



# Operation Manual

**Calantic™**  
Marketplace

**Calantic™**  
My Apps

THIS PAGE INTENTIONALLY LEFT BLANK

# Table of Contents

<b>1 Introduction .....</b>	<b>5</b>
1.1 About the Software .....	5
1.2 Intended Users .....	5
1.3 Disclaimers.....	5
1.4 Interoperability Requirements .....	6
1.5 Decommissioning and Disposal .....	6
1.6 Contraindications.....	6
1.7 Required Training .....	6
1.8 Contact.....	6
1.9 Catalog Numbers .....	6
<b>2 Creating an Account .....</b>	<b>7</b>
<b>3 Logging In.....</b>	<b>9</b>
<b>4 Calantic Marketplace and My Apps Home Page .....</b>	<b>10</b>
4.1 Main Menu.....	10
4.1.1 Filtering by Serviceline .....	11
4.1.2 Favoriting Products.....	11
4.1.3 “Sort By” Selector .....	12
4.1.4 Learn More .....	12
4.2 Products .....	12
4.2.1 Packages.....	12
4.2.2 Applications .....	13
4.3 Manage Apps.....	13
4.3.1 Dashboard.....	13
4.3.3 My Apps .....	17
4.4 Admin .....	19
4.4.1 Manage Users.....	19

**5 Cybersecurity .....22**

5.1 Cybersecurity Protection..... 22

5.2 Cybersecurity Protection - Technical Controls ..... 22

5.3 Cybersecurity Protection - Operational Controls..... 23

5.4 Cybersecurity Protection - Known Vulnerabilities..... 23

5.5 Cybersecurity Protection - Software Bill of Materials ..... 23

5.6 Information Security..... 23

5.7 Information Security - Operational Controls..... 24

5.8 Expected Security Environment and Security Control Provided by the Hospitals..... 24

5.9 Authentication and Authorization..... 25

5.10 External Interfaces and Interoperability ..... 25

**6 Glossary.....26**

**7 Licenses .....27**

# 1 Introduction

## 1.1 About the Software

The Calantic™ Marketplace and My Apps is part of the Calantic Digital Solution. The Calantic Digital Solutions encompasses multiple parts in addition to the Calantic Marketplace and My Apps:

- Calantic Viewer
- Calantic Cloud platform
- Calantic Edge Device

The Calantic Marketplace and My Apps provides customers, such as radiologists, access to review a curated set of clinical applications, such as AI-enabled solutions, that can help simplify and drive efficiencies throughout the radiology workflow and as part of a larger disease management strategy. Customers can browse for applications (apps) and packages on the Calantic Marketplace by specialty or vendor and purchase apps to integrate into their workflow. The Calantic Marketplace and My Apps allows Bayer representatives to configure the apps customers have purchased and track utilization and performance.

The Calantic Viewer is an image review software tool for exploration of the results of image post-processing applications (IPPAs), for example, those that automatically detect and size lung nodules. It is a zero-footprint (web-application) viewer designed to be operated as part of the radiologist's standard workflow. The Calantic Viewer displays results only as a viewing tool and is not intended for diagnosis. It is a support tool that provides relevant clinical data as a resource to the clinician. It is not intended to replace the clinician's review of the image or his or her clinical judgement.

The Calantic Cloud platform and the Calantic Edge Device are the backend infrastructure that enable the day-to-day running of the Calantic Marketplace and My Apps.

The Calantic Edge Device allows a seamless and secure interface of the Calantic Cloud platform with various applications. The Calantic Edge Device is a virtual machine (software) that is deployed at the customer site and acts as the router between the hospital systems and the AI applications.

## 1.2 Intended Users

Intended users of the Calantic Marketplace and My Apps are the radiologist administrators, or practice leaders, and practicing radiologists. For setup and configuration, other users of the Calantic Marketplace and My Apps include a hospital's IT administrators.

## 1.3 Disclaimers

This Operation Manual is intended for global markets. Feature and clinical application availability may vary by market or by configuration in the same market; contact your authorized Bayer representative for more information per the information listed in [1.8 Contact](#) of this manual.

Screen images in this manual are for illustration purposes only. Actual screens may vary.

## 1.4 Interoperability Requirements

The Calantic Marketplace and My Apps application runs on 64-bit web browsers including Chrome, Safari, Firefox, and Edge (current version and previous-to-current version).

If the Calantic Marketplace and My Apps is launched on an unsupported browser such as Internet Explorer, a blank screen (black) will be presented. Exit from the unsupported browser and launch the application on a supported browser.

## 1.5 Decommissioning and Disposal

In scenarios where decommissioning and disposal of application is required, contact an authorized Bayer representative or a designated site contact.

## 1.6 Contraindications

None known.

## 1.7 Required Training

The device is intended to be used by qualified healthcare professionals, administrators, and IT staff.

## 1.8 Contact

To provide feedback or request support, please use the contact form provided on <https://www.radiologysolutions.bayer.com/contact>.

Report any serious incident that has occurred in relation to this device to Bayer (<https://www.radiologysolutions.bayer.com/contact>) and to your local European competent authority (or, where applicable, to the appropriate regulatory authority of the country in which the incident has occurred).

## 1.9 Catalog Numbers

	Catalog Number
Calantic Cloud Platform	<b>CAL-CLOUD</b>
Calantic MyApps	<b>CAL-MYAPPS</b>
Calantic Platform	<b>CAL-PLATFORM</b>
Calantic Viewer (measurement enabled)	<b>CAL-VIEWER</b>
Calantic Viewer (measurement disabled)	<b>CAL-VIEWER-NO-M</b>
Calantic Edge Device	<b>CAL-EDGE</b>

## 2 Creating an Account

Before logging in and using the Calantic™ Marketplace and My Apps, a new user must first register and create an account.

1. Go to the Calantic Marketplace and My Apps Login page. Click **Sign up**.

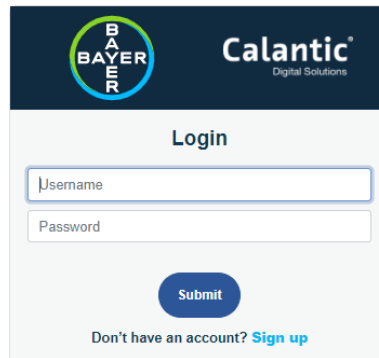
The image shows the Calantic login interface. At the top, there is a dark blue header with the Bayer logo on the left and the Calantic Digital Solutions logo on the right. Below the header, the word "Login" is centered. There are two input fields: "Username" and "Password". Below these fields is a blue "Submit" button. At the bottom, there is a link that says "Don't have an account? Sign up".

Figure 1: Sign up

2. The following screen will be displayed:

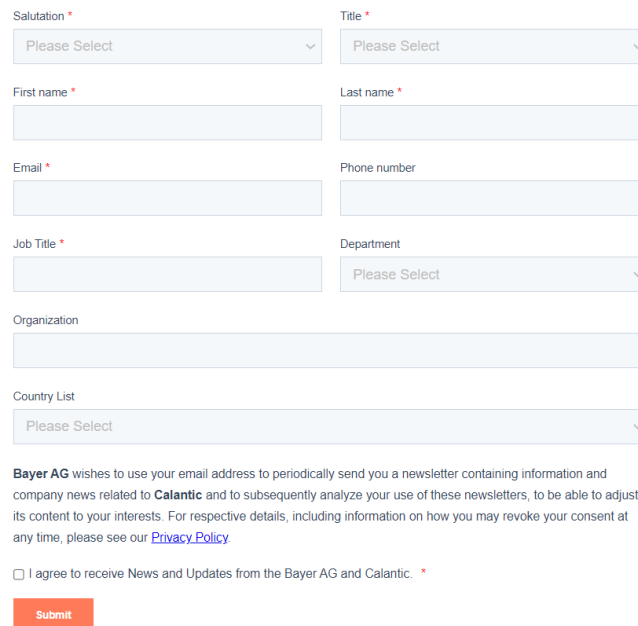
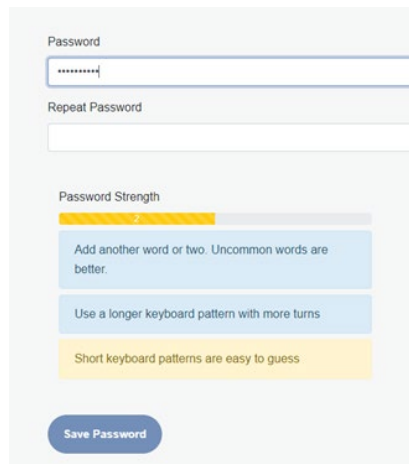
The image shows a sign-up form with the following fields: "Salutation" (dropdown menu), "Title" (dropdown menu), "First name" (text input), "Last name" (text input), "Email" (text input), "Phone number" (text input), "Job Title" (text input), "Department" (dropdown menu), "Organization" (text input), and "Country List" (dropdown menu). Below the form, there is a paragraph of text from Bayer AG regarding newsletter usage, followed by a checkbox labeled "I agree to receive News and Updates from the Bayer AG and Calantic." and a red "Submit" button.

Figure 2: Sign up screen

3. Enter appropriate information in the respective fields, then click **Submit**. The details will be sent to Bayer Support for creating the new user account. A registration confirmation email will be sent to the user's email address.

**Note:** Click the **Privacy Policy** link to view the privacy policy. Checking the box to accept the policy terms will enable the **Submit** button.

- Once the registration is processed by Bayer Support, the user will receive another email with their account details. The email will contain a username and a link to initialize the account. Click the link and the following screen will be displayed:



Password

\*\*\*\*\*

Repeat Password

Password Strength

2

Add another word or two. Uncommon words are better.

Use a longer keyboard pattern with more turns

Short keyboard patterns are easy to guess

Save Password

**Figure 3: First time login – Setting a password**

**Note:** The reset password link is valid for 60 minutes. After this time, the link is expired and the user should contact the Hospital IT Administrator.

- Enter the new password in the appropriate fields. The **Save Password** button will be enabled only when all criteria for the password are met. Click **Save Password**.

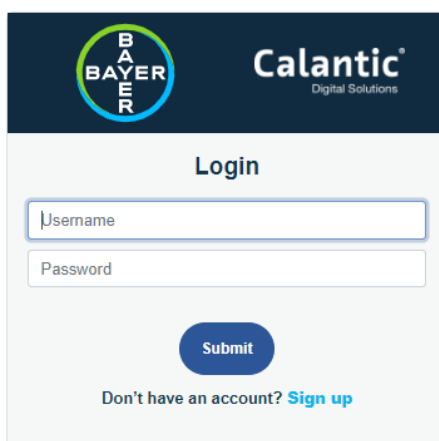
A message will be displayed to indicate that the password has been set successfully. Click **Return to Login**.

- Log in with the updated credentials.



### 3 Logging In

Enter the username and password on the Login screen, then click **Submit**.



The screenshot shows a login interface with a dark blue header. On the left is the Bayer logo, and on the right is the Calantic Digital Solutions logo. The main content area is light gray and titled 'Login'. It contains two white input fields with blue borders, labeled 'Username' and 'Password'. Below the fields is a blue oval button with the text 'Submit'. At the bottom of the form, there is a link that reads 'Don't have an account? Sign up'.

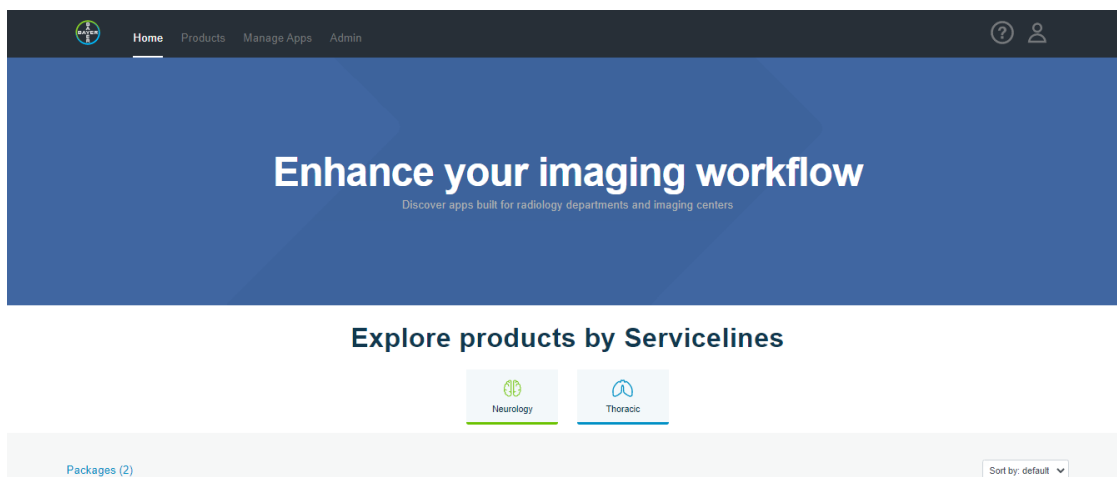
**Figure 4: Login Screen**

**Note:** A user has access to use functionalities per the default permissions.

**Note:** The application will automatically log out when user is inactive for one hour.

## 4 Calantic Marketplace and My Apps Home Page

After a successful login, the Calantic™ Marketplace and My Apps Home page will be displayed.



**Figure 5: Calantic Marketplace and My Apps Home Page**

The Home page presents a list of products in two sections: Packages and Applications. These products can be filtered using the filter icons under “Explore products by Servicelines.” (Refer to [4.1.1 Filtering by Serviceline.](#))

The left-side bottom of the Home page displays a “Featured Application” area. Click the **Learn More** button in this area to view details for the featured application. The right-side bottom of the Home page displays a video link of the featured application. Click the link to open an informational video of the application.

### 4.1 Main Menu

The Main Menu is accessible from all pages of the Calantic Marketplace and My Apps application. It allows for navigation between different tabs ([Figure 6](#), Item 1): Home, Products, Manage Apps, and Admin. The Admin tab is only available for users with applicable access rights. By default, the landing page after logging into the application is the Home screen.



**Figure 6: Main Menu**

In addition to the tabs, there are two icons on the Main Menu:

- **Knowledge Library** icon ([Figure 6](#), Item 2): Click to access the Knowledge Library.

The Knowledge Library page displays tiles for various document resources like FAQ's, Operation Manuals, etc. Click **View** on the respective tile to view/download the document.

- **User Access** icon (Figure 6, Item 3): Click to display these options:
  - The username of the currently logged in user.
  - **Reset Password:** Click to send an email to the registered ID of the logged in user for password reset.
  - **Privacy Policy:** Click to view the privacy statement.
  - **Sign out:** Click to sign out of the application.

### 4.1.1 Filtering by Serviceline

The icons under “Explore products by Servicelines” can be used to filter the displayed products.

All filter icons have a toggle functionality; this allows a user to enable/disable (select/deselect) the respective filter. When all filters are disabled, all products will be displayed.

## Explore products by Servicelines



Figure 7: Explore products by Servicelines

### 4.1.2 Favoriting Products

Packages and applications can be marked as Favorite. This feature allows for quick return to the favorited product(s). To mark a product as a Favorite, click on the **Favorite** (heart) icon.

The **Favorite** icon has a toggle functionality that allows the user to favorite (select) or unfavorite (deselect) the product. When a product is favorited/selected, the heart will be solid blue. When a product is not favorited, the heart will be a gray outline.

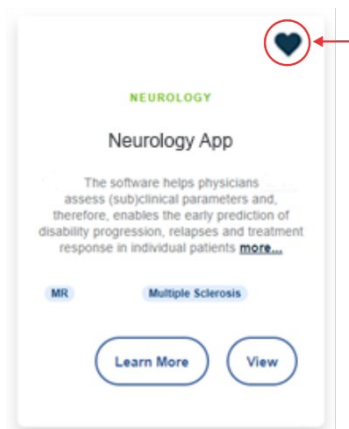


Figure 8: Marking a Favorite

### 4.1.3 “Sort By” Selector

The **Sort by** drop-down menu allows users to sort products by A to Z (alphabetical order of package or application name) or by Favorite. The default sorting is A to Z.

Selecting **Favorite** will list favorited products first, followed by the unfavored products.

Sorting options are selected and applied to the Packages section and Applications section individually. Packages and applications can also be sorted on the Products page (refer to [4.2 Products](#)).

### 4.1.4 Learn More

A **Learn More** button is available on each product tile. The Learn More page displays more information including:

- Package or application description
- Package or application title
- Package or application marked as Favorite or not
- Tags associated with the package or application

Click **Learn More** to re-direct to a page that provides specific information about the respective package or application. It also displays videos related to use of the respective application and allows users to view testimonials.

Click **Request Quote** to open a new window with a form that, once submitted, will send a request to Bayer for more information or a quote on the respective package or application.

## 4.2 Products

The Products tab of the application consists of two sub-tabs: Packages and Applications. The landing page of the Products tab is the Packages sub-tab.

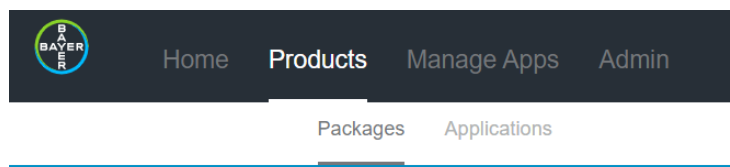


Figure 9: Products Tab – Packages and Applications

### 4.2.1 Packages

The Packages sub-tab displays tiles of all available packages.

Each product tile displays the logo of the company supplying the product (if available), the Serviceline (e.g., Pulmonology, Neurology etc.), the name of the product, a description and offerings of the product, and tags for identifying the packages.

For details on the Sort by drop-down menu function, refer to [4.1.3 “Sort By” Selector](#).

## 4.2.2 Applications

The Applications sub-tab displays tiles of all available applications.

Each product tile displays the logo of the company supplying the product (if available), the Serviceline (e.g., Pulmonology, Neurology etc.), the name of the product, a description and offerings of the product, and tags for identifying the applications.

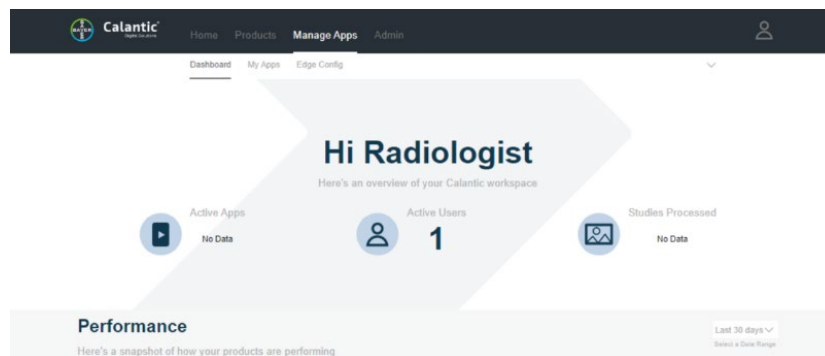
For details on the Sort by drop-down menu function, refer to [4.1.3 "Sort By" Selector](#).

## 4.3 Manage Apps

The Manage Apps tab of the Calantic Marketplace and My Apps consists of three sub-tabs: Dashboard, My Apps, and Edge Config. The landing page of the Manage Apps tab is the Dashboard sub-tab.

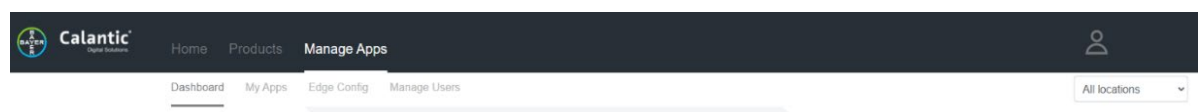
### 4.3.1 Dashboard

The following image displays the Dashboard sub-tab of the Manage Apps tab. The Dashboard summarizes data across all applications.



**Figure 10: Manage Apps - Dashboard**

**Note:** The Manage Users sub-tab will be visible only for users with the RadiologistAdmin role.



From the Manage Users sub-tab, a RadiologistAdmin can manage users and select one or all locations from which to view the dashboard data from the drop-down menu. Refer to [4.4.1 Manage Users](#).

Each user has their own Dashboard that presents information related to their use of the system. The Dashboard page allows the user to view performance information in relation to the products that the institution has subscribed to and the use of those products.

If a user is logged in as a RadiologistAdmin, the Dashboard will display KPI tickers showing statistics for Active Apps, Active Users, and Studies Processed (YTD).

## 4.3.2 Performance

On the Dashboard sub-tab, the Performance section presents summary information about the products and their usage pattern and performance.

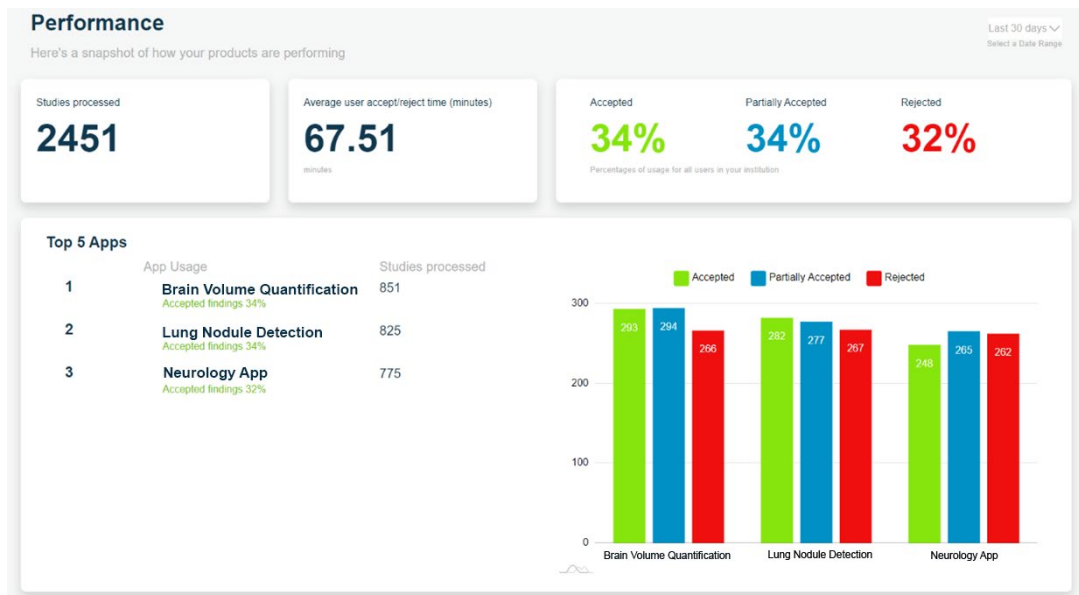


Figure 11: Performance

### Date Range Selector

The Date Range drop-down menu allows users to view all the telemetry metrics across a variety of time periods. From the drop-down menu, select appropriate date range.

### Calantic Edge Device Selector

**Note:** This drop-down menu will be visible only for users with a RadiologistAdmin role.

The Edge Device Range drop-down menu allows the user to view the telemetry metrics for either a single Calantic Edge Device or all Calantic Edge Devices associated with that RadiologistAdmin.

### Studies Processed

This tile shows the total number of studies which have been processed by all of the applications. The count for studies processed increases for every study detected by the Calantic Edge Device.

### Average Time to Review AI Results (Minutes)

This tile shows the average user accept/reject time (in minutes) between opening a study in the Calantic Viewer and marking it as accepted, partially accepted, or rejected.

## Accepted, Partially Accepted, Rejected Findings

This section shows the percentage rate of acceptance, partial acceptance, or rejection by radiologists for the findings generated by all the clinical applications.

A finding includes clinical information (i.e., images and imaging measurements) acquired by the operation of the clinical application(s). For instance, a clinical application may identify three lesions on a CT scan and each lesion would be deemed a finding. The type of finding may vary by clinical application depending on the applications' output.



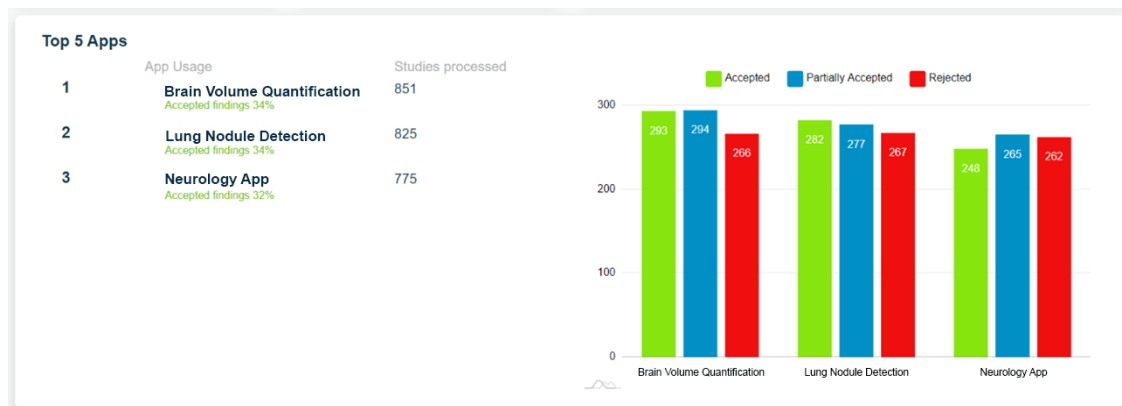
**Figure 12: Accepted, Partially Accepted, Rejected Findings**

The Calantic Viewer allows radiologists to review the findings and to accept or reject the findings. In some cases, a radiologist may agree with some of a finding, but not the complete finding (partially accept).

## Top 5 Apps

This section displays a tabulated list of metrics. It displays a list of the top 5 applications:

1. Number of studies processed by the application
2. Percentage rate of accepted/partially accepted/rejected findings (illustrated by the bar graph)



**Figure 13: Top 5 Apps**

## Tab: Average Time to Review AI Results (minutes)

This graph displays the average time (in minutes) to review AI results from clinical applications for each application over a selected date range.



Figure 14: Average time to review AI results

## Tab: Findings

The Findings tab provides performance information for the products that the institution has subscribed to. It consists of three sub-tabs: Accepted, Partially Accepted, and Rejected. Within each sub-tab is a graph displaying the number of accepted, partially accepted, or rejected findings over a selected date range.

**Note:** In line with the Accepted/Partially Accepted/Rejected sub-tabs is a title that contains a list of the clinical applications for the findings. Should there be more than five applications available, the full list is visible within the tooltip, which is accessed via hovering over any location on the title (application title) itself.



Figure 15: Findings



### 4.3.3 My Apps

My Apps is a sub-tab of the Manage Apps tab. When viewing the tiles, it allows the user to select a specific application and view the data only for that application.

#### Selected Apps and Packages

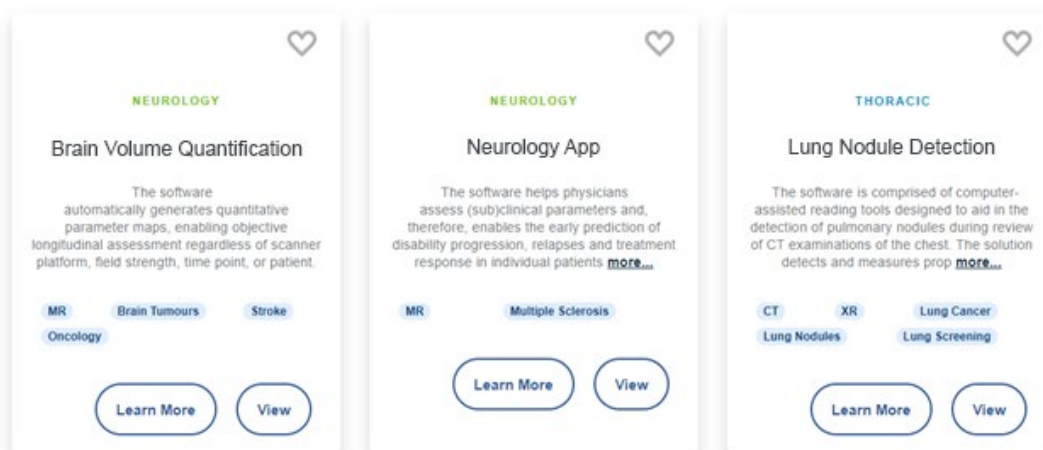


Figure 16: My Apps

Click **Learn More** to access the product details. For more information, refer to [4.1.4 Learn More](#).

Click **View** to access detailed performance information about the respective application. Click **View** to open the Performance, Configuration, and App Detail tabs.

### Performance Tab

Telemetry data is recorded for each application in the system and this information can be viewed by clicking the **View** button on the application summary tile. This will display data related to the selected application. The following page will be displayed:

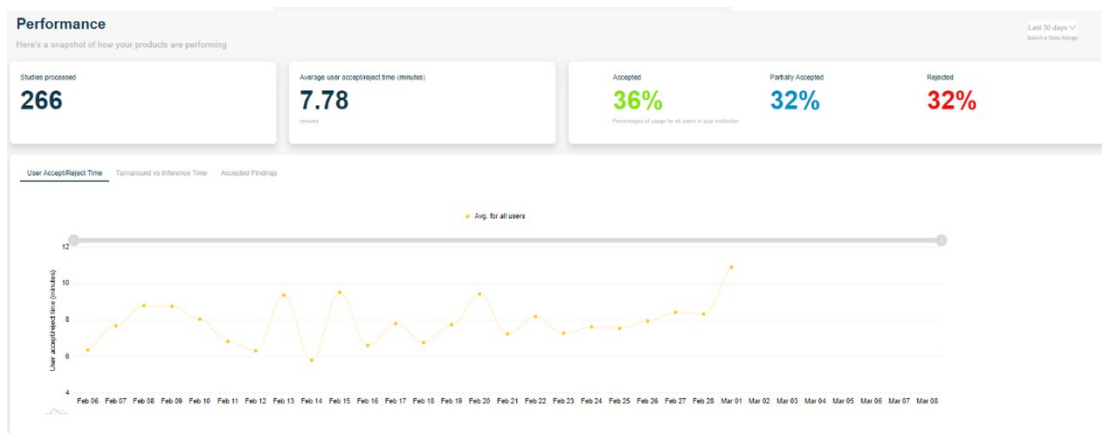


Figure 17: Clinical Application Detail

The telemetry summary sections show the number of studies processed, the average user accept/reject time in minutes, and the accepted, partially accepted, and rejected findings percentages for all users in the institution.

There are three sub-tabs that display respective graphs:

1. Average Time to View AI results
2. Total Time to View AI results vs Availability of AI results
3. Findings

### Average Time to Review AI Results Graph

This graph displays User Accept/Reject Time and allows the user to compare times with the average accept/reject times of peers (other radiologists in the institution). It also displays the average for all users (radiologists).

**Note:** For a Radiologist user role, other users will be anonymous. Only a user with RadiologistAdmin role will be able to compare non-anonymous usage.

### Total Time to Review AI Results vs. Availability of AI Results Graph

This graph displays the total time to review AI results vs. availability of AI results time (in minutes) for the selected application:

- **Total time to review AI results:** The total processing time (in minutes) of a study by an application, from when the application started processing to when it returns with results.
- **Availability of AI results:** The total processing time (in minutes) from when the Calantic Edge Device detected a study for processing to when the results were sent to the PACS or reporting system. This time will therefore be inclusive of the inference time and the time spent by a user using the Calantic Viewer (if applicable).

Hovering over any of the points will display total time to review AI results and availability of AI results time.

### Findings Graph

The Findings graph displays the number of times clinical findings have been accepted, partially accepted, or rejected using the Calantic Viewer.

It also allows to compare statistics with the other users from the same institution.

**Note:** For a Radiologist user role, other users will be anonymous. Only a user with RadiologistAdmin role will be able to compare non-anonymous usage.

### Triage Only Applications

Triage only applications do not offer accept/reject workflow. A triage only application only has one Performance tab and one Average AI processing time graph.



**Figure 18: Triage Only Application – Average AI Processing Time**

## Configuration Tab

The Configuration tab displays configuration details of the respective application.

## App Detail Tab

The App Detail tab will land on the Learn More page of the respective application. For more information, refer to [4.1.4 Learn More](#).

## 4.4 Admin

The Admin tab of the application consists of two sub-tabs: Manage Institutions and Manage Users. The landing page of the Admin tab is the Manage Institutions sub-tab.

### 4.4.1 Manage Users

Manage Users sub-tab allows admins to create, edit, and delete users. There are two types of admin roles:

1. Admin
2. RadiologistAdmin

Both admin roles have access to the Manage Users sub-tab, where users can be created, edited, or deleted.

Manage Users

+ Add User

18 Active Users









NAME	EMAIL	INSTITUTION NAME	BAYER SAP CUSTOMER NUMBER	ROLE	EDIT	REMOVE
demo demo	<a href="mailto:jhon.quinteros+4@unosquare.com">jhon.quinteros+4@unosquare.com</a>	Dev Hospital 2	eu-dev-calantic-edge-vm-1-8-2	MarketplaceOnly	1 	 2
Dev Edge 2 User 2	<a href="mailto:dev-edge-2@blackford.com">dev-edge-2@blackford.com</a>	Dev Hospital 2	eu-dev-calantic-edge-vm-1-8-2	Radiologist		
Automation Test	<a href="mailto:atul.singh@quantiphi.com">atul.singh@quantiphi.com</a>	Dev Hospital 2	eu-dev-calantic-edge-vm-1-8-2	Radiologist		
dev edge User	<a href="mailto:dev-edge-3@blackford.com">dev-edge-3@blackford.com</a>	Dev Hospital 2	eu-dev-calantic-edge-vm-1-8-2	Admin		

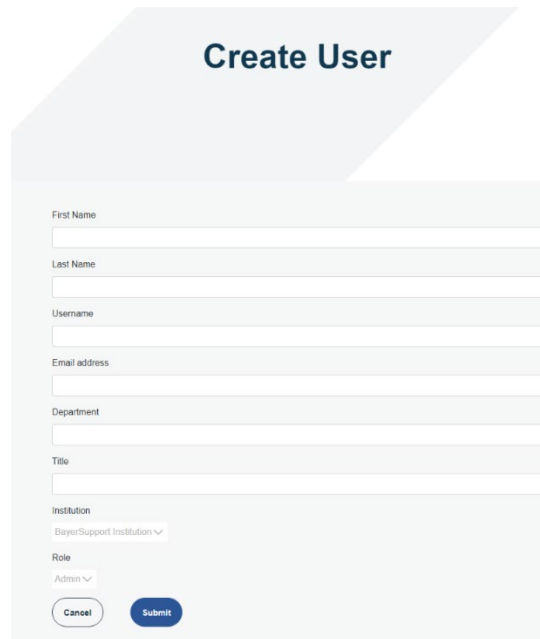
Figure 19: Manage Users Sub-tab

1	Edit	2	Remove
---	------	---	--------

## Create User

Only admin users can create new users.

1. To add a new user, click **Add User**.
2. Enter the required information on the Create User page. All of the fields are validated and invalid fields are flagged with validation messages. The Institution field is automatically populated and assumed to be the same as that of the admin user creating the new user.



The screenshot shows a 'Create User' form with the following fields and controls:

- First Name**: Text input field.
- Last Name**: Text input field.
- Username**: Text input field.
- Email address**: Text input field.
- Department**: Text input field.
- Title**: Text input field.
- Institution**: Dropdown menu with 'BayerSupport Institution' selected.
- Role**: Dropdown menu with 'Admin' selected.
- Buttons**: 'Cancel' and 'Submit' buttons at the bottom.

**Figure 20: Create User**

3. Click the **Submit** button to submit the details and create the user.
4. After the user has been created, an email with a password reset link will be sent to the registered email address of the user.

**Note:** The reset password link is valid for 30 minutes. After this time, the link is expired and a new password reset link will be required. A new link can be resent from the Edit User page.

## Edit User

1. To edit an existing user, click the **Edit** icon (Figure 19, Item 1) in the row of the user to be edited.

**Figure 21: Edit User page**

2. Edit the user information as needed. The process for editing a user is similar to that for creating a user – all fields are validated and invalid fields are flagged with validation messages.
3. To exit the Edit User page without saving changes, click **Cancel**.
4. Once all required fields have been edited, click **Update**. A message will be displayed to indicate that the update was successful.

## Reset Password

The password of an existing user can be reset from the Edit User page.

To reset the password, click the **Reset Password** button on the Edit User page. An email with a password reset link will be sent to the registered email address of that user.

**Note:** The reset password link is valid for 30 minutes. After this time, the link is expired and the user should contact the administrator.

## Delete User

To delete an existing user, click on the **Remove** icon (Figure 19, Item 2) beside the user to be deleted. The application will prompt a message to confirm the Delete operation.

Click **Yes** to confirm user deletion and return to the Manage Users screen. Click **No** to return to the Manage Users screen without deleting the user.

## 5 Cybersecurity

The Calantic™ Digital Solutions, including the Calantic Marketplace and My Apps, contains software and is subject to cybersecurity concerns. Depending on the licensed software features, it may also contain data that is subject to privacy laws or is of a sensitive nature which should be protected. This section covers the following aspects of cybersecurity and information security:

- Cybersecurity Protection
- Information Security
- Expected Security Environment
- External Interfaces and Interoperability
- Decommissioning of Equipment

**Note:** In the event of a suspected or known cybersecurity breach, or for any cybersecurity related questions, please contact Bayer Service at [radiology.bayer.com/contact](https://radiology.bayer.com/contact).

### 5.1 Cybersecurity Protection

The design of the system includes technical measures that secure it against attackers. These are intended to protect the system against current and future threats. Calantic software updates are available periodically for the Calantic Solution and it is the client's responsibility to install security updates on the Calantic Edge Device. In addition, Bayer has a cloud service agreement with Google for security software updates. New cyber-attacks may require new technical controls. Bayer's cyber response policy ensures that software updates are developed and released when high-risk threats arise. Both planned updates and unplanned software patches are made available to authorized Bayer representatives for immediate deployment.

Google is responsible for updating Google managed services and the underlying infrastructure. Bayer is responsible for managing the VMs, containers, and Bayer-designed applications. Due to technical training requirements on device calibration and its operational checkout, Bayer is responsible for obtaining software or firmware and updating for Google Cloud Platform. Bayer is responsible for ensuring security maintenance with Google. Please refer to [5.8 Expected Security Environment and Security Control Provided by the Hospitals](#).

### 5.2 Cybersecurity Protection - Technical Controls

The technical controls for cybersecurity are built into the design of the system and do not require any user configuration. They include:

- Built-in authentication and secure tokenization of the user when accessing the Marketplace application.
- Built-in encryption in transit using SSH and TLS; encryption at rest in Google Cloud Platform using AES 256.
- Continuous real time code and vulnerability scanning of containers, code (Static Analysis/SAST) and VM vulnerability scanning using daily updated scan engines.
- Container hashing to ensure supply chain integrity.
- Third Party Penetration testing to include API fuzzing.
- Google Cloud Platform (GCP) Virtual Private Cloud (VPC) Firewalls.
- Enterprise Azure AD integration for development environment which require Two Factor Authentication (2FA); restricted production code repository access.
- Robust threat modeling of all attack surfaces to ensure attack surface are not exposed.
- Modern web application firewall (Google Cloud Platform Cloud Armor) is used to prevent advanced attacks.

- Google Cloud Platform Security Command Center for threat detections.
- Third party Compliance tools for near real time gap detection and management.
- Viewer Cross Site Scripting XSS Attacks (and other web/software attacks) prevention using built in mitigation using JSX library for React.
- Audit logs are maintained and reviewed on a periodic basis.
- Databases are restricted by VPC firewall, require authentication and credentials are hashed and salted to provide a layer security approach.
- Masking/anonymization of patient data on transmission to external systems is provided as an option.
- Unique SSH keys used on The Edge Device for each client.
- Current Cloud Identity Access Management (IAM) solution.

### 5.3 Cybersecurity Protection - Operational Controls

The system software must be maintained and be kept up to date to ensure that it remains secure in the face of new cyber threats. For the Calantic Marketplace application, the customer is responsible for the security. This includes patching, anti-virus, firewall, VM host security, network security, and Intrusion Prevention Systems or Intrusion Detection Systems (IPS/IDS). Bayer is responsible for updating the Calantic Marketplace application.

Bayer plans and releases one or more software updates per year which include cumulative security patches, and for the Calantic GCP instance Bayer plans to release software updates one or more times a year. Any new active cybersecurity threat that poses a risk to the operation of the system will trigger additional software releases to provide patches to the system.

During the subscription period, Bayer will provide maintenance and support services from a remote location via VirtualCare® Remote Support. Customers should plan for and accommodate system software updates, which may require on-site visits by an authorized Bayer representative or via VirtualCare® Remote Support. The system license includes software support including updates. Customers should plan for and accommodate system software updates.

### 5.4 Cybersecurity Protection - Known Vulnerabilities

Keeping system software up to date is part of the operational controls and will help to reduce security risks due to known vulnerabilities. The system software will undergo periodic penetration testing and fuzz testing by a third-party test lab as well as automated vulnerability scanning. A full listing of all CVEs is available on request.

### 5.5 Cybersecurity Protection - Software Bill of Materials

Software Bill of Materials are available on request.

### 5.6 Information Security

The system contains information that may be either considered sensitive (e.g., network IP addresses), potentially governed by privacy laws (e.g., patient names), or which should be protected from access or accidental changes (e.g., protocols, product configuration). Information security depends on both technical controls embodied in the design of the system and operational controls which are the responsibility of the user to configure. Information in the Google Cloud Platform and the Calantic on-premises components is protected by the following:

- All data on Google Cloud is automatically encrypted in transit and at rest within Google Cloud. GCP uses AES 256 for data at rest and TLS 1.2 for data in transit.

- Data transmitted to GCP is encryption in transit using SSH and TLS.
- Masking/pseudo-anonymization of patient data on transmission to external systems is provided as an option in the Calantic Edge Device.
- The Viewer can display ePHI but only after a user authentication and authorization.
- The Viewer uses TLS to encrypt ePHI and does not store ePHI in cache.

## 5.7 Information Security - Operational Controls

The system, as part of normal use, makes information available through a variety of means. The Marketplace application requires authentication prior to granting access.

The following operational controls are provided to allow the product to be configured to close the above listed information security access paths:

- VirtualCare environment is ISO/IEC 27001:2013 compliant, requires a username and password, and encrypts all connections via TLS.
- The Marketplace application access is controlled by authentication and authorization, established by a TLS connection for data transmission.

## 5.8 Expected Security Environment and Security Control Provided by the Hospitals

Healthcare ecosystem stakeholders share responsibility for protecting patients and safeguarding data. As a healthcare device and solutions manufacturer, Bayer invests in infrastructure and developing policies and procedures that support evolving cybersecurity requirements and industry best-practices. At end user sites, cybersecurity protection and defense against the latest attack is strengthened through proper maintenance of networks and environments in which medical products and solutions are deployed. Hospital networks that are monitored and patched quickly provide the first line of defense for deployed medical solutions.

System owners must explicitly request that an authorized Bayer representative create the first user account on their behalf. After that point, the system owner is responsible for managing their own set user accounts.

As such, the customer is responsible for providing and securing the Edge Device VM, OS, and hospital network per their hospital policies to ensure further mitigations. It is the customer's responsibility to actively monitor security events that pertain to the Edge Device and surrounding network environment. In addition to keeping the system software updated, the following additional operational controls are suggested:

- Limit physical access to the Calantic Edge Device system as much as possible.
- Customers employ best security practice security measures (refer NIST 800-53 and NIST CSF) on their own network and their own virtual environments, especially around the Calantic Edge Device hosted in their data center. In addition, if the option to use a browser is used to connect to the Calantic Marketplace and My Apps, follow browser and OS best security practices.
- Snapshots/backups of the Calantic Edge Device are strongly suggested to be done by the customer.
- Encryption to internal resources, like PACS, is not enabled by default but can be enabled by the client.
- Antivirus, advanced endpoint detection, software security patches, and security configurations are not installed by default but can be installed and monitored by the client
- Physical access to the Calantic Viewer and Edge Device should not be in public spaces nor where non-staff people are unsupervised. Use of a privacy screen is advised.
- Rooms are secured when staff are not present.



- Periodic inspection and maintenance of equipment is performed.
- Enable encryption, when possible, for any connection to the client environment. For example, RIS and PACS.
- Install, configure, and thoroughly test application whitelisting also known as AppLocker to prevent malicious code execution.
- Enable disk encryption on the VM OS and ensure strong key management practices are in place.
- Client can run vulnerability scans on the VM only in their data center and are responsible for those remediations.
- Proper placement in the client's datacenter virtual environment should be considered since the VM interfaces and works with ePHI.
- Monitoring of application security events is strongly encouraged. Logs are in a standard format, comma-separated format (CSV) and are located at Drive:\Calantic Edge\Blackford Platform\BlackfordPlatformAudit.log for Security Information and Event Management (SIEM) ingestion via the client's log collector infrastructure.
- In the event that a customer detects a cyber signal event on the Calantic Edge Device and/or Calantic Marketplace and My Apps, it is strongly recommended that the customer stops using the product, follows institution best practices for incidence response, and notifies their authorized Bayer representative promptly.

## 5.9 Authentication and Authorization

The Marketplace application requires authentication for all roles.

If a user forgets their password, Bayer Support can assist as needed.

## 5.10 External Interfaces and Interoperability

The Calantic Solution has limited exposure to external interfaces. All interfaces were evaluated in the threat model as attack surfaces. They are:

- Connection to RIS system(s)
- Connection to PACS system(s)
- API Gateway for service-to-service connections
- Browser access to the Calantic Marketplace and My Apps
- VirtualCare (Bayer reports support access via a secure internet connection)
- Bayer GitLab access
- Worklist access
- Reporting access

## 6 Glossary

AES	Advanced Encryption Standard
API	Application Programming Interface
API SDK	Application Programmable Interface Software Development Kit
CVE	Common Vulnerabilities and Exposures
ePHI	Electronic Protected Health Information
IDS	Intrusion Detection System
IE	Internet Explorer
IEC	International Electrotechnical Commission
IPPA	Image Post-Processing Applications
IPS	Intrusion Prevention System
ISO	International Organization for Standardization
JSX	JavaScript XML
KPI	Key Performance Indicator
OS	Operating System
PACS	Picture Archiving and Communications System
PHI	Protected Health Information
RIS	Radiology Information System
SAST	Static application security testing
SSH	Secure Shell
Telemetry	Usage and diagnostic data captured from the Calantic Edge Device and user interactions; the data is emitted by the Calantic Edge Device during processing activities
TLS	Transport Layer Security
TM	Trademark
VM	Virtual Machine
YTD	Year-to-Date

## 7 Licenses

The following third-party software is included as part of the Calantic Marketplace and My Apps and the license terms for such software are outlined below.

### MailKit

MIT License

Copyright © 2013-2021 .NET Foundation and Contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

### Serilog

Apache License

Version 2.0, January 2004 <http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this documents.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License. "Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind byname) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

## 2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

## 3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including across-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

## 4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License.

You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License. You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

### 5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

### 6. Trademarks.

This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

### 7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

### 8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

### 9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [Yiyi] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## Swashbuckle

Copyright © 2013, Richard Morris

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE

© 2021 GitHub, Inc.

## MediatR

Apache License

Version 2.0, January 2004  
<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or

indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.



To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## Microsoft ASPNETCore

The MIT License (MIT)

Copyright © .NET Foundation and Contributors

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## NUnit

Copyright © 2021 Charlie Poole, Rob Prouse

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## Babel

Copyright © 2013-2021 by the Babel Team, see AUTHORS for more information.  
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## Font Awesome

### Font Awesome Free License

Font Awesome Free is free, open source, and GPL friendly. You can use it for commercial projects, open source projects, or really almost whatever you want.

Full Font Awesome Free license: <https://fontawesome.com/license/free>.

# Icons: CC BY 4.0 License (<https://creativecommons.org/licenses/by/4.0/>)

In the Font Awesome Free download, the CC BY 4.0 license applies to all icons packaged as SVG and JS file types.

# Fonts: SIL OFL 1.1 License (<https://scripts.sil.org/OFL>)

In the Font Awesome Free download, the SIL OFL license applies to all icons packaged as web and desktop font files.

# Code: MIT License (<https://opensource.org/licenses/MIT>)

In the Font Awesome Free download, the MIT license applies to all non-font and non-icon files.

### # Attribution

Attribution is required by MIT, SIL OFL, and CC BY licenses. Downloaded Font Awesome Free files already contain embedded comments with sufficient attribution, so you shouldn't need to do anything additional when using these files normally.

We've kept attribution comments terse, so we ask that you do not actively work to remove them from files, especially code. They're a great way for folks to learn about Font Awesome.

### # Brand Icons

All brand icons are trademarks of their respective owners. The use of these trademarks does not indicate endorsement of the trademark holder by Font Awesome, nor vice versa. **\*\*Please do not use brand logos for any purpose except to represent the company, product, or service to which they refer.\*\***

## @Types

This project is licensed under the MIT license

Copyrights are respective of each contributor listed at the beginning of each definition file.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## Typescript ESLint

TypeScript ESLint

Originally extracted from:

TypeScript ESLint Parser

Copyright JS Foundation and other contributors, <https://js.foundation>

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



The MIT License (MIT)

Copyright © 2018-present, Yuxi (Evan) You

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## Bootstrap

The MIT License (MIT)

Copyright © 2011-2018 Twitter, Inc.

Copyright © 2011-2018 The Bootstrap Authors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## Clipboard Copy

MIT License

Copyright © 2019 Waseem Dahman

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## Cors

(The MIT License)

Copyright © 2013 Troy Goode <troygoode@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## ESLint

Copyright OpenJS Foundation and other contributors, <[www.openjsf.org](http://www.openjsf.org)>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE

## Jest

MIT License

Copyright © Facebook, Inc. and its affiliates.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## Pino

The MIT License (MIT)

Copyright © 2016-2019 Matteo Collina, David Mark Clements and the Pino contributors

Pino contributors listed at <https://github.com/pinojs/pino#the-team> and in the README file.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## SASS Loader

Copyright JS Foundation and other contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## Vue

The MIT License (MIT)

Copyright © 2013-present, Yuxi (Evan) You

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## Webpack

MIT License

Copyright © Christoph Werner <christoph@codepunkt.de>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## Yup

The MIT License (MIT)

Copyright © 2014 Jason Quense



Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

**THIS PAGE INTENTIONALLY LEFT BLANK**

Bayer reserves the right to modify the specifications and features describe herein or to discontinue any product or service identified in this publication at any time without prior notice or obligation. Please contact your authorized Bayer representative for the most current information.

The patient data that appear in this document are fictitious protected health information (PHI) and/or actual PHI from which all personally identifiable information (PII) have been removed or otherwise anonymized. No personally identifiable information is shown.

Bayer, the Bayer Cross, and Calantic are trademarks owned by and/or registered to Bayer in the U.S. and/or other countries. Other trademarks and company names mentioned herein are properties of their respective owners and are used herein solely for informational purposes. No relationship or endorsement should be inferred or implied.

© 2021-2023 Bayer. This material may not be reproduced, displayed, modified or distributed without the express prior written consent of Bayer.



Bayer 拜耳 バイエル باير Байер

To provide feedback or request support, please use the contact form provided on [radiology.bayer.com/contact](https://radiology.bayer.com/contact)

**Manufacturer**  
Bayer Medical Care Inc.  
1 Bayer Drive  
Indianola, PA 15051-0780  
U.S.A.  
Phone: +1-412-767-2400  
+1-800-633-7231  
Fax: +1-412-767-4120

**Authorized European Representative, Importer**  
Bayer Medical Care B.V.  
Avenue Céramique 27  
6221 KV Maastricht  
The Netherlands  
Phone: +31 43 3585600  
Fax: +31 43 3656598