Documentation

of

DIShA Web Application

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1.0 General Information

The General Information section explains, in general, the DIShA web application's overview and the sections of the documentation.

1.1 Web App Overview

NeoDIShA provides an interactive HCI dashboard for the store managers to set custom rules across processes or sub-processes on the shop floor (e.g. missing stocks, empty shelf alerts, planogram checks, etc.) and gets live updates of compliance violations, anomalies, and deviations of tracked KPIs from optimal benchmarks.

DIShA Web App empowers business execution with state-of-the-art image analysis technologies, delivering real-time and on-device reporting of the saturation of shelves with SKUs. It performs shelf-fullness monitoring, shelf-image-fullness tagging, and auditing to improve decision-making and business execution for retailers, distributors, and stakeholders across the globe.

This would give real-time visibility and control over the overall process metrics and provide deep root cause analysis using time and metadata-indexed events of violations (or non-compliances) occurring at a store-level, region-level, or country-level. Because of daily monitoring, the improvement in shelf fullness can be tracked, and a correlation with the increasing sales can be established.

1.2 Organization of the Documentation

The six sections of the documentation are as follows:

1. Accessing DIShA web app
2. Sign-In page
3. Dashboard page
4. Analysis page
5. Store page
6. User page

7. Documentation page
8. Contact Us page

- **Accessing DIShA web app** section explains how to visit the DIShA web app and access its information.

- **Sign-In Page** explains how to log in to the web app using the OTP received on your registered mobile number.

- **Side Navigation Bar** is used for navigating through the different pages of the DIShA web app

- **Dashboard page** is a visual display of all the data, and its primary intention is to provide information at-a-glance such as KPIs.

- **Analysis page** is where you can get brief information on the shelf-fullness of each and every store and you can thoroughly review all the captured images of a concerned store or all the stores if needed within any selected date period.

- **Store page** is to check and review the information regarding all the stores or to edit them. You can add new stores or you can delete an existing store here.

- **User page** is where you can access or edit necessary information of all the users of DIShA web app. New users can be added here or existing users can be deleted.

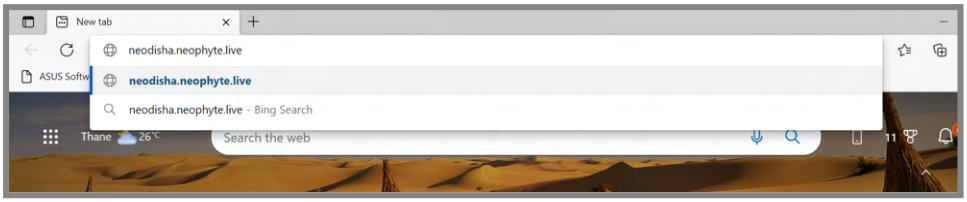
- **Documentation Page** is where you can find the material that is used to describe the objective of the DIShA web app as well as instructions explaining the procedure for using the web app.

- **Contact Us Page** is where you can connect with the developer team and share your feedback regarding the DIShA web app or if you face any kind of issue using the web app.

2.0 Accessing DIShA Web App

You can access the DIShA web app from the web browser of any desktop, laptop, or mobile.

➢ Head into any web browser on your PC, laptop, or mobile and enter the web portal address(neodisha.neophyte.live).



2.1 User Access Levels

There are three types of roles in the DIShA web application.

1. Admin
2. Manager
3. User

1. Admin

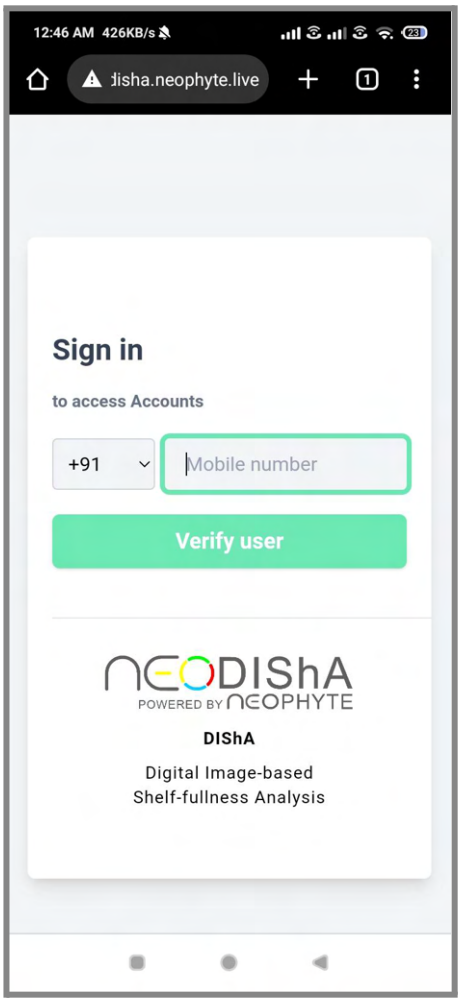
One who has ‘Admin’ access has, “add”, “edit” and “delete” options enabled on both the store page as well as in the user page. For the time being the admin access is solely assigned to the neophyte.

2. Manager
One with ‘Manager’ access can only view the necessary details in the store and user page but add, edit and delete options will be disabled for them.

3. User
One with the “user” role will not have access to the web app. They can only use the mobile application to capture and upload images of shelves.

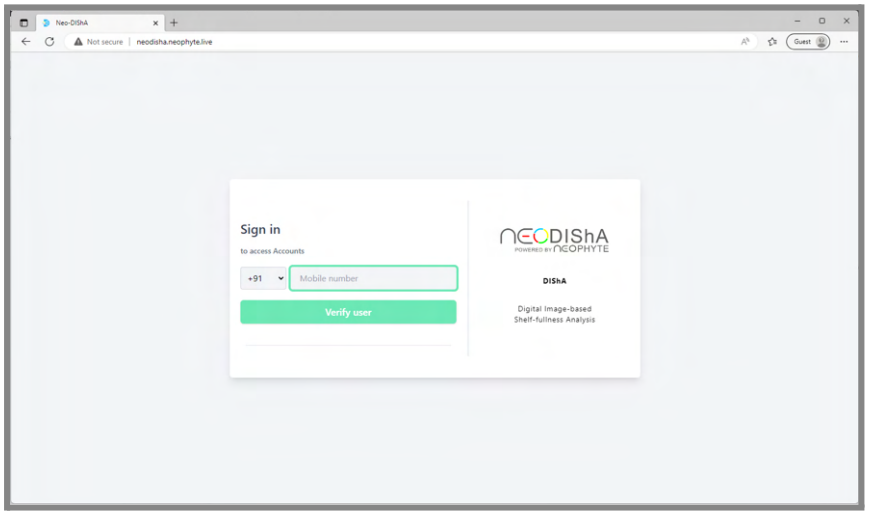
3.0 Sign-In Page

After entering the web portal address for DIShA, you will be brought to this “sign-in page”.



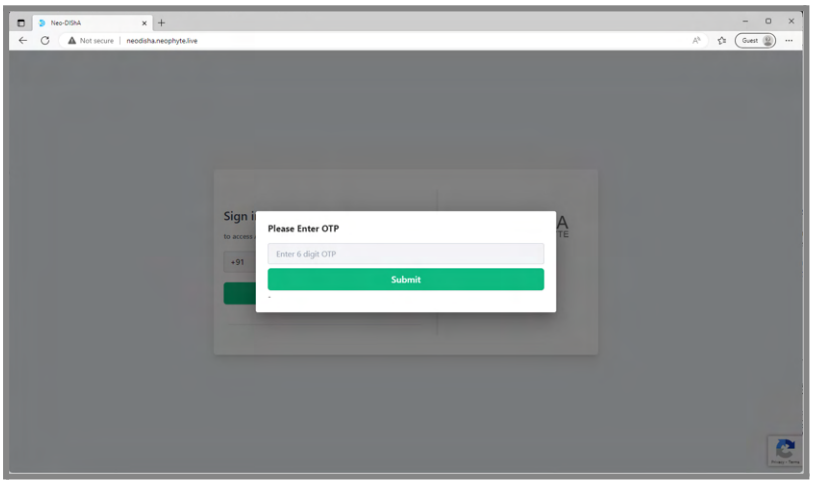
3.1 Mobile Number

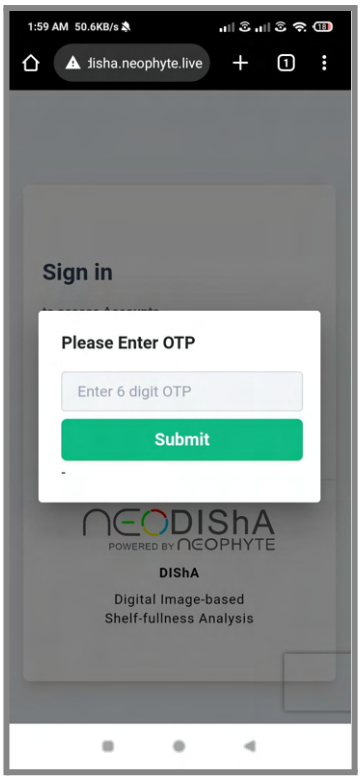
On the sign-in page, you have to enter your registered mobile number with DIShA web app and then click on the ‘Verify user’ button.



3.2 OTP (one-time password)

After clicking on the ‘Verify user’ button you will receive a 6-digit OTP on the same mobile number which you have entered. Enter the OTP here and then click on the ‘submit’ button.

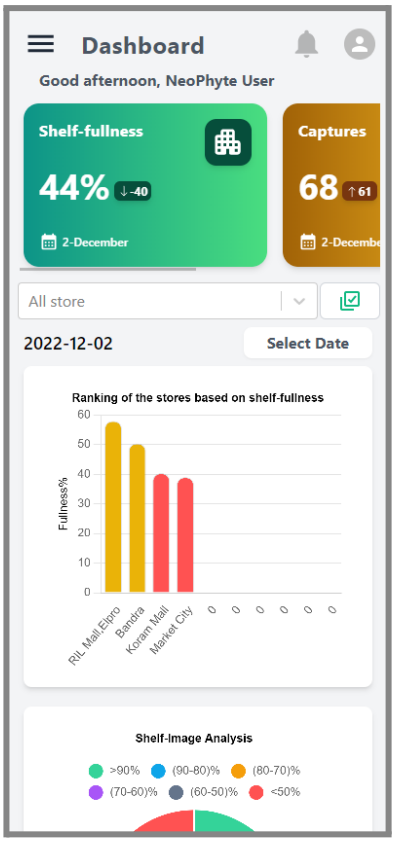




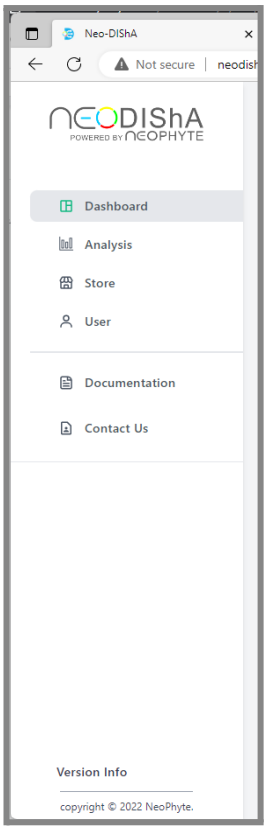
4.0 Dashboard Page

In the dashboard page below are the components that can be observed

1. Side navigation bar
2. Header
3. Key Performance Indicators
4. Doughnut chart
5. Bar chart
6. Store selector
7. Calendar
8. Capture progress indicator card

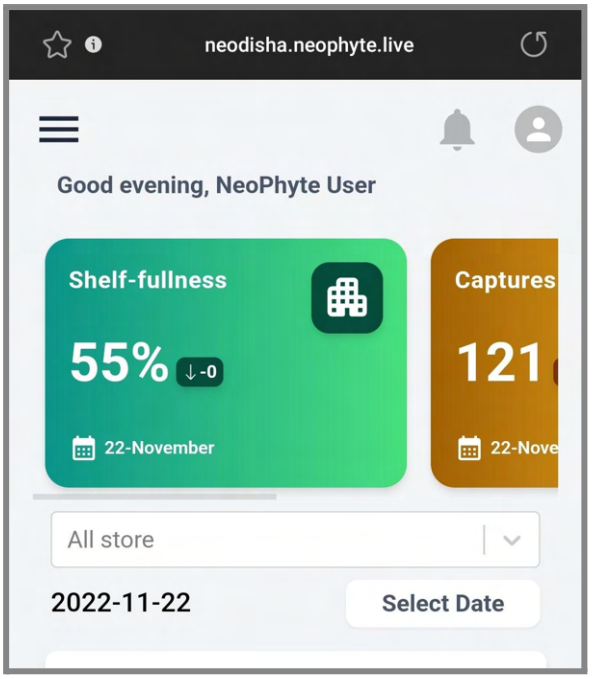


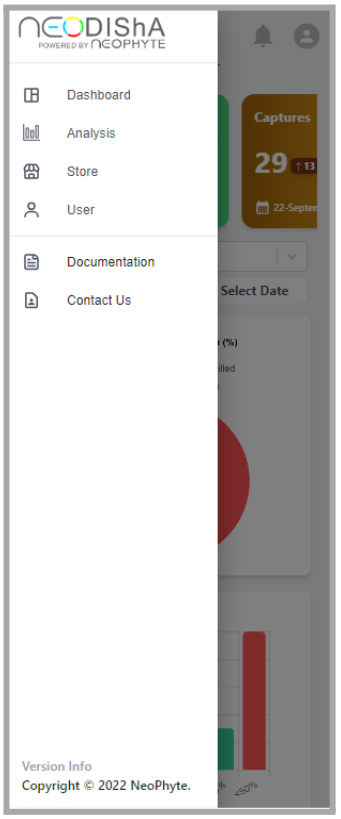
4.1 Side navigation bar



- On the desktop version of the DIShA web app, you can find the side navigation bar on the left side of every page with all the different page names listed on it. Using the side navigation bar, you can seamlessly browse through these pages of the DIShA web app.
- At the bottom of the navigation bar, you can also check the current version information of the DIShA web app.

- On the mobile version of the web app, the navigation bar is accessed by clicking on the three small horizontal lines icon ☰ in the top left corner.

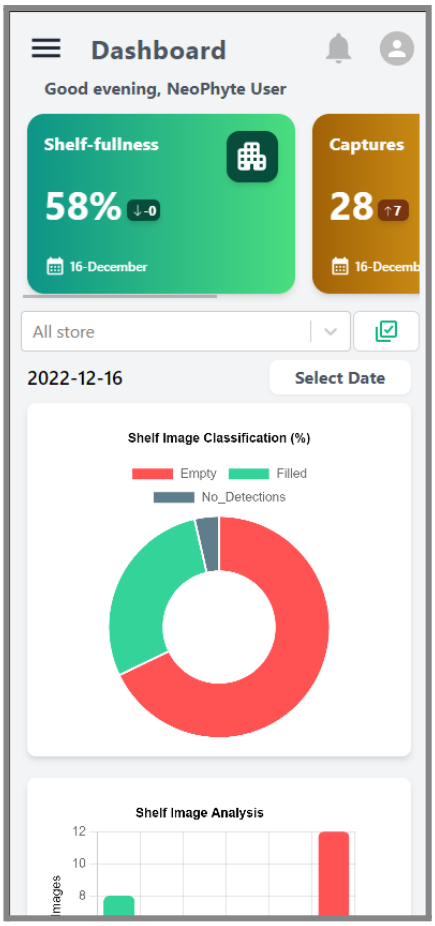




4.2 Header

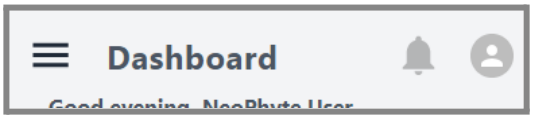
The ‘header’ in the desktop version consists of 3 components

1. *Page name*
2. *Notification*
3. *User profile*



4.2.1 Page name

In the header part, it shows the name of the page you are on for convenience both in the desktop version and the mobile version of the web app.

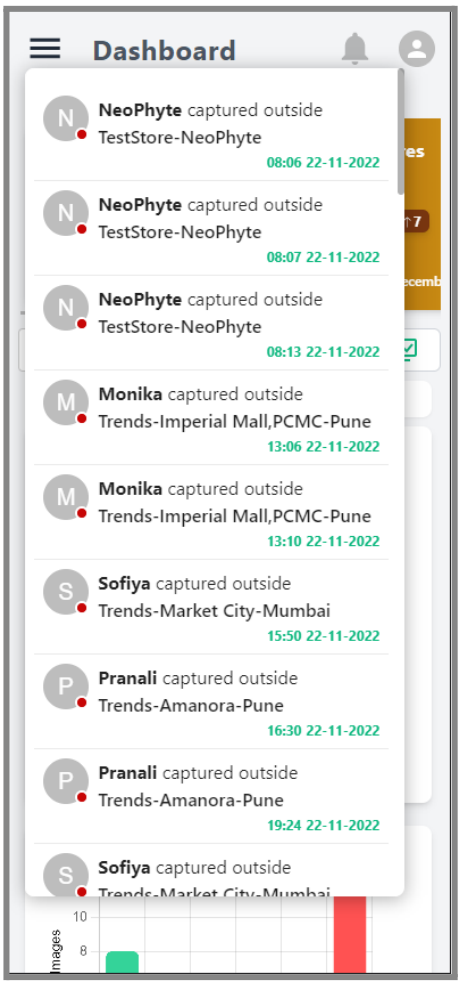


4.2.2 Notification

On the top right corner of the dashboard page, there is an icon button resembling a “bell”. This is where you get an alert notification if a user uploads shelf images using the DIShA mobile application outside of a 500-meter radius from the allocated store location.

The details you will receive in the notifications are:

➢ Name of the user
➢ Name of the store that he/she assigned with
➢ Date and time during the moment of the wrong captures

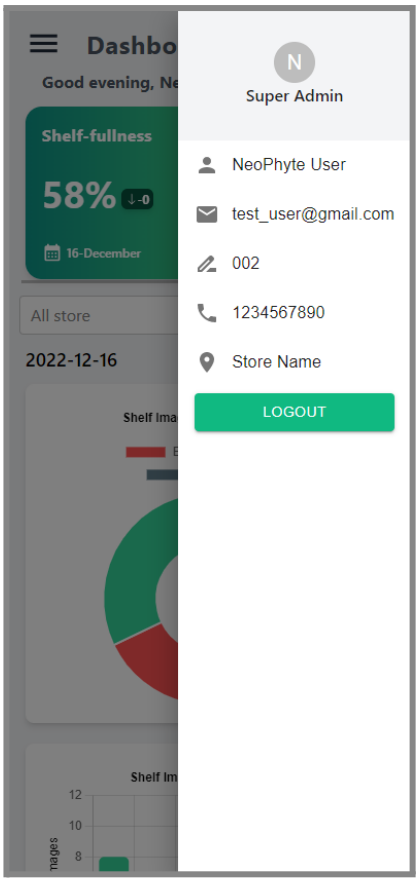


4.2.3 User Profile

You can find the user profile button in the top right corner beside the notification icon button. The user can log out from the DIShA web app by clicking on the logout button provided here.

Also, you can view all the details of the user here like

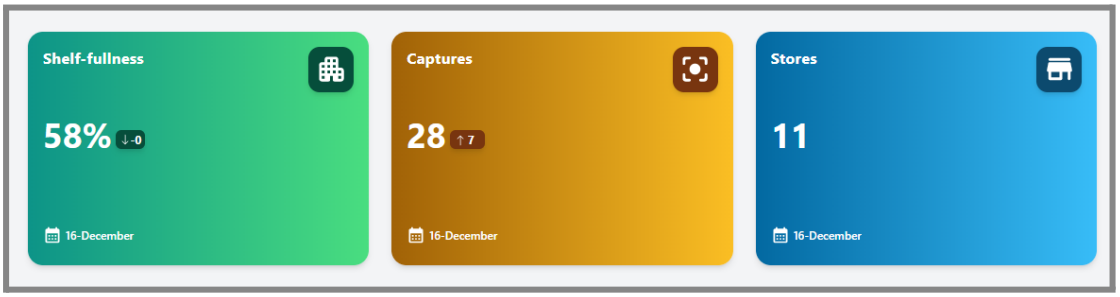
➢ Role of the user
➢ User name
➢ Email address
➢ User ID
➢ Mobile no.
➢ Location of the assigned store



4.3 Key performance indicators

On the dashboard page, there are mainly 3 key performance indicators (KPIs) that are represented in the form of 3 cards :

1. *Shelf-fullness*
2. *Captures*
3. *Stores*



4.3.1 Shelf-fullness

In this card, the value shown is the average percentage of shelf-fullness of all the stores or the selected store that you can choose from the provided store selector. Below this card, the current date or the chosen date is also displayed.

4.3.2 Captures

The capture card displays the total no. of images captured from all the stores by default or it can display the no. of images captured from any of the concerned stores if selected from the store selector.

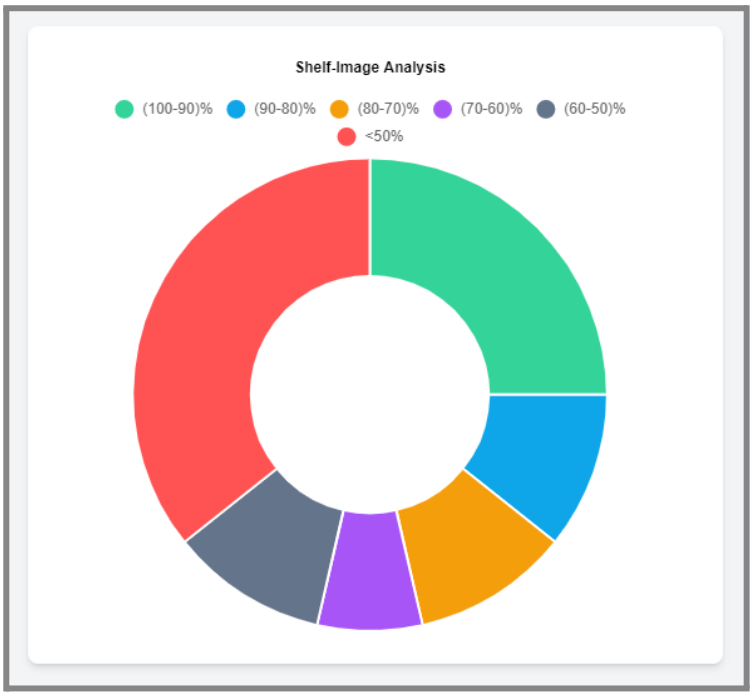
4.3.3 Stores

This last KPI card shows the total number of stores that are associated with the DIShA web app.

4.4 Donut Chart (Shelf image Analysis)

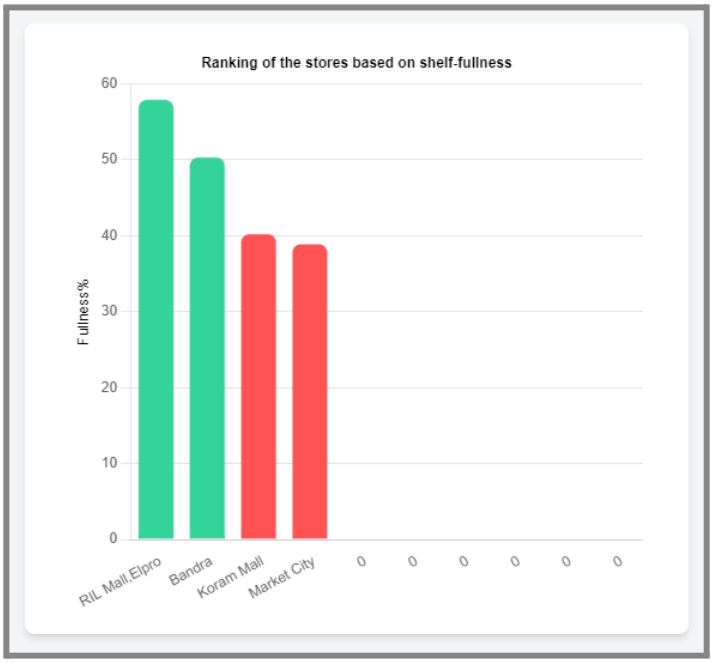
This donut chart on the dashboard page displays the number of images with their respective percentage of shelf-fullness that is divided into 6 categories:

1. (100-900)%
2. (90-80)%
3. (80-70)%
4. (70-60)%
5. (60-50)%
6. <50%



4.5 Bar Chart (Ranking of the stores based on shelf-fullness)

In this chart, the x-axis shows the names of the stores in decreasing order based on their total average percentage shelf-fullness of the store for that day.



In the y-axis, you can check the shelf-fullness percentage according to the store name in the x-axis.

The stores with shelf-fullness percentages of more than or equal to 90 are represented in sky-blue color bars.

The stores with shelf-fullness percentages of less than 90 and more than 50 are represented in emerald-green color bars.

The stores with shelf-fullness percentages of less than 50 are represented in light-red color bars.

If you take your mouse and hover it over the bars you can view the precise shelf-fullness of that store in the desktop version of the web app.

Or you can simply tap on the bars in the mobile version of the web app and you will able to check the actual percentage of shelf-fullness of the stores for that day.

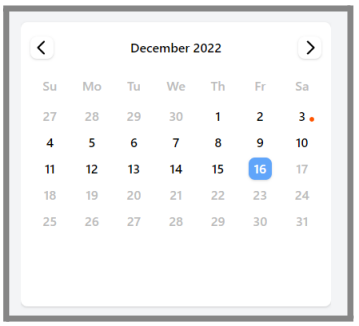
4.6 Store selector

With this selector’s help, you can choose to see all the dashboard-related information related to any specific store of your concern. By default, it is selected as “All stores."

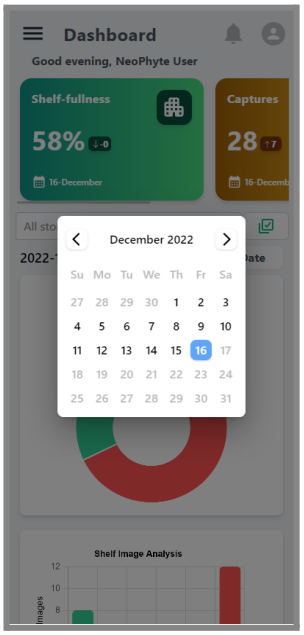
4.7 Calendar

- The calendar component on the dashboard page allows you to select any date of your choice to view all of the provided information for that specific date. However, you will be unable to select any date prior to the current date. When you open the DIShA web app, the calendar component is set to the current date by default.

- By clicking on the month name displayed on the top side of the calendar, you can navigate through your desired month.

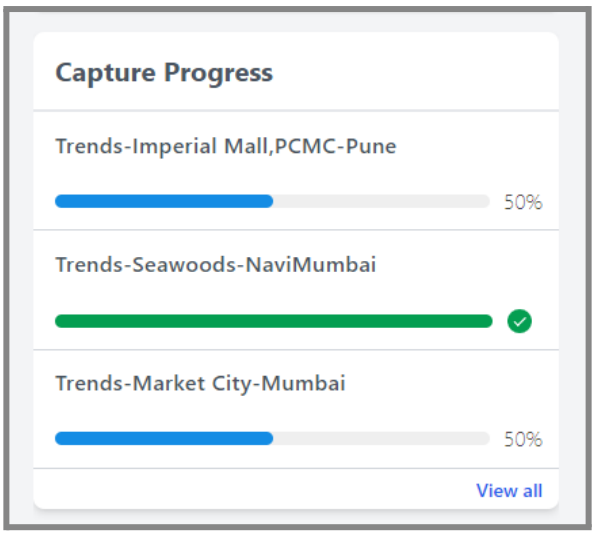


- The dashboard page of the mobile version of the DIShA web app includes a ‘select date' button. By clicking on it, you will gain access to the calendar component and will be able to select any date of your choosing to view all of the information for that specific date.



4.8 Capture progress

- Each store must upload a predetermined number of images each day using the DIShA mobile application. The number of images uploaded from a particular store is displayed in this section of the capture process as a percentage of the total number of images that should be uploaded daily.



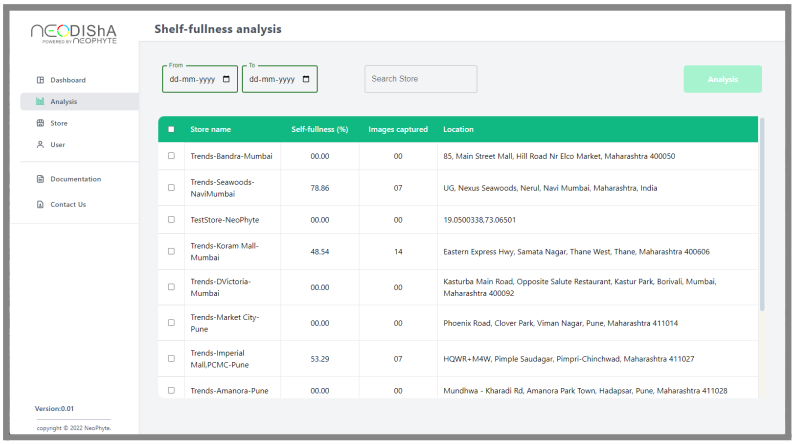
- There is a view all button at the bottom of this section, which will take you to a list of all the stores that have uploaded images, along with a progress bar for each store showing the percentage of image upload completion of any concerned date.

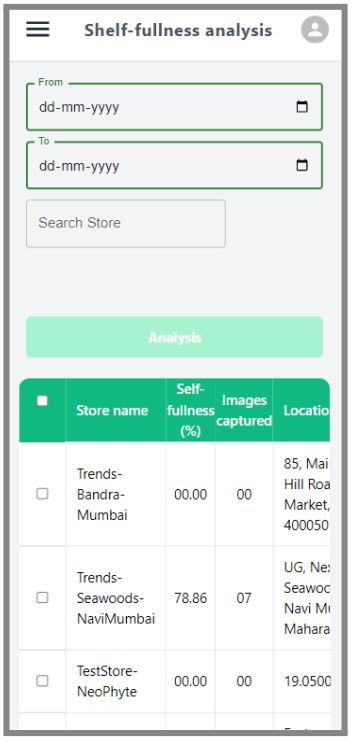
- There is also a search option to locate any specific store and its image capture progress without scrolling through the list.

5.0 Analysis page

This page contains the components below:

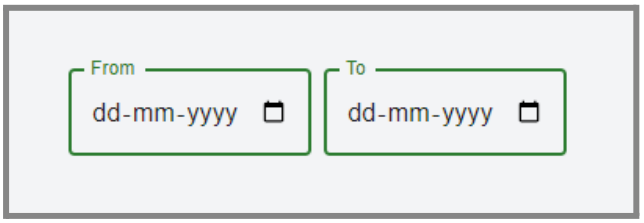
1. Date range picker
2. A search bar for stores
3. Analysis table
4. Brand selector
5. Analysis button

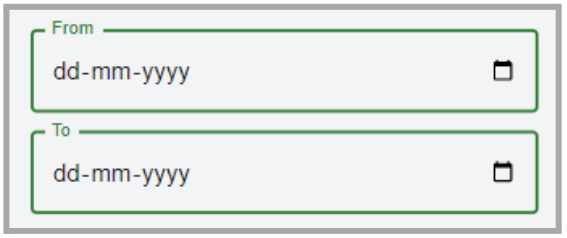




5.1 Date range picker

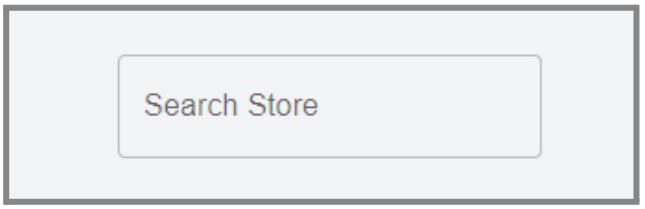
You can pick a range of dates that is ‘from’ and ‘to’, as per your preference with the help of this component.





5.2 A search bar for stores

For convenience, you can directly type the name of the store of your concern, and you will be able to check all the details of that store below on the table as well as you will be able to select that store for further analysis of the images captured from that store.

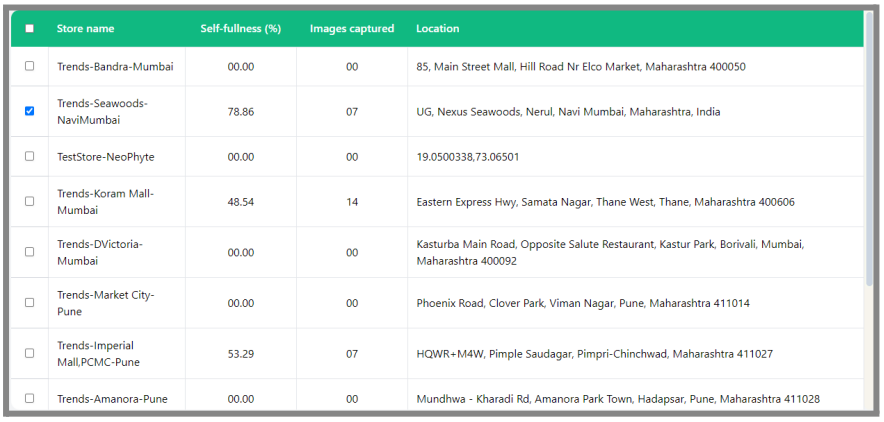


5.3 Analysis Table

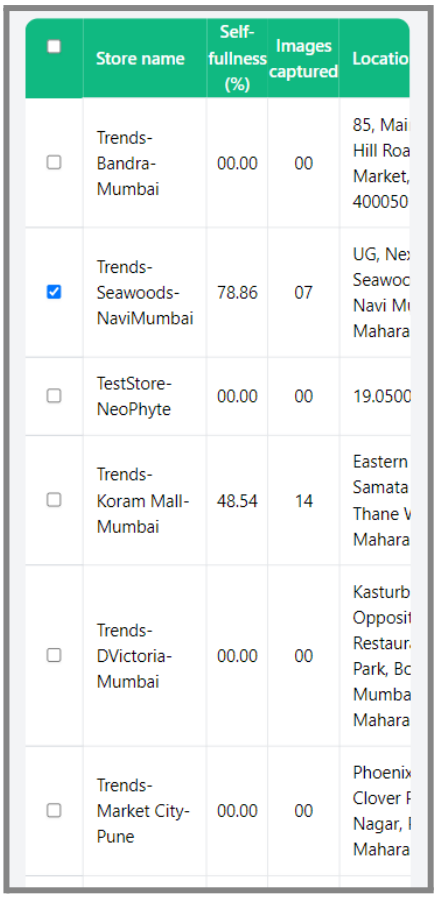
This table on the analysis page contains the details with the columns below:

1. **Store name**
2. **Fullness (%)** - This column shows the percentage fullness of the stores for the current day.
3. **Capture** - This column shows the total images captured from its relative store for the current day.
4. **Location**

You can select any specific store, multiple stores, or all the stores to perform further image analysis of images by selecting the checkboxes present on the left side of every row for each store on this table.



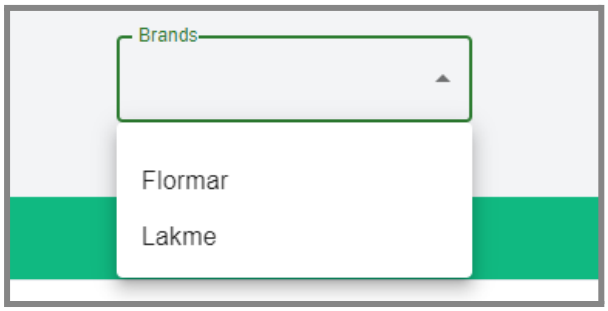
	Store name	Self-fullness (%)	Images captured	Location
☐	Trends-Bandra-Mumbai	00.00	00	85, Main Street Mall, Hill Road Nr Elco Market, Maharashtra 400050
☑	Trends-Seawoods-NaviMumbai	78.86	07	UG, Nexus Seawoods, Nerul, Navi Mumbai, Maharashtra, India
☐	TestStore-NeoPhyte	00.00	00	19.0500338,73.06501
☐	Trends-Koram Mall-Mumbai	48.54	14	Eastern Express Hwy, Samata Nagar, Thane West, Thane, Maharashtra 400606
☐	Trends-DVictoria-Mumbai	00.00	00	Kasturba Main Road, Opposite Salute Restaurant, Kastur Park, Borivali, Mumbai, Maharashtra 400092
☐	Trends-Market City-Pune	00.00	00	Phoenix Road, Clover Park, Viman Nagar, Pune, Maharashtra 411014
☐	Trends-Imperial Mall,PCMC-Pune	53.29	07	HQWR+M4W, Pimple Saudagar, Pimpri-Chinchwad, Maharashtra 411027
☐	Trends-Amanora-Pune	00.00	00	Mundhwa - Kharadi Rd, Amanora Park Town, Hadapsar, Pune, Maharashtra 411028

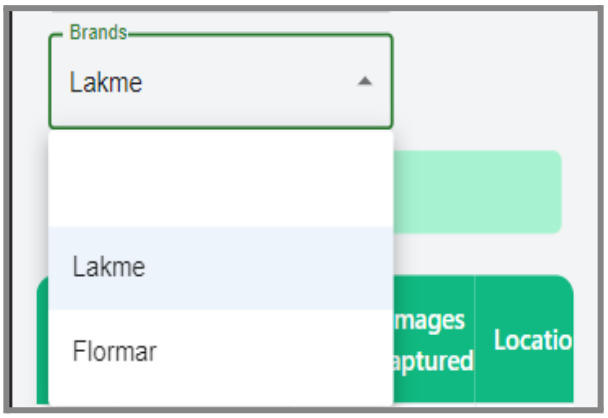


	Store name	Self-fullness (%)	Images captured	Locatio
☐	Trends-Bandra-Mumbai	00.00	00	85, Mai Hill Roa Market, 400050
☑	Trends-Seawoods-NaviMumbai	78.86	07	UG, Ne Seawoc Navi Mu Mahara
☐	TestStore-NeoPhyte	00.00	00	19.0500
☐	Trends-Koram Mall-Mumbai	48.54	14	Eastern Samata Thane V Mahara
☐	Trends-DVictoria-Mumbai	00.00	00	Kasturb Opposit Restaur Park, Bc Mumba Mahara
☐	Trends-Market City-Pune	00.00	00	Phoenix Clover F Nagar, I Mahara

5.4 Brand selector

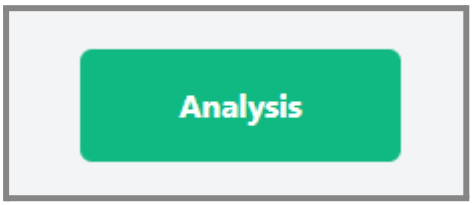
Initially, the brand selector is disabled on this page, but after selecting the required store or multiple stores, the brand selector option gets enabled and you can choose any specific brand to perform a brand-wise analysis of images.

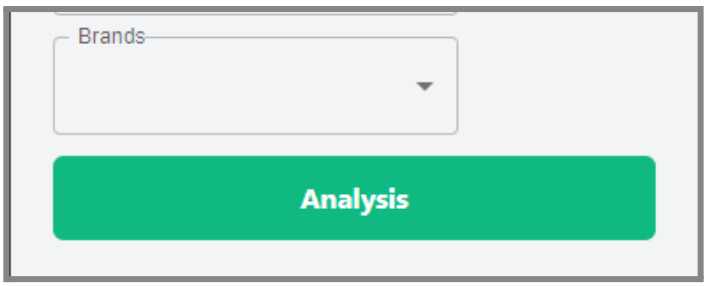




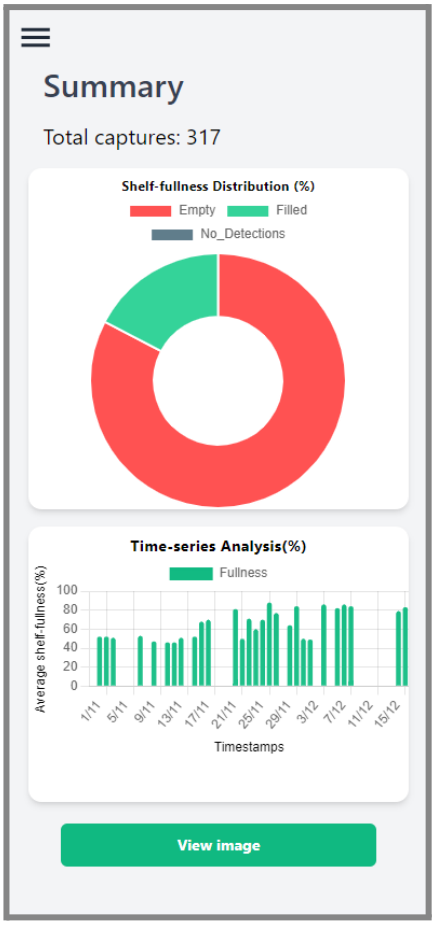
5.5 Analysis button

- After selecting all the required fields on this page the ‘analysis’ button gets enabled and when you click on it, it opens a “summary page”.



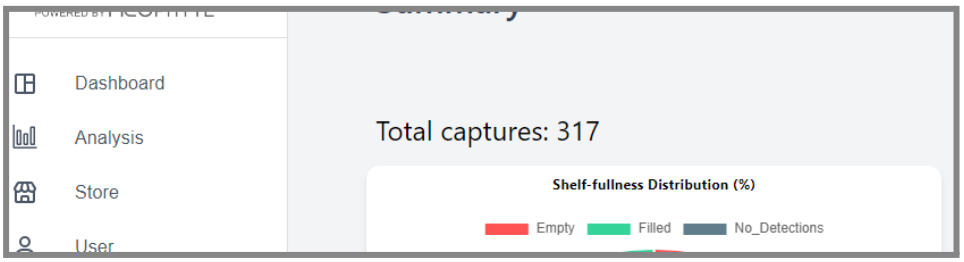


- The summary page consists of
  1. **Total capture count**
  2. **Donut chart** (Self-fullness distribution %)
  3. **Bar chart** (Time-series analysis %)
  4. **View button**

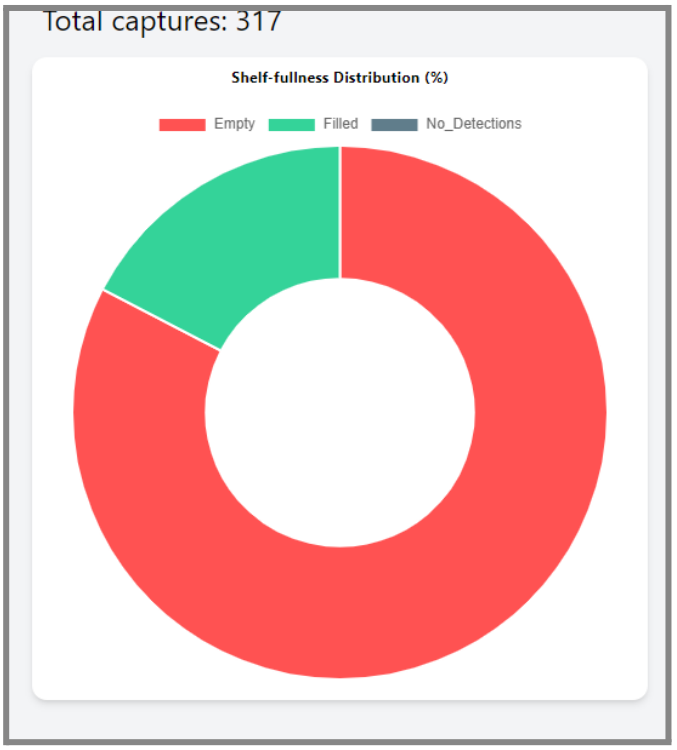


5.5.1 Total capture count

It shows the count of the total number of images on which the analysis is being performed.



5.5.2 Donut chart (Self-fullness analysis%)

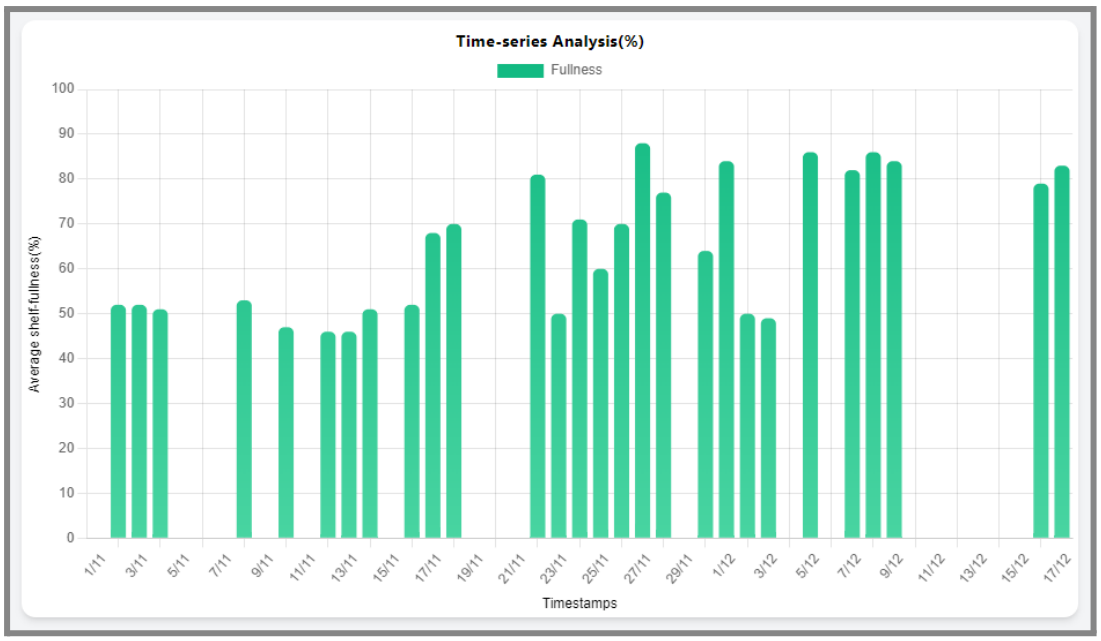


This chart shows the data in percentages and classifies the images into 3 categories which are

- ***Filled*** - The percentage of images with shelf-fullness of more than 90% in the green.
- ***Empty*** - The percentage of images with shelf-fullness of less than 90% in the red.
- ***No detections*** - The percentage of images that have not been analyzed due to being blurred, clicked from an odd angle, or unrelated images from a shelf in the gray-colored portion.

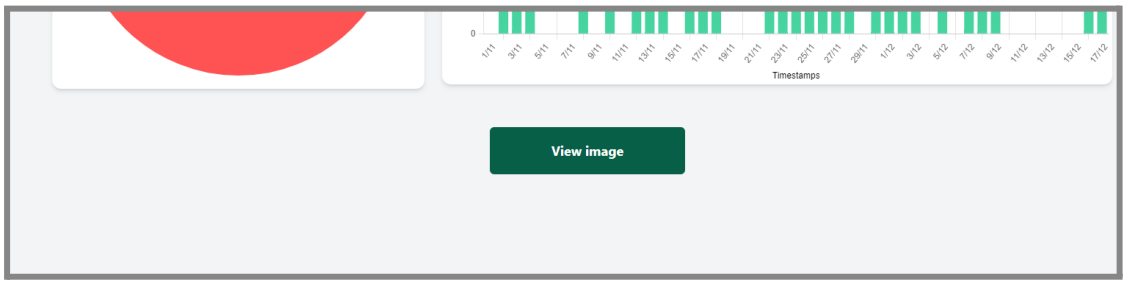
5.5.3 Bar chart (Time-series analysis%)

In this bar chart, the X-axis shows the date, and the Y-axis shows the average shelf-fullness percentage of all the images that are being analyzed on that same date.



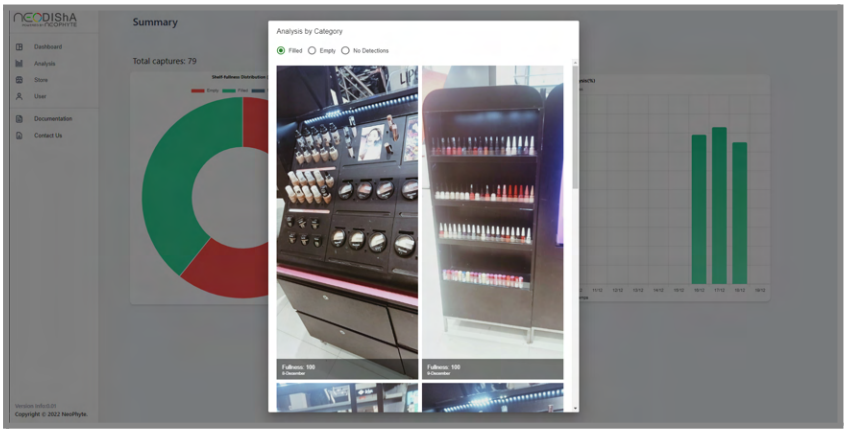
5.5.3 View image button

- The “view image” button is present below the above 2 charts on the “summary” page.

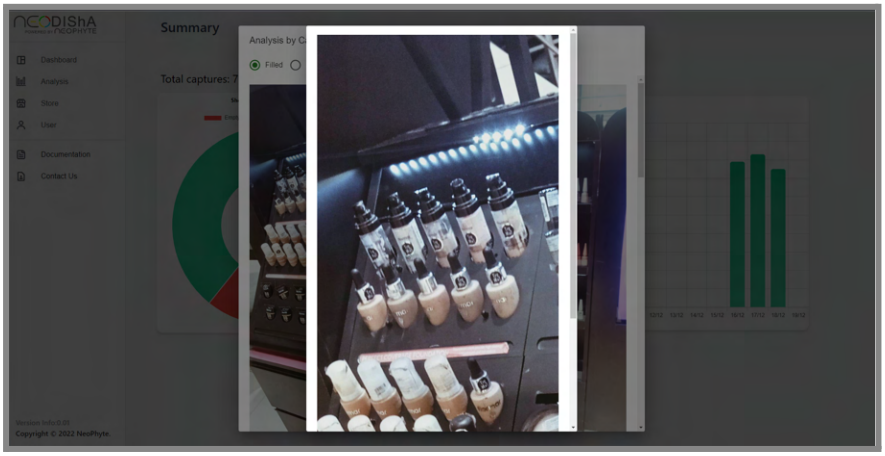


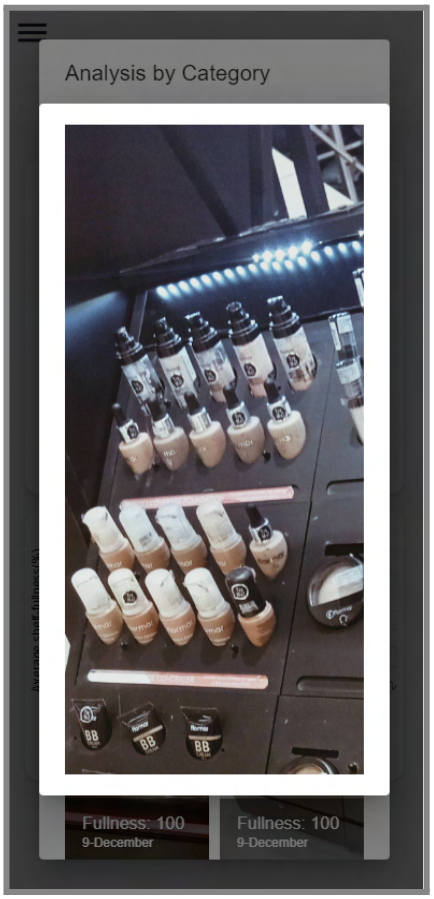
- Clicking on this button opens a window where you can preview and examine all the images that are classified into three categories:
  - ➢ ***Filled*** - The percentage of images that have shelf-fullness of more than 90%.
  - ➢ ***Empty*** - The percentage of images that have shelf-fullness of less than 90%.
  - ➢ ***No detections*** - The percentage of images that have not been analyzed due to being blurred, clicked from an odd angle, or unrelated images from a shelf.

- The preview of images in each category also contains their fullness percentage and the date they are captured at the bottom.



- You can further click on each preview of the image and will be able to zoom the image in and out at your convenience for further inspection. And it closes the opened window for the image if you click outside of it.

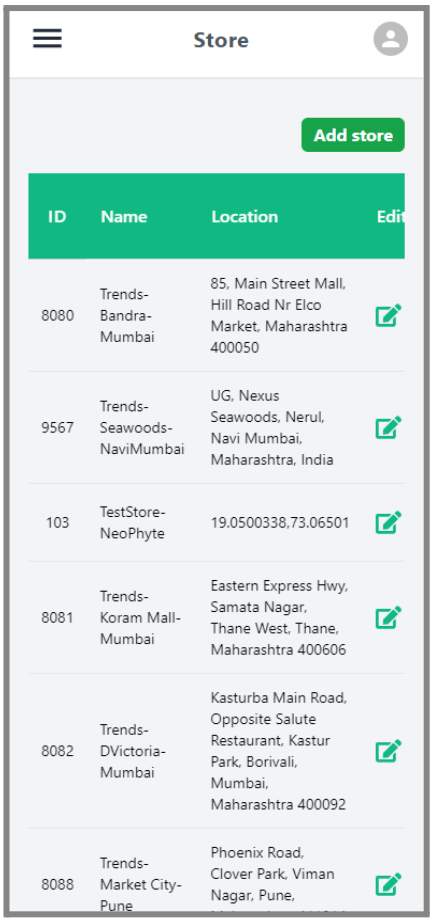


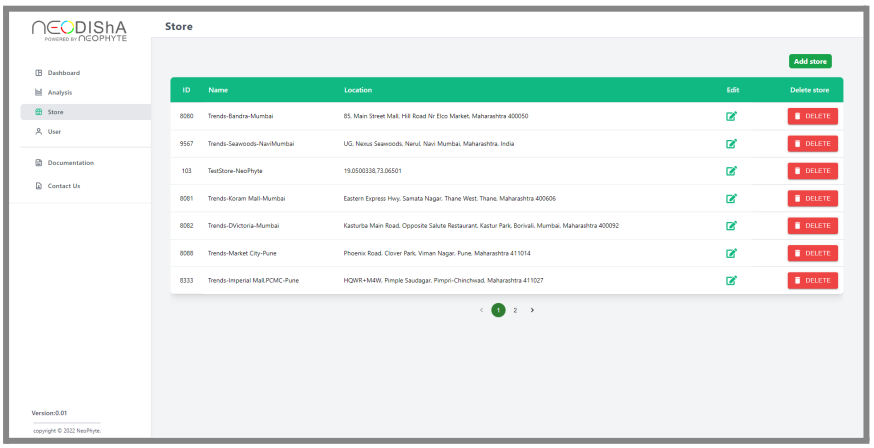


6.0 Store Page

The store page has only two components on it that are:

1. Table with store details
2. Add store button





6.1 Table with store details

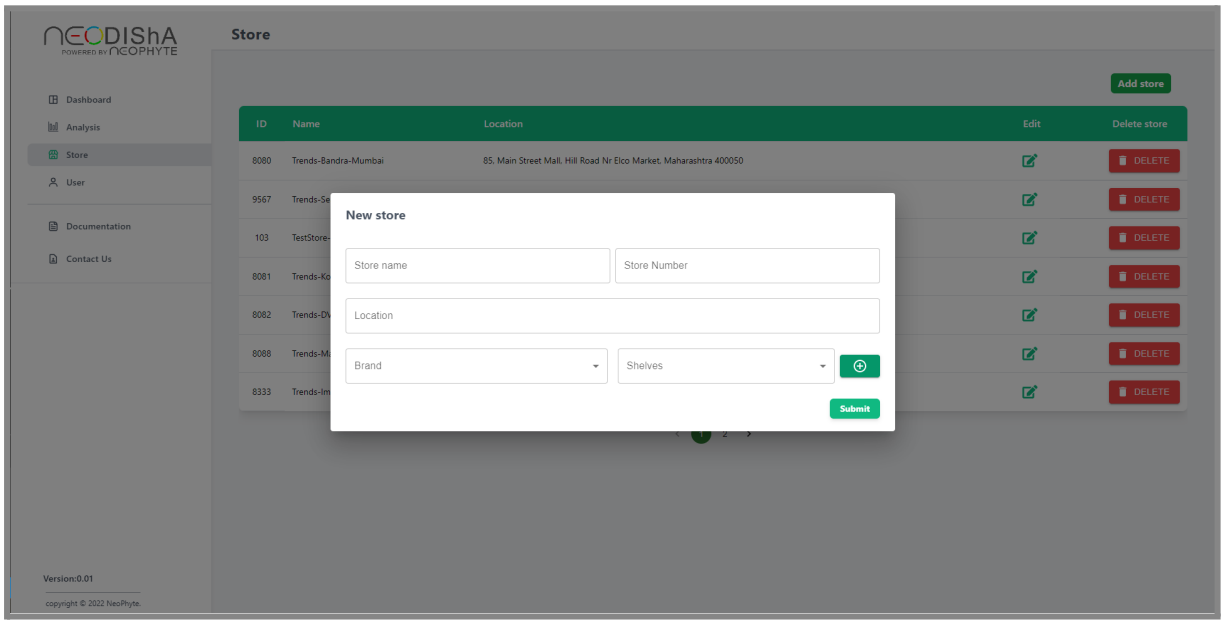
- This table contains the below details of all stores:
  - ➢ Store ID
  - ➢ Store Name
  - ➢ Store Location

- With every store's data, there is also an option to edit the store details or to delete a store. But these two options are only enabled for users with admin access. And for other users of DIShA web app, this option remains disabled in the table.
  - ➢ If a user with an admin role clicks on the edit button for any concerned store then all the details of that store will be displayed and the user can edit each and every detail as per requirement and then have to click on the submit button in order to proceed with all the changes made.
  - ➢ Likely by clicking on the delete button for a specific store it opens a small window to reconfirm the deletion of that store.

You can click on the “yes” button to proceed or can cancel the deletion process by clicking on the “cancel” button.

6.2 Add store button

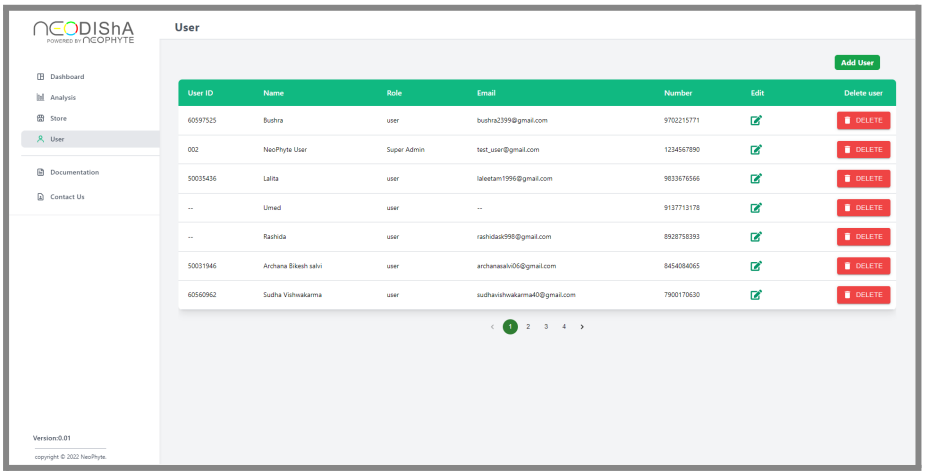
Here any new store can be added to the DIShA web app by providing all the required details only by a user with admin access. But for a user with manager access, this button will not be visible.



7.0 User Page

The user page has also two components on it that are:

3. Table with user details
4. Add user button

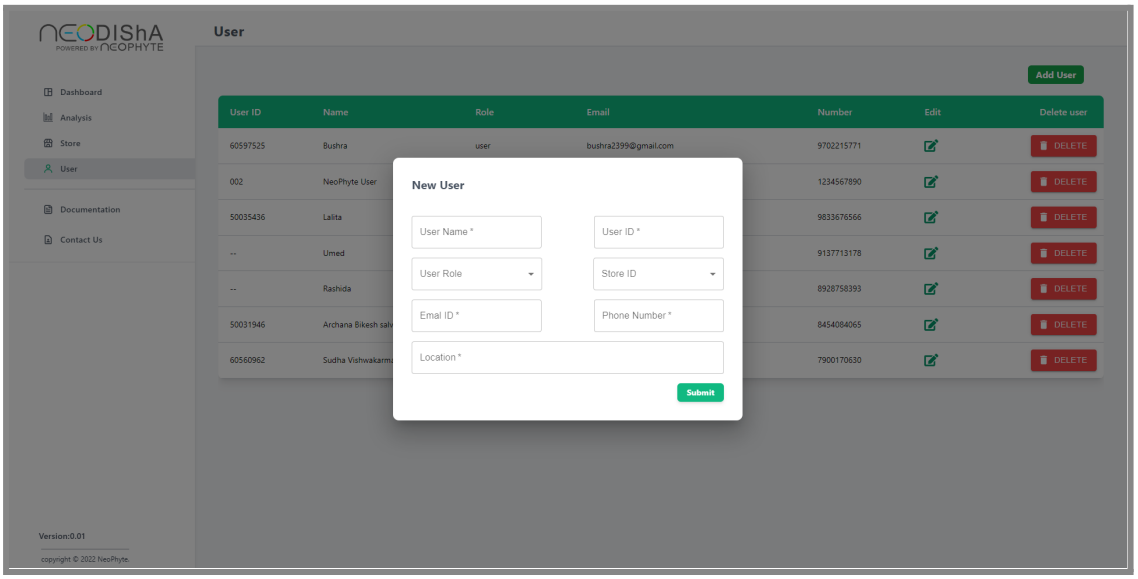


7.1 Table with user details

- This table contains the below details of all assigned users:
  - ➢ User ID
  - ➢ User name
  - ➢ User role (Admin/Manager/User)
  - ➢ User email address
  - ➢ User mobile number
- With every user's data, there is also an option to edit the user details or to delete a user. But these two options are only enabled for users with admin access. And for other users of DIShA web app, this option remains disabled in the table.
  - ➢ If a user with an admin role clicks on the edit button for any concerned user then all the details of that user will be displayed and the user can edit each and every detail as per requirement and then have to click on the submit button in order to proceed with all the changes made.
  - ➢ Likely by clicking on the delete button for a specific user, it opens a small window to reconfirm the deletion of that user. You can click on the “yes” button to proceed or can cancel the deletion process by clicking on the “cancel” button.

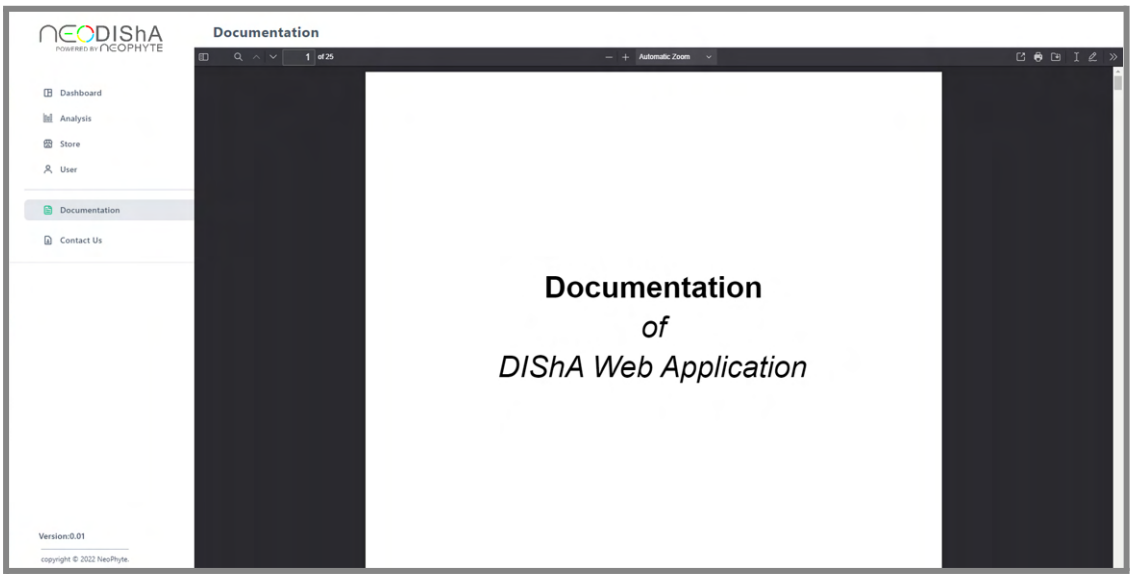
7.2 Add user button

Any new user can be added to the DIShA web app by providing all the required details, but only by a user with admin access. But for a user with manager access, this button will not be visible.



8.0 Documentation Page

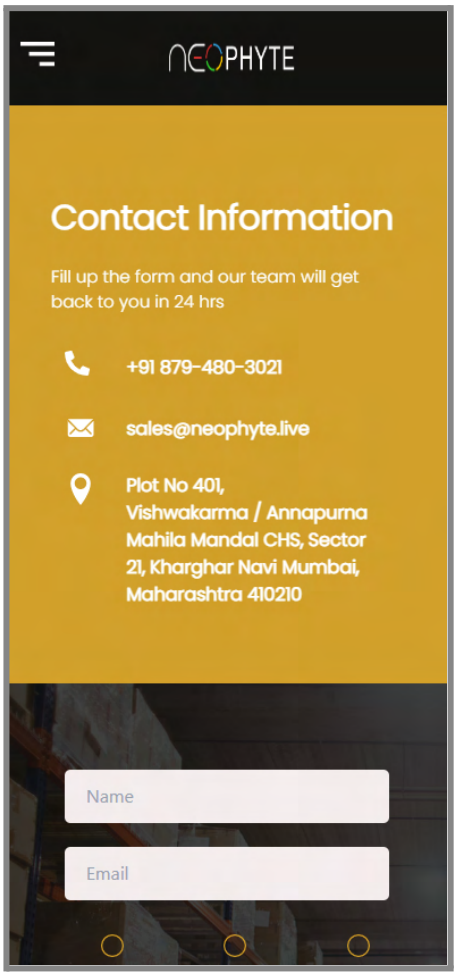
The DIShA web app's documentation page makes sure that every aspect of the web application is explained in detail and is simple enough to understand without any help.

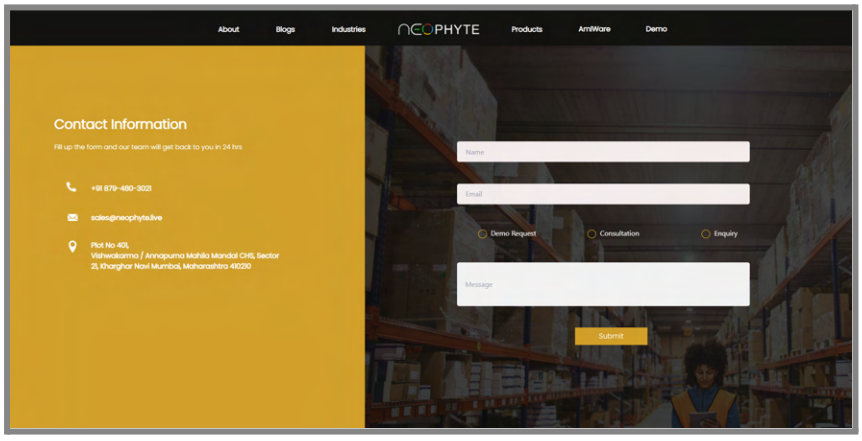


9.0 Contact us Page

The contact us page redirects you to a web page where you can connect with the neophyte team regarding the DIShA web app. The page contains one or more following items of neophyte:

1. Contact number
2. Email address
3. Location address





The END