



UI INTERFACE HELP DOCUMENT

Submitted to



DATE <>

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1. AI MODEL INTERFACE - HTML

In addition to the windows application, there will be a hosted HTML web application for viewing the system performance reports and configuring AI/ML model. This will be hosted in the same server controller and are recommended to use only when the Visual Inspection System is not running. Accessing the Web Reports when the system is Live can impact the performance of the Inspection process.

1.1 LOGIN PAGE

System allows users to login with username and password.

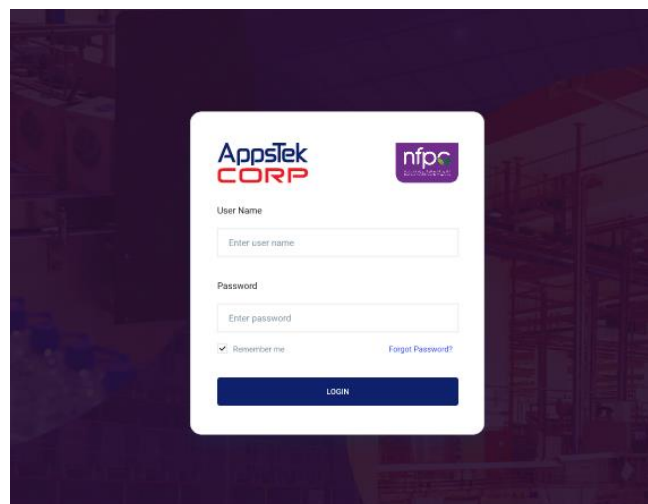


Figure 1: Login page

1.2 HOME PAGE

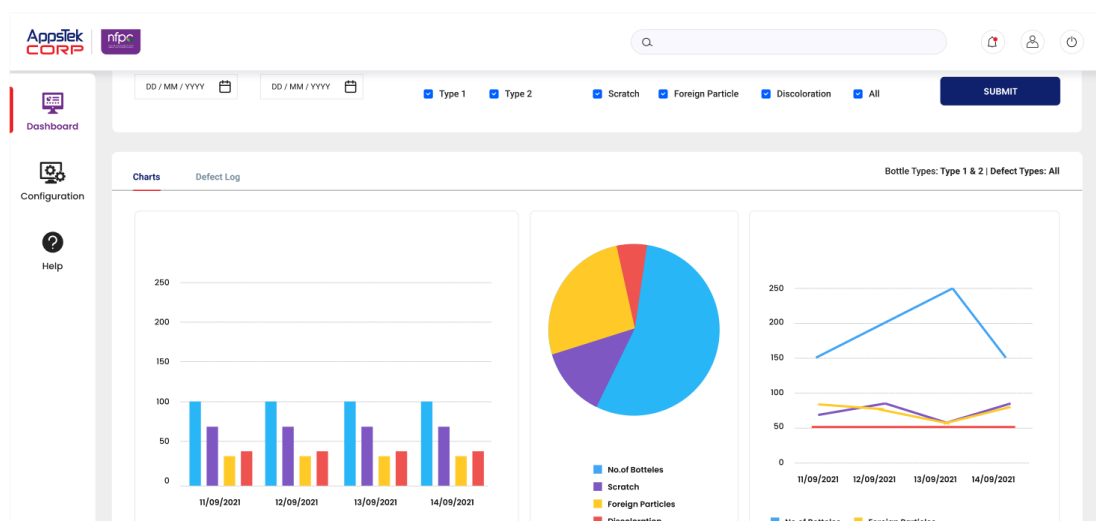


Figure 2: Dashboard

The Home page provides side bar menu options to access Dashboard, Configuration, Settings, and Help. Dashboard provides visualization charts of Inspection results for the specified filter conditions. Filter options include From & To Dates, Defect Types and Bottle Types. Sample Filtered output displayed below

Types of Filters:

1. Filter by Date: The 'From' Date and 'To' Date can be selected to get defect data for the range of date.
2. Filter by Bottle Type: The Bottle type can be chosen from Type 1 and Type 2.
3. Filter by Defect Type: The Defect Types that can be chosen are Scratch, Foreign Particles, Discoloration and All.

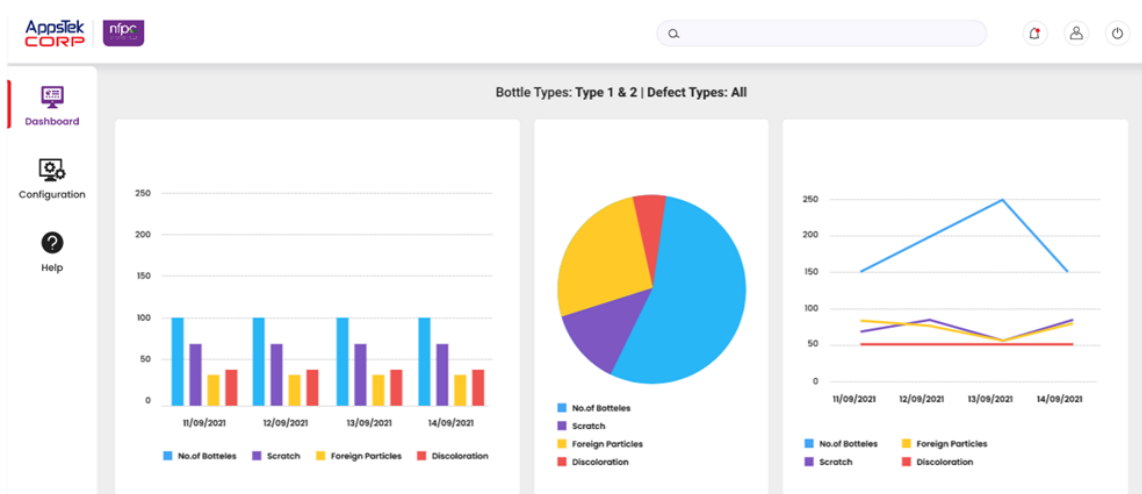


Figure 3: Filtered Charts

Clicking on the charts displays the detailed data will be shown in the form of table. Data can be exported to csv/xml formats

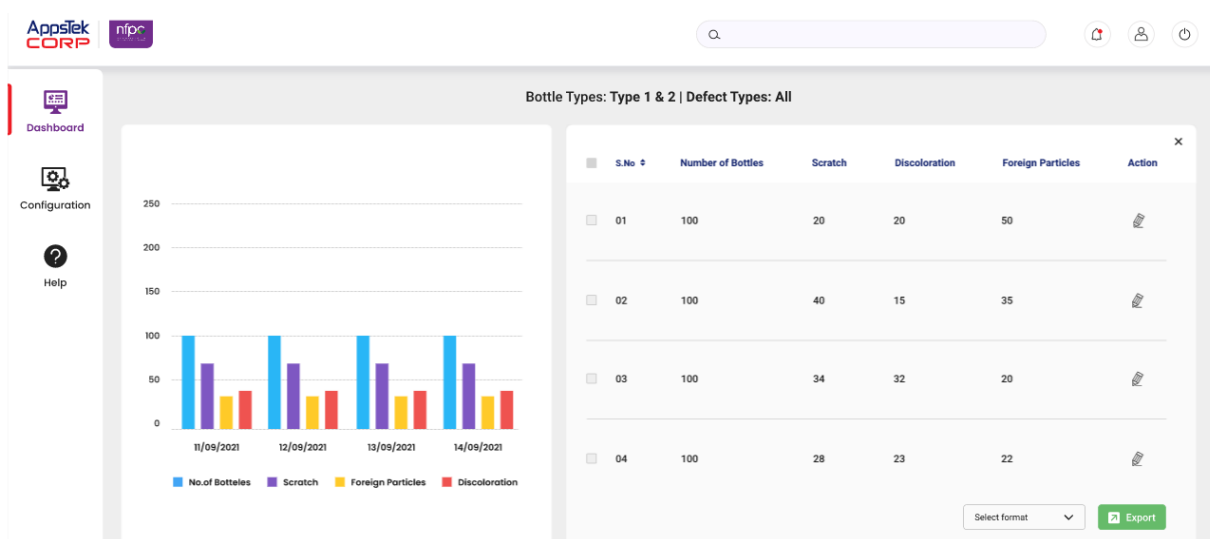
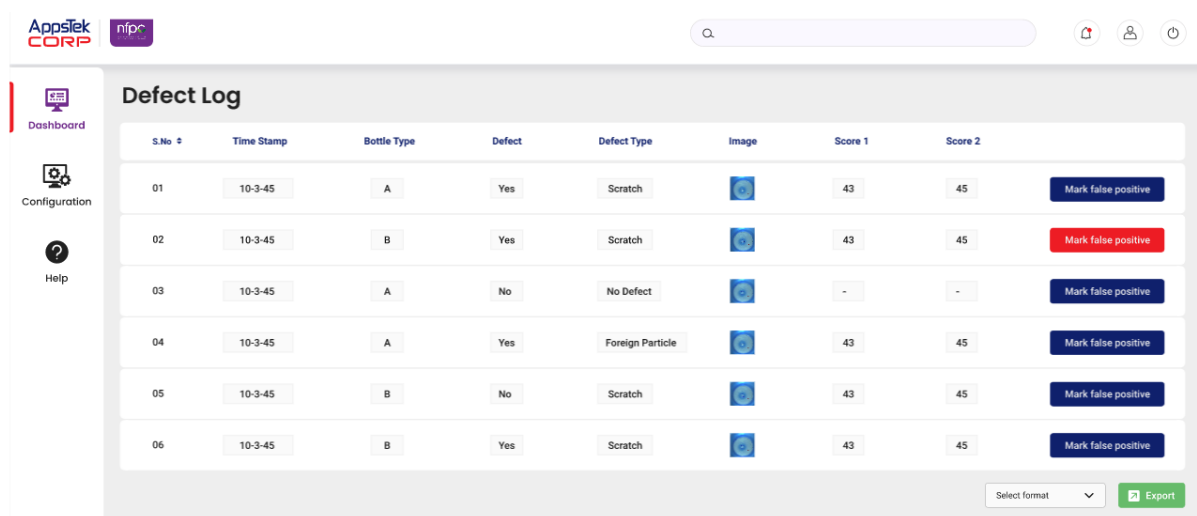


Figure 31: Export Data

Defect log table is also displayed in the Dashboard below the charts:

- Each row has the details of the defects detected - Timestamp, Bottle Type, Type Of Defect And Defect Reference Image.
- The image thumbnail will show us the defect bottle image. Manually operator can review the defect type w.r.to defect image.
- If there is any false detection by the system, operator can update the result as false positive. This will help to improve the detection accuracy of the system. Whenever false positive button is pressed, it turns Red, indicating correction is done.
- The log data can be exported to csv/xml format.
- The Defect Log Interfaces are primarily used during the training of AI Model by the system engineers.

These reconciliation activities pertain to correction of the predictions in improving the accuracy of the model. As the Model gets trained with identifying right defects, it will become more accurate and efficient moving forward.









S.No	Time Stamp	Bottle Type	Defect	Defect Type	Image	Score 1	Score 2	
01	10-3-45	A	Yes	Scratch		43	45	Mark false positive
02	10-3-45	B	Yes	Scratch		43	45	Mark false positive
03	10-3-45	A	No	No Defect		-	-	Mark false positive
04	10-3-45	A	Yes	Foreign Particle		43	45	Mark false positive
05	10-3-45	B	No	Scratch		43	45	Mark false positive
06	10-3-45	B	Yes	Scratch		43	45	Mark false positive

Figure 42: Defect Details

User can view the image by clicking on the thumbnail.

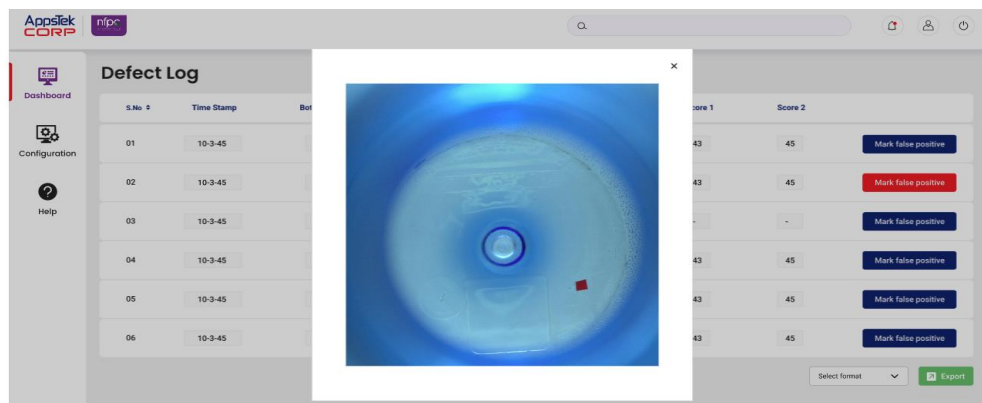


Figure 53: Defect image view

1.3 SYSTEM CONFIGURATION:

Clicking on Configuration tab will display the System configuration page. Here operator can check the software model version currently active as well as the other models available.

- Any models could be made active from the Model Status List by selecting the respective Checkbox in front of the Model serial number. The Model that is selected by a user will
- Model threshold values can be updated through this screen from System Threshold table on the right side. For example, when Model A has selected, its threshold values are displayed on right side table. User can modify and save the settings of the required Model & its respective threshold settings, which will be recorded in log details.

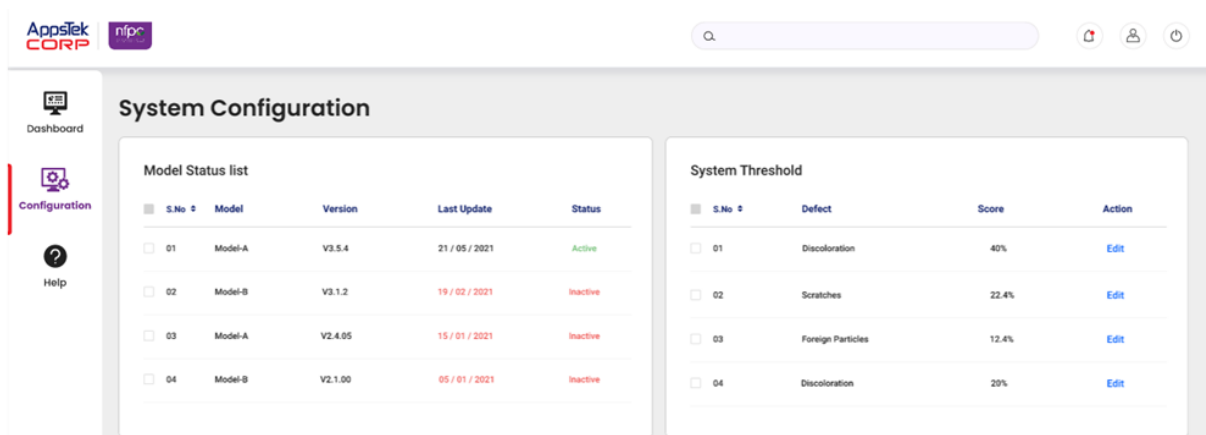


Figure 64: Model Configuration – Model Status list & System Threshold

1.4 MODEL UPLOAD

The Appstek AI Software can even upload the updated model or new models as the models evolve for better futuristic outlook and performance:

- This can be done here by giving a model name, version, attach the model file and finally click on upload.
- The latest model will be added in the model status list and click on status to switch the latest model as active.
- User can set the Defect Detection Threshold Range for Models as per requirement

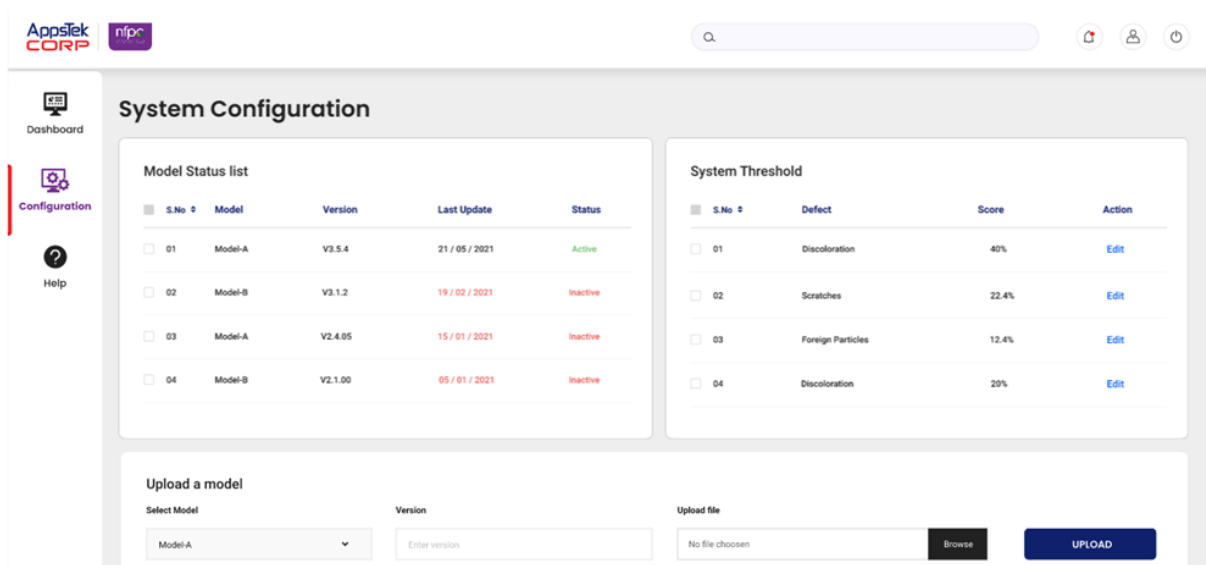


Figure 75: Model Configuration – Upload a Model

User will get a pop-up confirmation once a new Model has been successfully uploaded to the system.

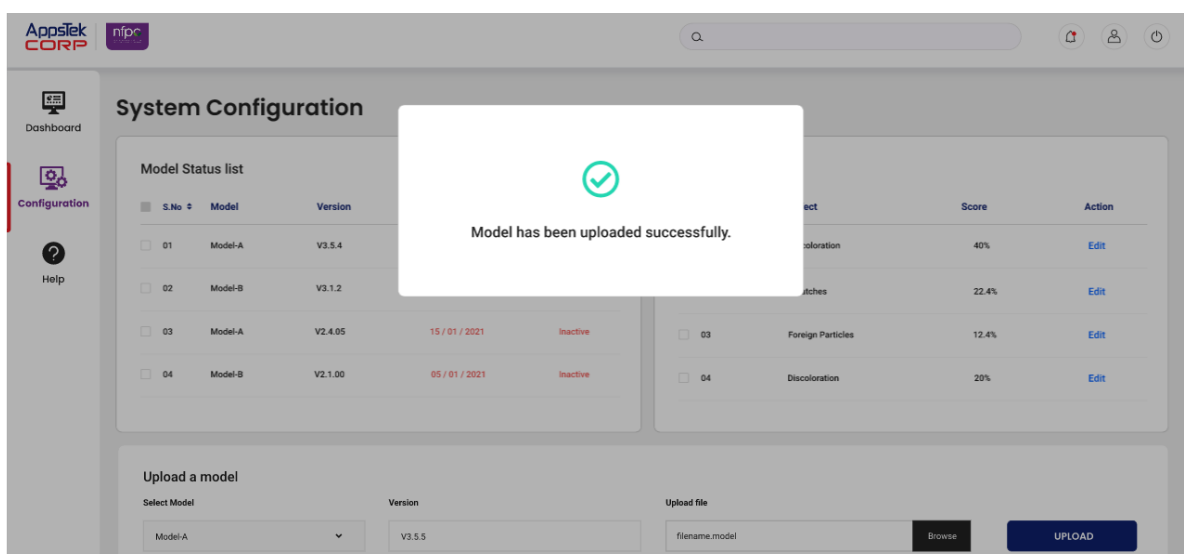


Figure 86: Upload Model Success Notification

1.5 HELP

On the click of Help tab in the side bar, the page navigates to User Manual for easy self-help directions and pointers.