

Demand Prediction and Management Tool Step-by-step Training Guide

Health Sector
Insiel (INS) - Italy



SUNRISE

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Content Overview



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This step-by-step guide helps users navigate the Demand Prediction and Management Tool to analyse forecast data and manage uploads. It forms part of the training materials provided for the solution, alongside the [training video](#) for the Insiel (Italy) pilot in the Health Sector.

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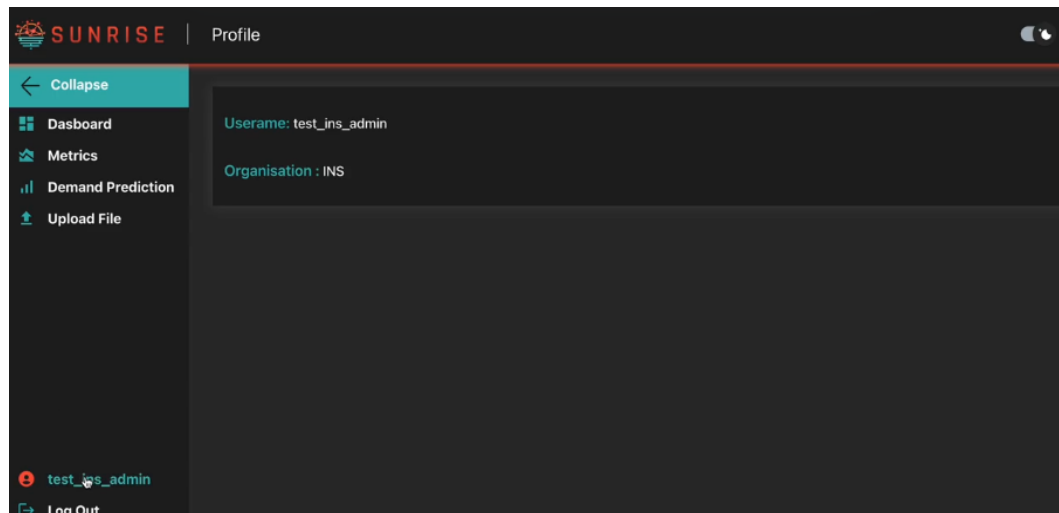
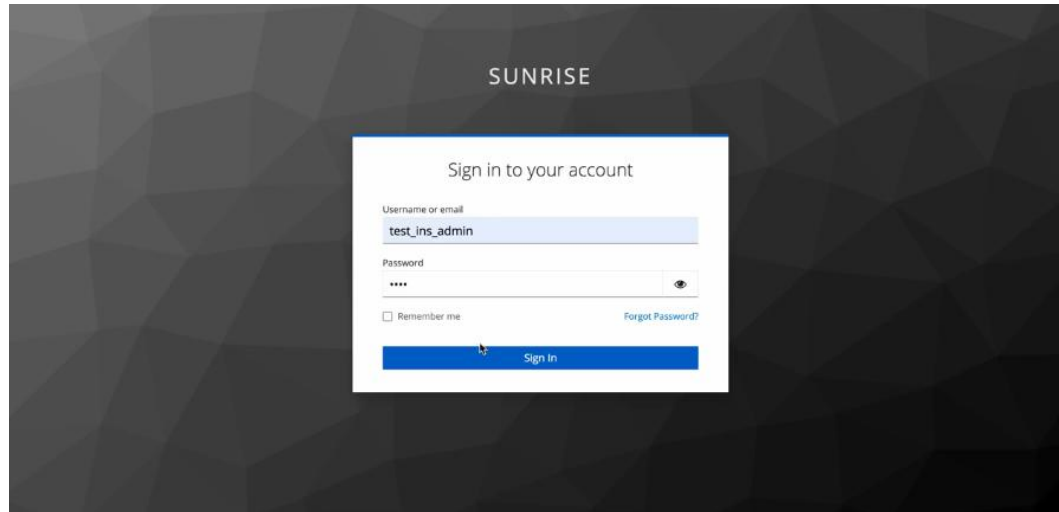
03

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Login & Interface



- + Begin by entering your credentials on the login screen.
- + Select the “**Remember Me**” option if you wish to stay signed in on future visits.
- + After logging in, the main dashboard loads, featuring a left-hand sidebar with navigation links and a toggle to switch between **dark and light themes**.

Dashboard Page



- + Use the dropdown menus to **filter data by district**.
- + Explore **interactive time series graphs** of uploaded health-related data.
- + You can zoom into specific time ranges and **use Ctrl + Z to reset the view** to its default zoom level.

Metrics Page



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- + Navigate to the Metrics section to **evaluate model performance**.

- + Apply filters to select the district and data category.

- + Performance metrics such as:

- › **RMSE** (Root Mean Squared Error)

- › **MAPE** (Mean Absolute Percentage Error)are displayed in a structured table for easy comparison.

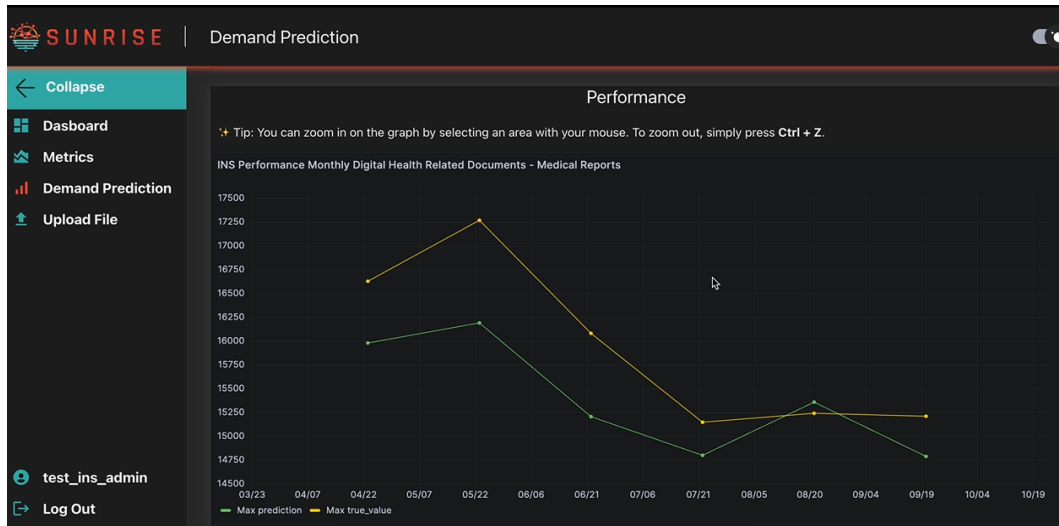
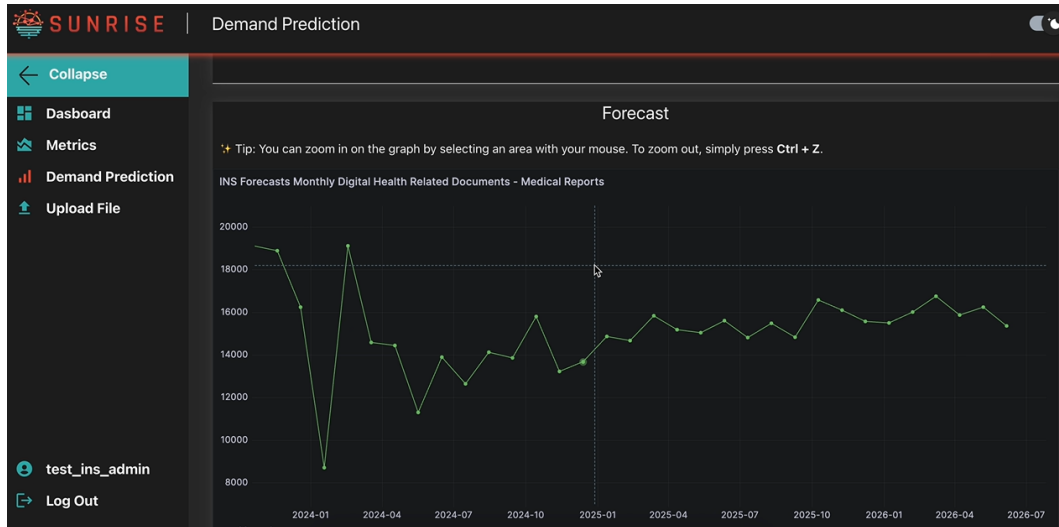
A screenshot of the SUNRISE web application's Metrics page. The page has a dark theme. On the left is a sidebar with a 'Collapse' button and menu items: 'Dashboard', 'Metrics' (highlighted), 'Demand Prediction', and 'Upload File'. At the bottom of the sidebar, it shows the user 'test_ins_admin' and a 'Log Out' button. The main content area is titled 'Metrics' and contains a form with three dropdown menus: 'Type' (set to 'Digital Health Related Documents'), 'Item' (set to 'Medical Reports'), and 'Time period' (set to 'Monthly'). A 'GET METRICS' button is to the right of these filters. Below the filters, a section titled 'Ldo Monthly Metrics' contains a table with two columns: 'Name' and 'Value'.

Name	Value
rmse	665.95654296875
mape	3.5670692920684814
mae	580.90380859375

Demand Prediction Page

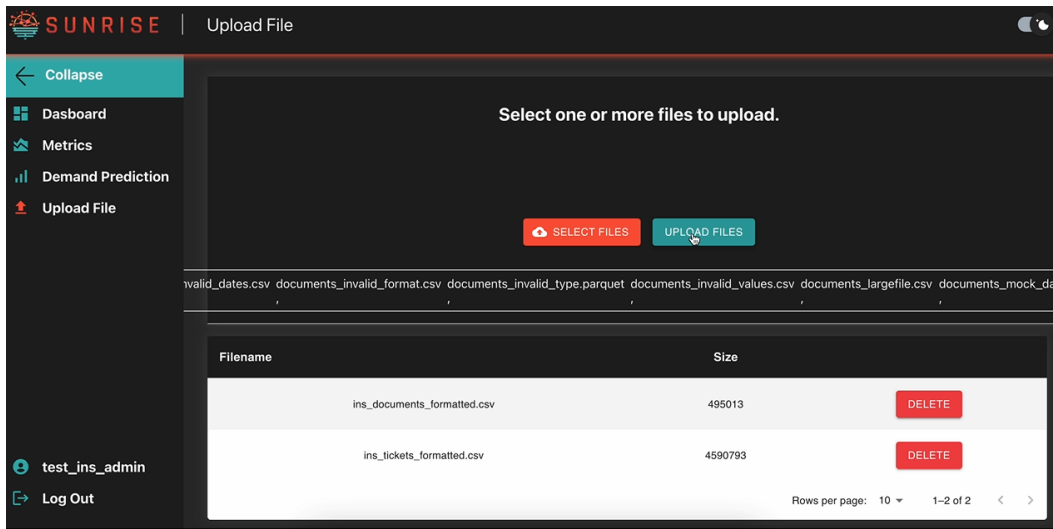


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- + Go to the Demand Prediction page and select your **district and forecast time interval** to view upcoming demand projections.
- + Two graphs are provided:
 1. A **forecast graph** showing future demand (E.g. discharge letters, medical reports, X-rays).
 2. A **training comparison graph** displaying predicted values versus actual data, helping users assess model accuracy.

File Upload Page



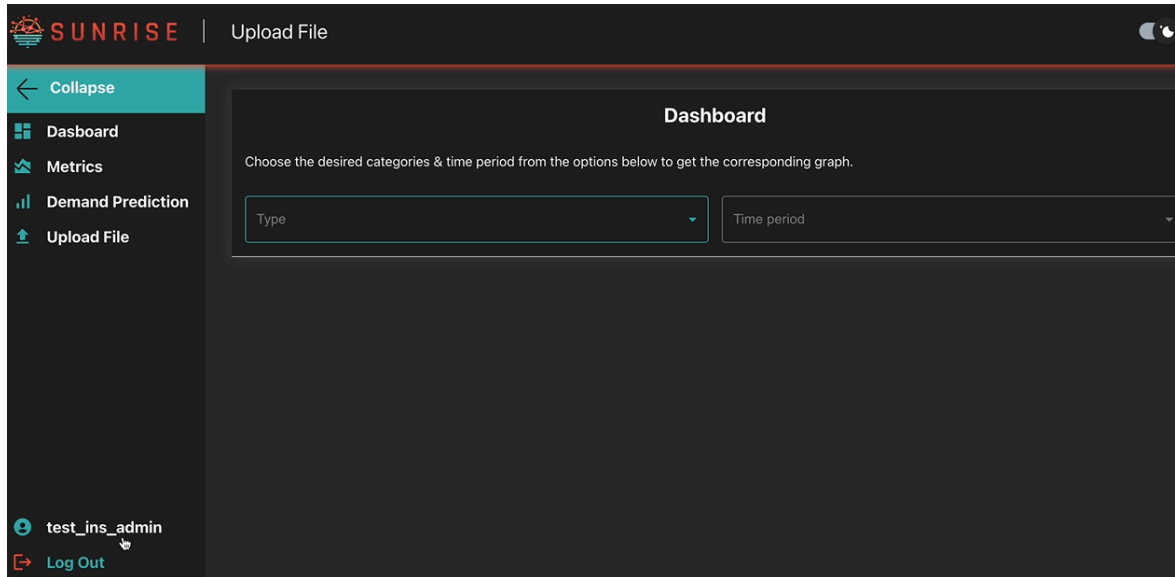
Upload/Import Files Response

Filename	Size	Has Invalid Name	Has Invalid Type	Is Large File	Is Empty	Has Invalid Format	Invalid Dates	Invalid Categories	Invalid Values	Missing Values	New Records	Updated Records
documents_invalid_dates.csv	134	✓	✓	✓	✓	✓	6	0	0	0	0	0
documents_invalid_format.csv	128	✓	✓	✓	✓	✗	0	0	0	0	0	0
documents_invalid_type.parquet	123	✓	✗	✓	✓	✓	0	0	0	0	0	0
documents_invalid_values.csv	100	✓	✓	✓	✓	✓	0	0	2	0	0	0
documents_largefile.csv	10726959	✓	✓	✗	✓	✓	0	0	0	0	0	0
documents_mock_data.csv	84	✓	✓	✓	✓	✓	0	0	0	1	0	3
tickets_empty.csv	0	✓	✓	✓	✗	✓	0	0	0	0	0	0

documents_mock_data.csv upload successful. The file contains 1 missing values, 0 new records, and 3 updated records.

- + Upload **one or multiple data files** through the file upload interface.
- + The system automatically performs **validation checks** for: type, size, and missing values.
- + Invalid files will be flagged in **red** with an explanation of the issue.
- + Valid files appear in **green** and will immediately initiate model training upon upload.
- + File naming must contain one keyword only: tickets or documents. E.g. tickets_202401.csv ✓, documents_tickets.csv ✗
- + After upload, dashboard and metrics update automatically. You can delete uploaded files and data.

Logout



- + When finished, simply click to **log out** and end your session securely.



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Thank you for following the training.

For more information:
<https://sunrise-europe.eu/>



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