SUML User Stories

Data upload

1. As a user, I want to upload my time-series data in CSV format so that I can use it for forecasting and visualizing later-on.
2. As a user, I want the system to validate my uploaded data to ensure it's in the correct format(e.g., date and value columns).
3. As a user, I want to see an error message if my data upload fails or the format is incorrect, so I can fix the issue.

Display

4. As a user, I want to view my uploaded time-series data in a tabular format so that I can verify its accuracy.
5. As a user, I want to see a graph of my uploaded data so I can visualize trends and patterns.
6. As a user, I want interactive chart options(e.g., zoom) so I can review my data more in a more refined way.

Forecast results

7. As a user, I want to select the number of future time steps I want to forecast(e.g., next 7 days, 30 days) so that I can customize my results.
8. As a user, I want to see forecasted results displayed alongside the original data so I can compare them.
9. As a user, I want the system to display metrics(e.g., MAE or RMSE) so I am able to understand the accuracy of the forecast.

Export data

10. As a user, I want to download the forecasted results in CSV format.
11. As a user, I want to export the combined dataset (original + forecasted) so that I have all the information in one place.