Foreshow project UI Guidelines

For the moment the UI will be focused on **historical data** analysis, so no need to train learning models or do predictions on the data.

There aren't any strict guidelines for the overall design of the page, but here are some of the elements that the product user should be able to see. The user will be presented with a web page where a number of parameters can be selected to calculate and display the time series plus some metrics. If your code decides that for that specific parameter selection there is not enough data points to produce a significant time series, then the screen should warn the user and prompt her to select more data.

**Trend identification based on Missed SLA’s**

The user at a minimum should be able to select on the UI:

- **Service area offering**; All together or focus on specific service.

- **Priority;** P4 **or** P5

- **Time frame** to extract trends on historical data; Either monthly or quarterly. Minimum timeframe should be a month. There should be the ability to select multiple months or the ability to select 1 or multiple **quarters**

- **Region** or **Country.** Not mandatory.

After clicking the submit option the UI should display, in a format that is understandable by a non technical user, not only the calculated time series, but also the trend, seasonality and noise, after decomposing the Time series. This is a graphical example

Graphical user interface

Description automatically generated

Interesting info about TS decomposition: <https://anomaly.io/seasonal-trend-decomposition-in-r/index.html>

Metrics to display next to the graphs:

1. Trending up or down? Display a quantitative metric that describes the trend. Red, green or yellow.
2. Display when, according to the calculated periodicity, SLA’s reach its highest and lowest points
3. Display any metric you think could be interesting for the end user trying to understand trends.