

Context

We would like to enrich our application with a fancy chart showing the price evolution of our customer's competitors.

Page is splitted in 2 zones.

Zone 1 : Selection form

2 calendars to select start and end date of the report

A list of competitors to select among a predefined list.

A submit button

On submit, frontend will call a backend service to get the data.

Zone 2 : Rendering area

To populate this zone, frontend will retrieve the data for selected competitors and selected dates.

Exercise

To serve the front-end layer, we ask to you provide 2 backend services as REST services written in any language.

Service one : Helpers to feed the selection form with the list of competitors available in the dataset. Front end will call this url to get the content of the drop down list with the competitors.

Parameters : no

Output: a list of existing competitor names as a json.

Service two : Feed the chart with data points. For a selected list of competitors and a data range, returns all the existing data points from the csv file for the selected parameters and return the data points as a json object. Front-end will call this service on submit button to get the data to render the chart.

Parameters:

List of competitor names

Start date

End date

Output : a json containing a list of objects : each object has a price, a competitor name and a price

Expected delivery:

A git repo with the code

To populate your backend database , use the csv file attached to populate your storage.

Have fun !