

Events Search Application for Rijksmuseum

Use Case:

Het Rijksmuseum in Amsterdam is the most prominent museum of The Netherlands with masterpieces like the Nachtwacht from Rembrandt, they also provide an API to give us some insight in their collection. We want to display a view with an overview of the upcoming events in the museum by fetching [information from that API](#).

API Used:

[https://www.rijksmuseum.nl/api/nl/agenda/\[yyyy-mm-dd\]?key=yW6uq3BV&format=json](https://www.rijksmuseum.nl/api/nl/agenda/[yyyy-mm-dd]?key=yW6uq3BV&format=json)

Requirements:

- The app must perform HTTP requests on the endpoint of the REST API to acquire the events for the upcoming week. Try to optimize so that the time to retrieve the data is minimized. Retrieve the information in JSON format.
- Images may be retrieved as efficient as possible and may be loaded lazily.
- The UI should be responsive to different browser sizes.
- The user should be informed if an error occurred while fetching data.

Framework and Tools Used:

- Angular 9
- Bootstrap 4
- Rxjs
- D3.js

Installations:

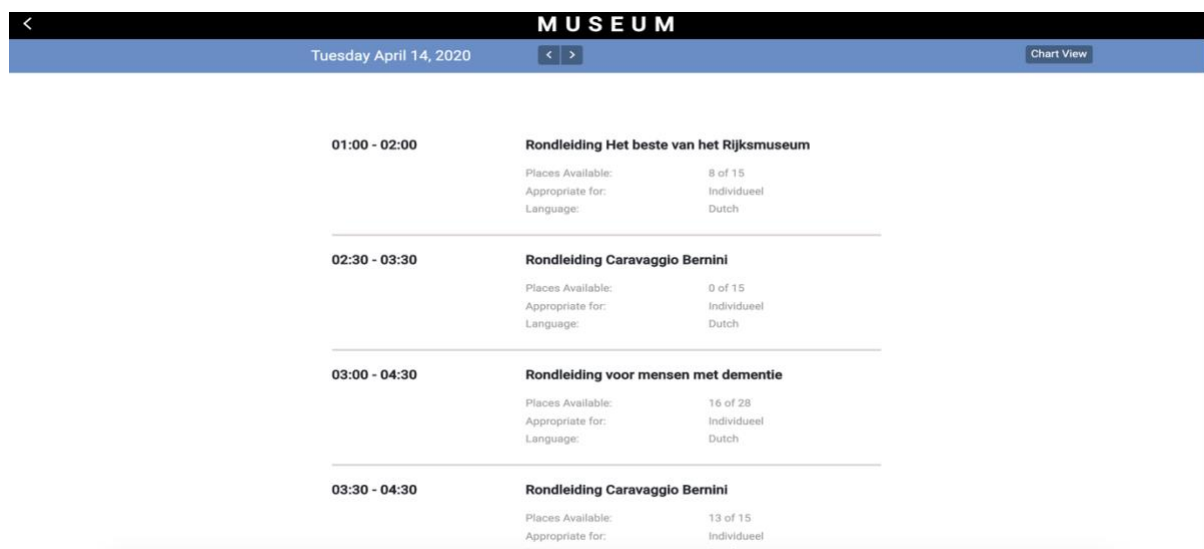
All the information regarding installations, running and testing the application is available in the file README.md present in the root directory of application.

Features & Screens:

- 1) First Screen is **Home Screen**, consisting of “View Events” button, on pressing it will Navigate to the Event List Screen.



- 2) Second Screen is **Event List Screen**, showing details of current date. Also user can see details of previous and next days by pressing previous and next arrow buttons present in header. Also, user is able to get a chart view of the events by pressing “Chart View” button. User can navigate back to the previous screen by pressing back arrow present in the top left corner.



- 3) Third Screen is **Chart View Screen**, showing details of number of upcoming events in the next month. Representation is done as a line chart using d3.js. Data is represented in weeks and user can navigate to previous and next week data for that particular month only. User can navigate back to previous screen by pressing back button.

