

Project work | Introduction to web programming

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Project 2: Statistic portal

I made a webpage that uses data from Tilastokeskus and frameworks like Leaflet and Frappe charts. Map also uses data from Google maps and OpenStreetMap. App is responsive on both desktop and mobile, even if it was not made as mobile first. But I have added support for mobile. It works well on Firefox, Safari, Edge and Chrome. Applications JS are in its own folder and so is CSS, it has single html file.

The webpage has an interactive map and charts that have features to select different types of data and show it in different forms. The map also has different settings to change how it shows different layers. You can click on the map to show more info about the municipality. You can also export the chart in SVG. The site has nice looking frontend with CSS using Flexbox. It has default mode in retro style and "dark mode" that can be selected in the page. It also has modal element to act as a manual for the page.

Below the intended points (own features are in italic):

Feature	Max points
Well written PDF report	3
Application is responsive and can be used on both desktop and mobile environment	4
Application works on Firefox, Safari, Edge and Chrome	3
The application has clear directory structure and everything is organized well	2

The application show relevant data on a map and user has change to change the data	3
The application show relevant data on a chart and user has a chance to change the data	3
User is able to switch between different layers of data on map	2
By clicking the map user has an option to get to additional charts covering that area	4
There are more than two items of data available (e.g. elections data, employment rate and number of residents) – this means that there are two API calls made	4
<i>Users can define how the data is shown in the chart (line, bar or pie)</i>	2
Able to download the visualization as a PNG (or SVG) image	2
<i>The webpage has nice looking interface</i>	2
<i>There is to modes default and dark mode</i>	3
<i>Webpage has manual on how it should be used</i>	3
<i>Webpage uses two frameworks (Frappe carts and Leaflet maps)</i>	3
<i>Points together:</i>	43