

CT30A2910 Introduction to Web Programming

Project 2: Statistic portal

Toni Koskinen, toni.koskinen@student.lut.fi

I have created an application which visualizes results of the municipal elections from 1992 to 2021. The user can see which parties have won in each municipality and see how the support of the parties has changed in each municipality during these years. The election data are fetched from a Tilastokeskus API. Visualizations are implemented using a map and a chart. Based on the selected election year, each municipal area is coloured based on the winner party of that area. By clicking the map, the user can open a chart representing the support of the parties from 1992 to 2021. The interactive functionalities of the map have been created using Leaflet framework, and the chart visualizations have been created using the Frappe-chart JavaScript library. Based on the previous election results, the user can add predictions to the data to see how the party support and the winners might change in the following years.

I would like to note that the data visualized in the application shows only the municipalities that haven't been merged to other municipalities to this day. For example, there is no election data available about Joutseno, because it has been part of Lappeenranta since 2009. The visualization has been also limited to show the election data of the nine largest parties in Finland.

Feature (justification)	Points
The application shows relevant data on a map and user has a chance to change data (election data & data prediction)	3
The application shows relevant data on a chart and user has chance to change data (election data & data prediction)	3
By clicking the map user has an option to get additional charts (by clicking a municipality a chart shows the support of different parties in different years in a municipality)	4
User can switch between different layers of data on map (each municipality has its own layer)	2
User can change the colours of the map (based on the election year, each municipal area is coloured based on the winner party)	2
Application is responsive and can be used on both desktop and mobile environment (media query for screens which size are less than 800px)	4