CT30A2910 Introduction to Web Programming   19.07.2024
Project work   Simon Ihegbu

What was done

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The project's environment was set up. VS code editor was chosen as the main code editor (IDE) because I am already familiar with the editor, so it was easier to continue with it. Also, when all the extensions were installed, the editor became an Independent Development Environment (IDE) where the project could be run in real time and tested.

I created the HTML file, the CSS file, and the JavaScript file. The CSS and JavaScript files were linked up with the html file. I created the project's repository in GitHub and did the initial commit which went successfully.

The tools used

As a starting point, HTML, CSS, and JavaScript are the main tools for the project; other tools include, Leaflet, a JavaScript library for creating maps, and Frappe, also a JavaScript library for creating charts. Git is used for version control while GitHub is used for hosting the project's repository.

Project selection process

There are three project options to select from, Project 1: Music Maker, Project 2: Statistic Portal, and Project 3: HTML5 game. Project 1 is about creating a music player, project 2 is about fetching data through the API and doing something with the fetched data, whereas project 3 is about game development using HTML5. I chose Project 2 (Statistics portal) because it is interesting, and I wanted to learn more about API fetching.

Features and points expected from them

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

CSS, JavaScript, and HTML are in different files and are linked together	5
Application works	3
Appropriate content	3
The application shows relevant data on a map, and the user has the chance to click the map	3
The application shows relevant data on a chart, and the user has a chance to print the chart	3
By clicking the map user has the option to see a pop-up	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 at least two API calls made	4
There are more than two API calls	2
Able to download the visualization as a PNG (or SVG) image	2
The project is saved in the Git repository, and its activities can be tracked	3

GitHub link for the project: https://github.com/simonschamp/iwp-project

GitHub username: simonschamp