Week_5_pf

Based on your front-end design proposal, respond to the following questions:

- What languages would you integrate into your front-end project?
    - Explain your rationale.

A web application's building blocks are: HTML, CSS and JavaScript.

HTML stands for Hypertext Markup Language. It is used to create a "document". It defines a structure, layout, titles, metadata. As Tim Birners-Lee defined it as a publishing language. In other words, we have an internet, if you want to publish something there is a way - html. HTML itself cannot handle proper style. So to fill this gap, we use CSS - cascading style sheets. From now on - a web page looks more attractive. But, we would like to iterate with API, Application programmable interfaces, add actions to buttons, to scroll bars or show gifs. Charlez Punchatz explains: "Marc Andreessen, founder of Netscape Communications, believed that, as such, a small scripting language was needed that could interact with the DOM (Document Object Model or computer programming interface for HTML and XML documents), making content more dynamic and interactive." Now JavaScript is part of standard ECMAScript 34.

As owners of web applications we would like to be able to represent context on different devices, like desktop computers, laptops, mobile phones and what not. So, bootstrap comes to help. It also provides UI components like navigation bar, buttons, tables, pop up dialogs etc.

- What strategy or strategies would you use to update your website. Explain.

If we look back to the first week of our course we can understand that each week we do some changes in our web application. How do we do this?
A version control - github. It keeps track of any committed change. It provides history of the changes. During the development, we need to understand a problem. We debug it until we are good at fixing it. Next, we should be sure that our code works as expected, so we test our modules, classes and functions. When deployed we test e2e. Because from the beginning we chose github, we also got an automated deploy mechanism as Actions. Github pages automatically update after each commit.

What we do not currently have is monitoring, logging and backup.
Our documentation is a single document, README.md. However, if we need more, we can add more md files and link between them.

Self reflection
The first shock was a challenge. I was thinking - it is going to be easy. After downloading a zip file I started to realize that I do not know what to do. I had googled to get clues. At some point in time, I got a clear picture of what to do and how to achieve it.

The next was a discussion forum to explain what was a challenge. To have technical problems is something easy to handle. To explain how it was, another challenge.
Of course the third challenge was to define the specification of the web application, what technologies to choose, what fits best and why.

References:
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3. Why to use Bootstrap - https://bootstrapbay.com/blog/why-to-use-bootstrap-5-advantages-of-bootstrap/
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