VueJS

Overview

Vue is a fabulous framework. Thanks to its potential, you will build a small SPA capable of rendering a gallery of images from a public API. The objective is to put into practice the combination of several technologies to assimilate the concepts in a single project.

Table of Contents

Project Requirements

- Create a clear and orderly directory structure
- Both the code and the comments must be written in English
- Use the camelCase code style for defining variables and functions
- In the case of using HTML, never use online styles
- In the case of using different programming languages always define the implementation in separate terms
- Remember that it is important to divide the tasks into several sub-tasks so that in this way you can associate each particular step of the construction with a specific commit
- You should try as much as possible that the commits and the planned tasks are the same
- Delete files that are not used or are not necessary to evaluate the project

Risk Management Plan

Every project has risks. These risks must be taken into account to improve the workflow of the project. I've listed the risks for the project, along with the impact they might have, and the priority of them.

iD	Risk	Consequence	Prob. (1-5)	imp. (1-5)	Pri. (1-25)	Mitigation approach
1	Breaking my computer	Can't do anything	1	5	5	Keep my repo work to date, look for other computers
2	Getting sick	Wouldn't be as productive	2	3	6	Eat and sleep well
3	Not concentrating enough	Difficulty concentrating	2	5	10	Focus on the Minimum Viable Product.
4	Unrealistic deadlines	Deadlines wouldn't be met + development	2	3	6	Be more organized with the tasks, set new deadlines.

		shortcuts would have been taken affecting the robustness of the code				
5	Being unfocused	Loss of control over the development flow of the project	4	5	20	Focus on finishing the most important tasks only.

Project Tasks

Defining this part is crucial to the development of the project. It is important to make a good analysis of the situation to organize the project in a good way:

#	Task	Priority (1-5)	Description	Difficulty (1-5)	Estimation
1	Reading the description	4	Reading the description of the project	1	30 min
2	Create Repo	3	Creating git repo for the project	1	2 min
3	Configure the work environment	3	Configure the work environment and install the dependencies	4	45 min
4	Configure JSON server	3	Configure JSON server to work with the API	2	10 min
5	Control how many images you get from the API	5	Create a function to control how many	5	1 hr
5.1	Research	4	Research ways to control how many images to get from the API	4	2 hr

5.2	Implementation	4	Implement one method to know how to control how many images to get from the API	3	1 hr
6	API consumption	4	How to consume the API in a paginated way (obtain blocks of images in each request). Use DB.json and json server	4	2 hr
6.1	Control number of requests made to the API	4	Control number of requests made to the API. Only load some images at a time.	5	1 hr
6.2	Make another get request for updating the scroll event	4	Make another request from API when 5 images have been displayed in the website	5	1 hr
7	Understand how to work with data of a VueJS component	4	Understand how to use Vue and axios to get data from the api and use the data for the objectives of the pill	3	1 hr
8	Understand the methods of a Vue component and put them intro practice	3	Create methods in VueJS to add functionality to the app	4	1 hr
9	Review	2	Review Project	2	30 min

Git Workflow

For this project, all commits we'll be pushed directly to the Master branch. All commits will use a descriptive message, so that myself or other users can easily go to the Git version that they need to. This is very important for working in teams as it increases communication and efficiency between all members.

Technologies used

- VueJS
- Visual Studio Code
- JSONholder API

Lessons learned

- VueJS is an open-source model-view-viewmodel Javascript framework for building user interfaces and single-page applications.
- Vue components extend basic HTML elements to encapsulate reusable code
- Vue features a reactivity system that uses plain JavaScript objects and optimized re-rendering. Each component keeps track of its reactive dependencies during its render, so the system knows precisely when to re-render, and which components to re-render.

Incidents

- In the beginning, some difficulty rendering images.
- Some difficulty in learning how to use templates.
- Some difficulties usingSass in the project.