l'école/it

École Supérieure des Technologies de l'Information

Web introduction course with React

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1.   Introduction

With the increasing use of data, a company has decided to acquire and incorporate additional data from online sources into their AI algorithms to obtain more accurate results and provide more useful information to their users.

They have asked for your assistance in identifying the contents of these APIs and visualizing the data, so they can determine its accuracy and usefulness for their purposes. There are no restrictions on the type of API you can choose.

Additionally, the company has decided to create a webpage to make the data publicly available.

They also want to help developers stay up to date with accessibility standards to ensure that their website is well-structured and compliant with accessibility guidelines. Your role is to find some website and use the tool in the annexes to help them by writing a small report.

2.   Project

a. File structure (2 points)

It's important to have a file structure that is easily readable and understandable, so that anyone can quickly grasp the meaning and purpose of each component without having to dive into the file's contents.

A well-organized and documented file structure can contribute to efficient collaboration and maintenance of a project.

b. API (5 points)

In this course, we have mentioned that there are numerous APIs available on the internet. You have the freedom to choose the API that best fits you.

You can refer to the annexes, which have webpages, to find a selection of APIs that you can explore and evaluate. These annexes may contain information about different APIs, including their functionalities, features, and documentation. By referring to these annexes, you can easily identify and select an appropriate API.

c. Front Page (6 points)

In the course, React is used as the front-end framework, and you should utilize it to visualize and present the information. All pages should be visually appealing and easily readable.

You can leverage CSS to enhance the appearance of the pages or utilize available tools like Tailwind CSS or Bootstrap to streamline the styling process.

Feel free to choose the tools or libraries that best suit your needs and preferences and use them to create visually appealing and user-friendly web pages.

The goal is to ensure that the information is presented in an engaging and visually pleasing manner while maintaining readability for users.

d. Accessibility (2 points)

It's essential to ensure that everyone has access to the internet and can easily use websites to accomplish their desired tasks. Whether you are creating a website in the future or working on an existing website, it's important to prioritize accessibility and usability for all individuals.

Web accessibility is not only a legal and ethical obligation but also a way to promote inclusivity and provide equal access to information and services. By designing websites with accessibility in mind, you can ensure that all users, regardless of their abilities or disabilities, can navigate, understand, and interact with the website easily.

You can choose one of the gov website and use the tool in the Annexes to help you. Make a like document to explain what you have discover and what can be done to improve the website accessibility.

e. Bonus (5 points)

You can do something new, different, and let me see what you can do with react or another tool. Can't wait to see amazing work. Thanks.

3.   Annexes

- https://api.gouv.fr/rechercher-api
- https://jsonplaceholder.typicode.com/guide/
- https://rapidapi.com/fr/collection/list-of-free-apis
- Tool: https://validator.w3.org/

4.   Rules

In the project, you should use what you have seen in the courses to create a beautiful page.

The project can be done in pairs.

Each group with more than two students will not be evaluate and discarded.

5.   Delivery

You can deliver:
- A zip file containing all your resources (the build part)
- (Not mandatory but appreciate, a github of your projet)
- A document where you explain what you have done.