Unit 19 Challenge

#Description:

Work on this project was implemented at the request of the client, whose user story stated the following: “AS A developer I WANT to create notes or code snippets with or without an internet connection SO THAT I can reliably retrieve them for later use.”

To satisfy the requirements of the client, I have been tasked to build a text editor that runs in the browser. The app will be a single-page application that meets the PWA criteria. Additionally, it will feature a number of data persistence techniques that serve as redundancy in case one of the options is not supported by the browser. The application will also function offline.

To build this text editor, I will start with an existing application and implement methods for getting and storing data to an IndexedDB database. I will use a package called `idb`, which is a lightweight wrapper around the IndexedDB API. It features a number of methods that are useful for storing and retrieving data, and is used by companies like Google and Mozilla.

##Acceptance Criteria:

GIVEN a text editor web application

WHEN I open my application in my editor

THEN I should see a client server folder structure

WHEN I run `npm run start` from the root directory

THEN I find that my application should start up the backend and serve the client

WHEN I run the text editor application from my terminal

THEN I find that my JavaScript files have been bundled using webpack

WHEN I run my webpack plugins

THEN I find that I have a generated HTML file, service worker, and a manifest file

WHEN I use next-gen JavaScript in my application

THEN I find that the text editor still functions in the browser without errors

WHEN I open the text editor

THEN I find that IndexedDB has immediately created a database storage

WHEN I enter content and subsequently click off of the DOM window

THEN I find that the content in the text editor has been saved with IndexedDB

WHEN I reopen the text editor after closing it

THEN I find that the content in the text editor has been retrieved from our IndexedDB

WHEN I click on the Install button

THEN I download my web application as an icon on my desktop

WHEN I load my web application

THEN I should have a registered service worker using workbox

WHEN I register a service worker

THEN I should have my static assets pre cached upon loading along with subsequent pages and static assets

WHEN I deploy to Render

THEN I should have proper build scripts for a webpack application

Github Repo Link:

<https://github.com/vicduar/PWATextEd19.git>

Render Link:

<https://pwatexted19.onrender.com>

##Installation:

The project was created using VS Code editor where apollo client, react-bootstrap, graphql, react, at vitest were used to synthesize the framework, database, and libraries used. Once complete, the project was uploaded to a Github repository.

##Usage:

The project was created and completed using VS Code. It was then loaded into Render, a web hosting solution used for hosting full-stack applications.

##Contributions:

Github (2024). A free web-service for storing and deploying websites. Multiple pages retrieved and utilized from www.github.com May 9, 2024.

Meyers, M. (2024, May 9). Tutoring session via Www.zoom.us . Denver University Bootcamp.

##License

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