PROJECT JAVASCRIPT

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THE CONTEXT

1. OVERVIEW

Developed the music website based on public repository HTML CSS template on Github by Rajeev Kumar Sudhansu. The main features will provide a playful music website for users and easy to use when they interact with website by dynamic music playlist, create their own favorite playlist by interact with buttons.

2. FEATURES ADDED AND HOW THEY WOULD ENHANCE THE PAGE(S) / SITE.

The enhanced features of the website include:

- Dynamic music playlist rendering from provided data.
- Play/pause functionality for each track.
- Volume control for audio playback.
- Liked button functionality to add/remove tracks from favorites.
- Interactive queue and music card generation.
- Pop-up notifications for user actions.
- Customize the avatar profile bas on login information inputted.

3. JAVASCRIPT TECHNIQUES USED

The implemented features are facilitated by various JavaScript techniques which are studied in classes:

1. Event handling for play/pause, volume control, and liked button toggling.
2. Applied programming HTML and CSS to generate dynamic music cards.
3. DOM manipulation for rendering dynamic playlist and music cards.
4. Local storage utilization to store user's favorite tracks, Local Storage also the main technique to interact between Favorite page and Main page to let users save their favorite songs through hit liked buttons. By then develop the playlist in Local Storage and additional function next or previous music that in main page doesn't have that feature.

5. Audio element manipulation for track playback and time management.

6. Conditional rendering based on user actions and data availability.

7. Interact between Login page and Main page by cookie, to check the email and password that user input are match with the existed data in user array variable and then modify the log in button based on data retrieved and stored in cookie.

4. HTML AND CSS VALIDATION RESULT AND THE BROWSER TESTING RESULT

The HTML and CSS files have been validated and all result have been taken screenshot in Validation folder with the browser testing result both on *pagespeed.web.dev* and *lighthouse*

5. PROJECT WORK EXPERIENCE

It took me **two months** to complete the project.

From the project work I learned the following:

The first and foremost that I have learned from the project is debugging whenever the program didn't work, some technique such as console.log(), check from which part the code has error, refer from multi communities for developers.

Understanding complex technique of JavaScript which are hard to get them all if just only spend small time in class such as DOM, Local Storage, listen to event of browser, ect.

Learning how to clean code, clean the repeat codes, create global or private variables scientifically.

There are very diverse source that help me to create the functions helped for my project, in specific, **I found the following helpful for completing the project:**

1. Stackoverflow
2. Freecodecamp
3. Github.com
4. ChatGPT
5. Youtube (with suitable and smart keyword)

The difficulties I encountered with the project:

I was dealing with a lot of difficulties in the project but there are 2 most difficulties I encountered with the project:

Interact between Login page and Main page by cookie, to check the email and password that user input are match with the existed data in user array variable and then modify the log in button based on data retrieved and stored in cookie take me a huge amount of time to figure out how does it work.

Interact between Favorite page and Main page by local storage to let users save their favorite songs through interact liked buttons. By then develop the playlist in Local Storage and additional function next or previous music that in main page doesn't have that feature. It took me most of the time to find out the solution.

Other comments and suggestions:

Even though the materials for this project very well organized and detail, there is a small suggestions that I would like to contribute for further improvement:

Previous student example: it will be helpful for new students if have the reference in both deployed website and report from the completed project of previous outstanding students to let them have the overview of the outcome project requirements, workload that they will do and estimate time spend for the project.

Follow up the project process: this project need to be involved a lot of time since receive the requirements, that would be better if we would divide into some small steps to see if students are behind or meet the deadline, write the process after project proposal and catch up every two weeks in general such as at that time where should we complete, could help learners be aware of where they are.

6. CONCLUSION

A lot of opportunities to apply or play in this project as I can pick my preference topic and website that I am interested in to develop. During perform project help me to review the lessons which are studied in classes, continuously improve in coding skills. Overall, the project provided valuable experience in web development and JavaScript programming. I would like to express my high appreciation for all of valuable advice and feedback to Brian who help me a lot at the beginning in this course.

REFERENCE

https://github.com/rajeevkrS/Music-Website

https://stackoverflow.com/questions/2144386/how-to-delete-a-cookie

https://chat.openai.com/

https://www.youtube.com/@codehal