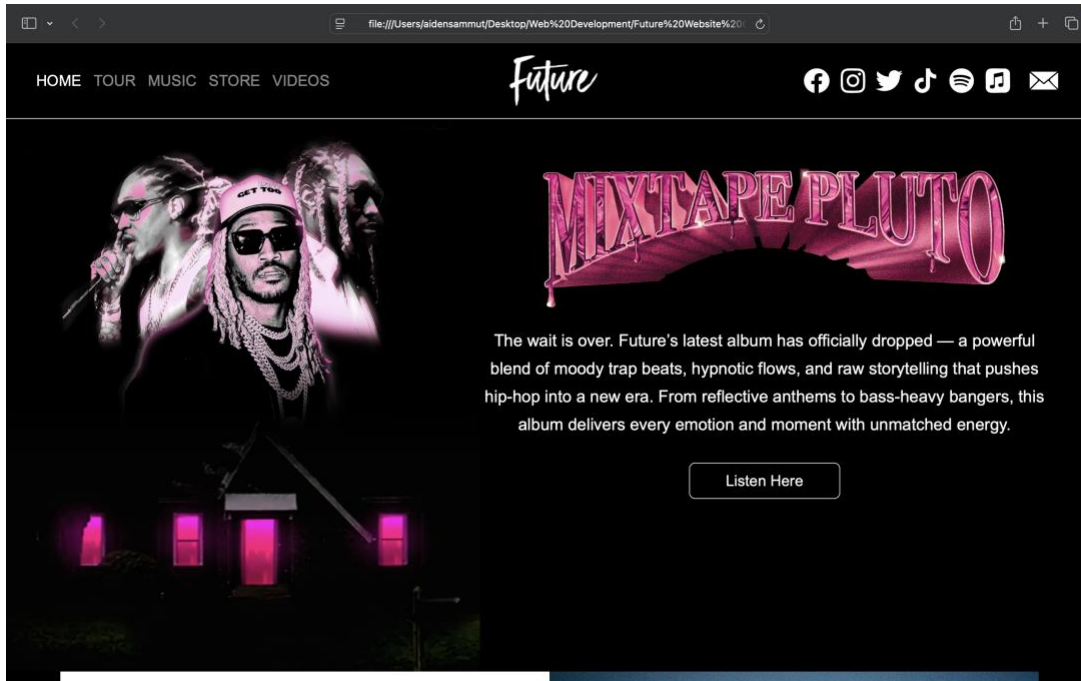


Web Development Task 4

CA-GRD 5.1A

Aiden Sammut



1. Functional Testing Based on IPO Chart

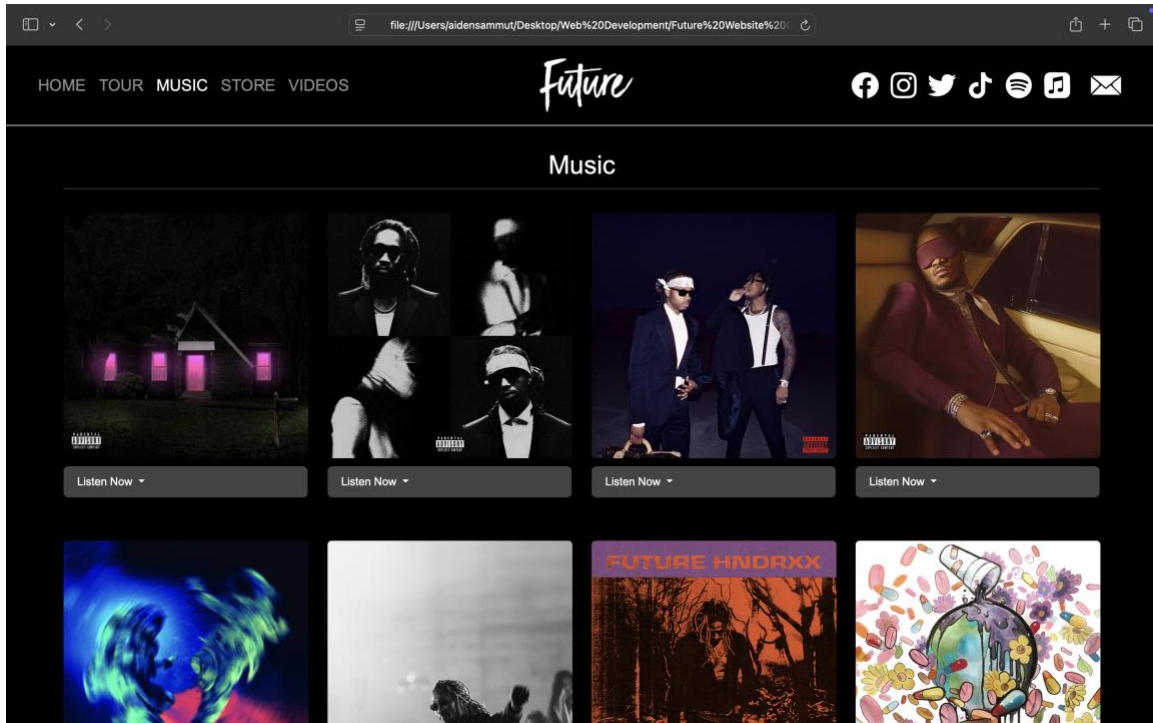
Tested Action	Expected Output	Actual Output	Pass/Fail	Notes
Navigation links from homepage (e.g. Tour, Music, Store)	All buttons should redirect to the correct page	All links functioned correctly	Pass	N/A
Music streaming embed works on Music page	Albums and singles should be playable	Works as expected with embed code	Pass	N/A
YouTube video section on Videos page	Video should open in modal or link out	Video redirects correctly to YouTube	Pass	N/A
Contact form (if applicable) validation	Error messages should show if input is invalid	Fields didn't show error highlights	Fail	Added 'required'
Responsive layout on tablet and mobile	Layout should adjust based on screen size	Elements overlapped on mobile	Pass	N/A
Keyboard navigation accessibility	Tab key should navigate to all links/buttons	Fully keyboard accessible	Pass	N/A
Colour contrast compliance	Text should be readable against backgrounds	Button text was good	Pass	N/A

2. Code Validation

I validated my code using official HTML and CSS validation tools provided by W3C. These tools helped me identify issues such as unclosed tags, incorrect nesting, and missing attributes. After validation, I went back into the code to resolve all the highlighted errors and warnings.

To ensure best practices were followed, I also double-checked for accessibility issues and semantic correctness making sure elements like headings, links, and alt text were properly used.

3. Current Issues and Improvements



Current Issues

- Some animations may be distracting for users with cognitive conditions.
- Long homepage scroll can be overwhelming.
- YouTube and music links redirect could break immersion; embedding is more user-friendly.

How To Remedy

- Add a "Reduce Motion" toggle in accessibility settings.
- Break homepage into sections using anchor navigation.
- Use modal popups for videos instead of full-page YouTube links.

Future Improvements

- Implement a dark/light theme toggle.
- Add language translation toggle (e.g. English/Spanish).

Conclusion

Overall, this project has been a valuable learning experience. Throughout the year, I gained a much deeper understanding of web development, especially in how to structure and design accessible, user-friendly websites. I'm proud of the result this is the most complete and functional website I've created so far using HTML and CSS.

Introducing Bootstrap into my workflow was a game-changer. It significantly improved my efficiency and helped streamline the design process, especially when making the site responsive. I now feel more confident about building more advanced websites in the future and applying best practices from both a visual and technical perspective.

This project not only strengthened my coding skills, and I look forward to continuing to improve and expand my web development abilities.

The End