Project Kigo - Kelly Lowrance, Noah Kabel, Sam Allen

Schedules:
Planned Schedule:
(Weeks 1-2) Research & Planning

- Research APIs (Spotify, Genius)
- Define project scope and features

(Weeks 3-6) Development

- Integrate listening history retrieval
- Integrate song lyrics retrieval
- Develop an algorithm to generate the haikus

(Weeks 7-8) User Interface Design

- Design GUI layout and features
- Implement haiku display

(Weeks 9-10) Testing

- Conduct testing
- Gather user feedback for improvements

(Weeks 11-12) Documentation & Finalization

- Prepare user documentation and specifications
- Finalize project for delivery

Actual Schedule:
(Sep 1-3) Project Ideation

- Brainstorm ideas for the project

(Sep 4-5) Research APIs: Kelly, Noah

- Research APIs (Spotify, Genius)
- Define project scope, features, and key functionalities

(Sep 16–20) Set Up Repositories: Sam

- Create GitHub Repository and necessary branches
- Configure repository to use GitHub Pages for static webpage hosting

(Sep 20-Oct 10) Pulling user songs using Spotify API: Noah

- Setup environment with dependencies for Spotify API.
- Develop code to pull top songs from a user.

(Sep 21–Oct 5) Spotify API Integration: Sam

- Integrate Spotify authentication functionality written by Noah into existing GUI
- Test the authentication flow and refine the process

(Oct 6–20) UI Development: Sam

- Design user interface, including decorative elements such as the background, logo, and cursor
- Develop and implement core GUI functionality for navigation and interactivity

(Oct 20-Nov 10) Pull Song lyrics using lyrics.ovh: Noah

- Integrate lyrics.ovh API into environment.
- Develop code to retrieve lyrics for a given song.

(Oct 21–Nov 20) Syllable Counter Development: Kelly

- Write the initial algorithm for syllable counting
- Test and optimize algorithm for accuracy

(Nov 11–20) Haiku Generator: Kelly

- Develop logic to match processed lyric lines to a 5-7-5 syllable pattern and generate haikus
- Test haiku generation for consistency and variability

(Nov 21–29) Integration Front-End/Back-End: Sam

- Connect the Node.js backend to the React frontend
- Set up routes for various tasks such as Spotify authentication, lyric fetching, and haiku generation

(Nov 30–Dec 2) Testing and Debugging: Team

- Conduct unit, integration, and system testing across all components
- Address any remaining issues

(Dec 3) Final Submission: Team

Actual Schedule Gantt Chart:

Gantt Chart for Full Kigo Project