# Fix Your Mix

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# What is Fix Your Mix?

Fix Your Mix extends the existing Spotify playlist functionality, allowing users to:

- Sort and filter playlists
- Create new playlists with songs from others
- Delete unwanted user playlists
- Preview your playlists

# Tools Used

Version Control System (VCS) - Github:  ★★★★★

- Used to track code version and allow multiple developers to work at the same time on different parts of the application

Integrated Development Environment (IDE) - VS Code:  ★★★★★

- This is the environment that we used to code the application. It can support many different languages.

External API - Spotify:  ★★

- We utilized the Spotify API to access the users playlists and modify them in our application

Deployment Environment - Render: ★★★★★

- Used to deploy our application to the cloud and allow anyone to access it without having the repository locally

# Tools Used

UI Tools - HTML/CSS, Handlebars: ★★★★

- We used these to display the site to users in a clean and friendly way.
- Handlebars allowed us to reduce repeated code and instead block code to be used elsewhere

Backend Tools - JavaScript, ExpressJS: ★★★★★

- Languages and tools used to create route for the front-end to talk to the server as well as allow us to send requests to the Spotify API

Methodology - Pair programming: ★★★★★

- Consistently worked together in-person to allow efficient work

# Tools Used

Database - PostgreSQL:  ★★★★★

- Stored all data from the user and the Spotify API. Database queries were used to access and modify it as needed

Application Server - NodeJS:  ★★★★★

- This is the environment that we used to code the application. It can support many different languages.

Project Tracker - Github Project Board:  ★★★★★

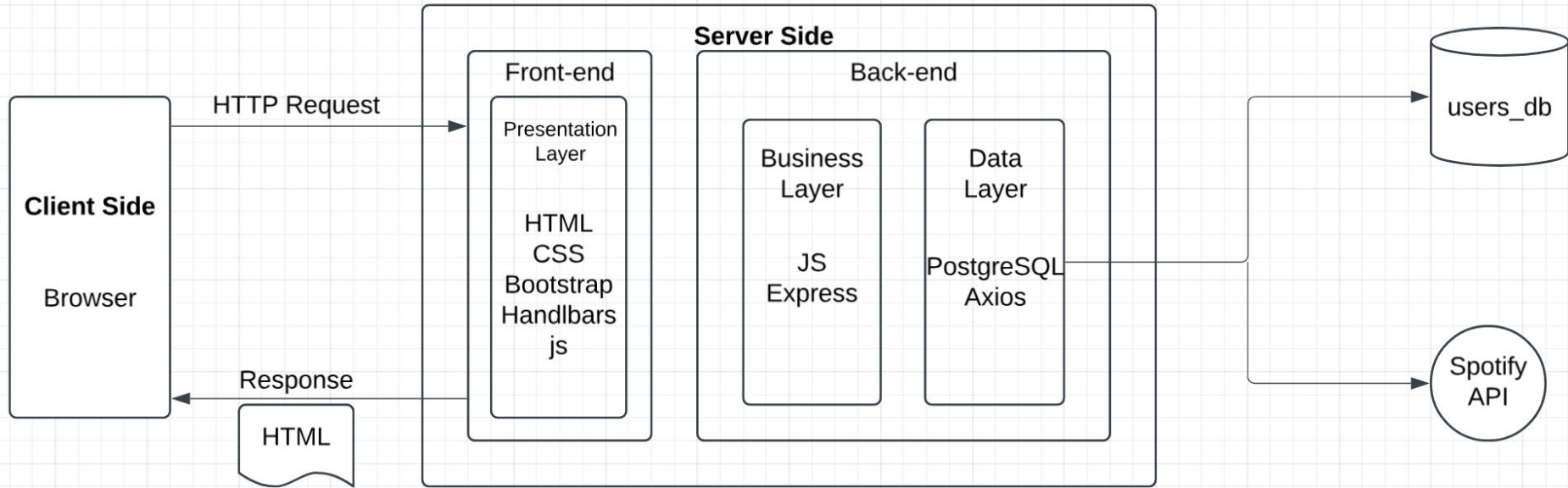- Used to track user stories and development efforts accessible to the entire team

Testing Tools - Mocha/Chai: ★★★

- Library used for testing functionality of the application

# Architecture Diagram

# Challenges

- Limited Spotify API functionality: had to create workarounds and implement proof-of-concept functionality
- Git merge conflicts
- Poor initial project setup (bad file structure)
- Unclear project direction and goal at start

# Future Scope/Enhancements

- Expanded filtering/sorting capabilities
- Increased configuration of playlist details upon creation/edit
    - Ex. description, collaborative and private/public properties
- Display concerts near the user for artists in a playlist
- Integration with Apple Music
- Proof of concept implementation
    - Fully delete playlist from Spotify
- Making fully accessible to all users
- Improved styling with more responsive elements (ex. visualizer)

# Live Demo!

# Recorded Demo