

CS501 Group Project Plan

Lucy Schofield, Brandon Bouley, Nora Bockert

Assignment #1 - Proposal:

1. Requirements:
 - a. One-page project proposal and slides detailing App concept & purpose
 - b. Selected database, API, and sensor
 - c. Target two device types for testing
 - d. Initial wireframes or sketches
 - e. Submission via GitHub repository setup with README
 - f. 7 minute presentation to the class
2. App: Letterboxd for music (PITCH)
 - a. What we need: Big music DB + separate (dynamic) DB to log comments and ratings, Sensor = Camera? (to take picture of yourself for profile pic?), google OAuth for account creation, login/loading page, user profile page, explore/feed page, search page (to search for music and see comments other people made),
 - b. Functionality:
 - i. User creates account (maybe google oAuth)
 - ii. Each user has homepage with a bio, profile pic, number of songs rated, follower count
 - iii. User can create a post: search for a song, rate out of 5 stars, and leave a comment
 - iv. Maybe a “users that liked this are also listening to” and provide song suggestions
 - v. Possibly an export button after making a post→ allows user to download a little picture of the song, their rating, and comment
 - vi. Possibly can link with spotify/apple music?
 - vii. Eventually, but not necessary: Users can search for other users and follow each other, “feed” page with your following

Database: I’ve heard good things about PostgreSQL through some googling, it’s a popular open source database. We can have profile data, posts, songs, reviews, etc. as discrete tables. And use SQL queries to search profiles to add friends, look up songs / albums to review.

APIs We can at least build our song library off the Spotify for Developers API

Sensor: Accelerometer for random shake-to-review function? Camera for profile photo is good.

Device types: Tablets and mobile phones, maybe the main page has more detailed information or a different layout on a bigger screen?

App Name Submissions: “Needledrop”, “PITCH” (it’s avant garde), “reverb”