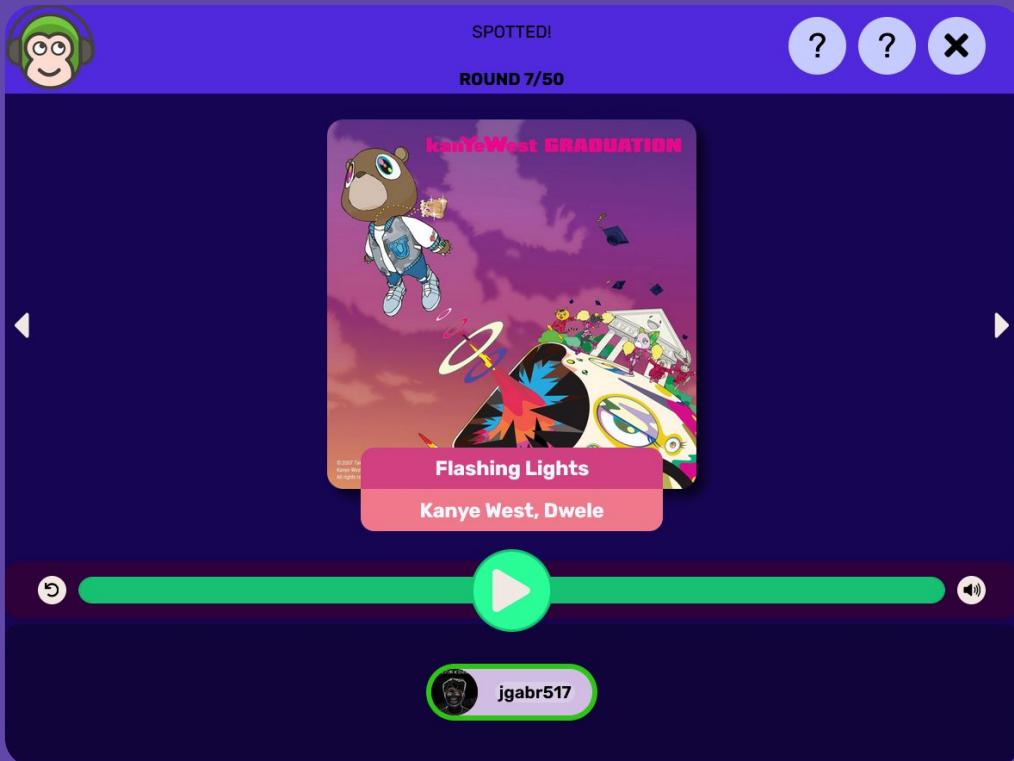




**By: Jesse Gabriel & Drew Schiller**

# What Is SPOTTED?



- A game that involves your music taste and how well you know your friends.
- Each Player joins by linking their Spotify Account.
- Each round, a new song is selected. The goal is to guess which one of your friends has the song in their playlist.

**FEATURES:** Multiple game-modes & adjustable settings

# DEVELOPMENT PLAN



Front-end: Jesse

- Directory and component structure
- Design and styling
- Both involved with linking and general vision for the project

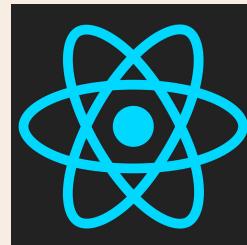


Back-end: Drew

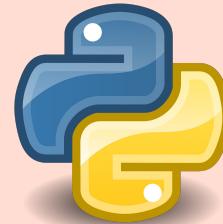
- Connection to Spotify API
- Game Session Management
- Custom API for frontend
- Both involved with linking and general vision for the project



# TECH STACK



Sass



Flask

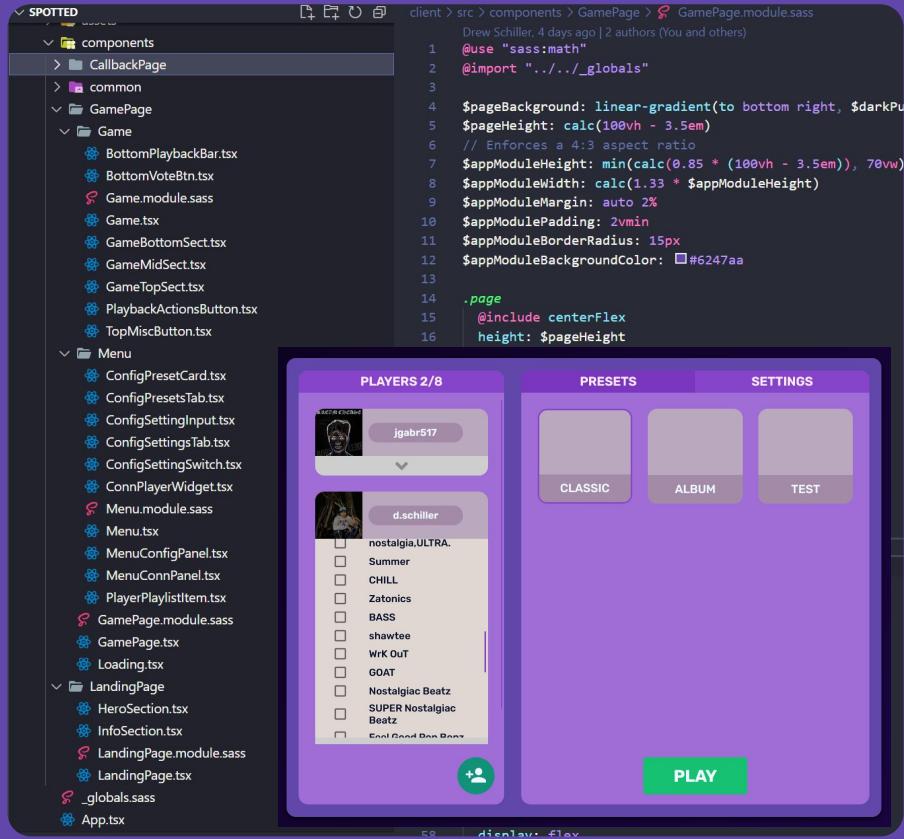


# THE BACKEND (API)

- Backend uses Spotipy library for API calls to Spotify
  - Stores game and Spotify data in sessions
    - Sessions are encrypted and cached per instance of the site
  - Client manages backend game state using Flask API calls
  - Currently, session data is stored on our filesystem, we have plans to implement a database

# THE FRONTEND

- Mainly built with React and SASS
- Reads session data using calls to backend Flask API
- Large number of components required the development of specific organization schema involving file structure, and naming convention
- SASS modules used for styling UI with modularity and level scoping of variables



The image shows a code editor window and a mobile application interface side-by-side.

**Code Editor (left):**

- File structure:
  - components
  - common
  - GamePage
  - Game
    - BottomPlaybackBar.tsx
    - BottomVoteBtn.tsx
    - Game.module.sass
    - Game.tsx
    - GameBottomSect.tsx
    - GameMidSect.tsx
    - GameTopSect.tsx
    - PlaybackActionsButton.tsx
    - TopMiscButton.tsx
  - Menu
    - ConfigPresetCard.tsx
    - ConfigPresetsTab.tsx
    - ConfigSettingInput.tsx
    - ConfigSettingsTab.tsx
    - ConfigSettingSwitch.tsx
    - ConnPlayerWidget.tsx
    - Menu.module.sass
    - Menu.tsx
    - MenuConfigPanel.tsx
    - MenuConnPanel.tsx
    - PlayerPlaylistItem.tsx
    - GamePage.module.sass
    - GamePage.tsx
    - Loading.tsx
  - LandingPage
    - HeroSection.tsx
    - InfoSection.tsx
    - LandingPage.module.sass
    - LandingPage.tsx
    - \_globals.sass
    - App.tsx
- File content:

```
client > src > components > GamePage > GamePage.module.sass
Drew Schiller, 4 days ago | 2 authors (You and others)
@use "sass:math"
@import "../../_globals"

$pageBackground: linear-gradient(to bottom right, $darkPurple, $lightPurple);
$pageHeight: calc(100vh - 3.5em);

// Enforces a 4:3 aspect ratio
$appModuleHeight: min(calc(0.85 * (100vh - 3.5em)), 70vw);
$appModuleWidth: calc(1.33 * $appModuleHeight);
$appModuleMargin: auto 2%;
$appModulePadding: 2vmin;
$appModuleBorderRadius: 15px;
$appModuleBackgroundColor: #6247aa;

.page
  @include centerFlex
  height: $pageHeight
```

# DEMO

# CURRENT LIMITATIONS

- Liked song fetching limited
- Doesn't work with other Spotify accounts not in the developer console
- Artist info limited
- Not many presets yet
- Session data is currently stored on filesystem



# WHAT WE LEARNED/CHALLENGES

## We Learned A LOT

- How to structure a full-stack web application
- A Significant amount of CSS (SASS)
- Working with React (Hooks, Contexts, useRef...)
- Using Git for productivity (Branches, merging & issues)

## Challenges Faced:

- Getting Authentication to work
- CSS Challenges: Scrolling text animation, container aspect ratio

# FUTURE PLANS/GOALS

## Bug Fixes

- Handling Errors Better, Fix current limitations
- Reorganizing Codebase

## Features:

- Game Modes involving:
  - Selection Voting: “Who doesn’t listen to \_\_”
  - Statistics: “Who listens to artist/song the most?”
- Design: finishing up styling, animations ...
- And much more.

# THANK YOU!

Questions?

