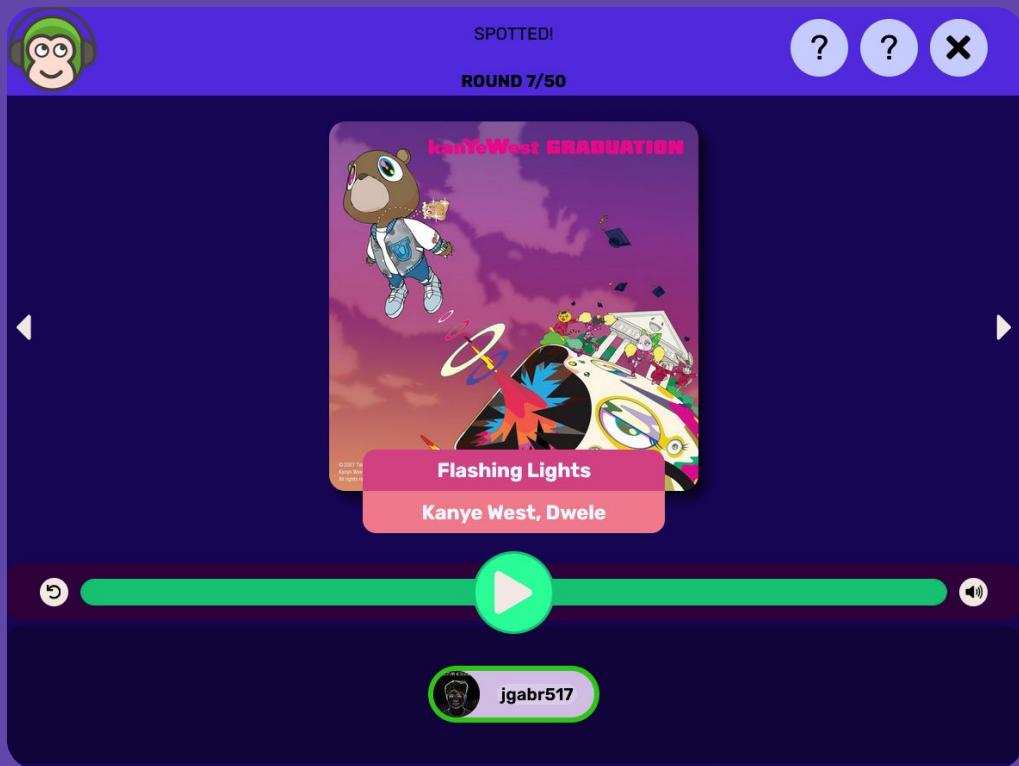




By: Jesse Gabriel & Drew Schiller

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

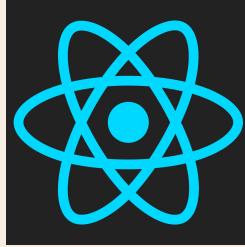


Back-end: Drew

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



TECH STACK





THE BACKEND (API)

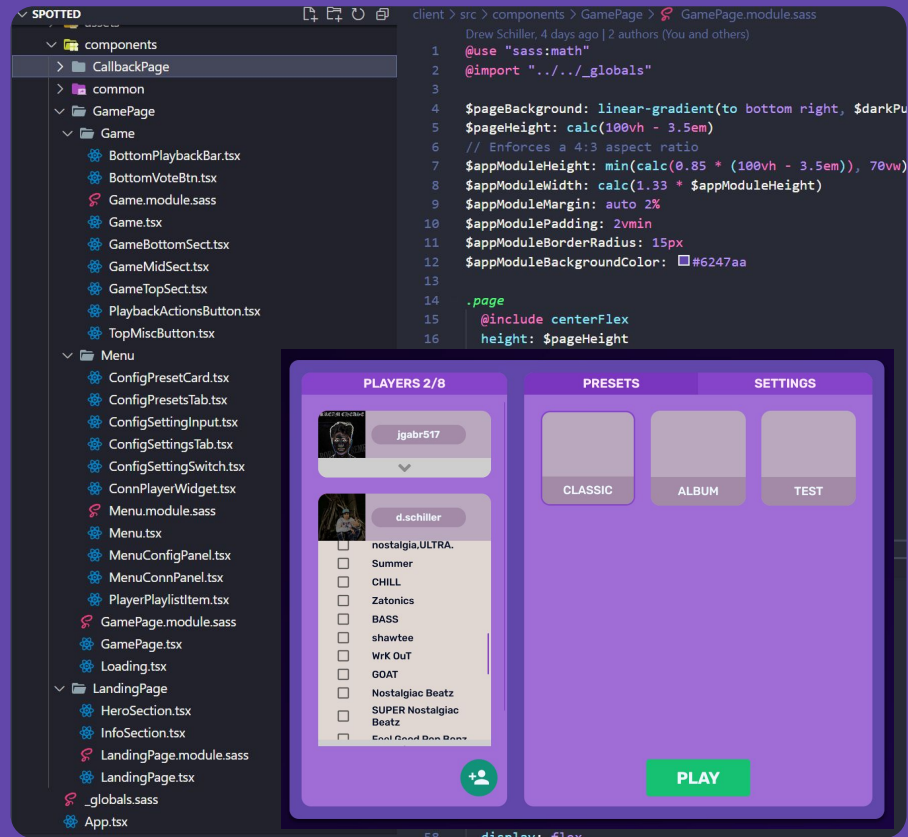
```
SPOTTED
├── client
├── server
│   ├── _pycache_
│   ├── flask_session
│   ├── spotify
│   └── _pycache_
│       ├── _init_.py
│       ├── album.py
│       ├── artist.py
│       ├── spotify_item.py
│       ├── track.py
│       ├── user.py
│       └── _init_.py
├── .env
├── .gitignore
├── game.py
├── main.py
├── output.txt
├── requirements.txt
├── spotify_manager.py
├── .gitignore
├── LICENSE
└── README.md
```

```
server > main.py > ...
Drew Schiller, 2 days ago | 2 authors (Drew Schiller and others)
1 from flask import Flask, session, request, jsonify, redirect, url_for
2 from flask_session import Session
3 from flask_cors import CORS, cross_origin
4 from decouple import config
5 from game import Game
6 from spotify_manager import SpotifyManager
7
8 app = Flask("Spotted")
9 app.secret_key = config("FLASK_SECRET_KEY")
10 app.config["SESSION_PERMANENT"] = True
11 app.config["SESSION_TYPE"] = "filesystem"
12 Session(app)
13 CORS(app, resources={r"/api/*": {"origins": "*"}})
14
15 @app.route('/api/')
16 @cross_origin(supports_credentials=True)
17 def index():
18     """
19     The API index, which shows session status.
20 """
21
22 PORTS  GITLINS  TERMINAL  PROBLEMS 3  OUTPUT  DEBUG CONSOLE
127.0.0.1 - [08/Dec/2023 13:16:34] "GET /api/ HTTP/1.1" 200 -
127.0.0.1 - [08/Dec/2023 13:16:34] "GET /api/game_exists HTTP/1.1" 200 -
127.0.0.1 - [08/Dec/2023 13:16:35] "GET /api/game_data HTTP/1.1" 200 -
127.0.0.1 - [08/Dec/2023 13:16:35] "GET /api/users HTTP/1.1" 200 -
127.0.0.1 - [08/Dec/2023 13:16:35] "GET /api/users HTTP/1.1" 200 -
127.0.0.1 - [08/Dec/2023 13:16:35] "GET /api/game_data HTTP/1.1" 200 -
127.0.0.1 - [08/Dec/2023 13:17:47] "POST /api/end_game HTTP/1.1" 302 -
127.0.0.1 - [08/Dec/2023 13:17:48] "GET /api/ HTTP/1.1" 200 -
127.0.0.1 - [08/Dec/2023 13:17:48] "GET /api/game_exists HTTP/1.1" 200 -
127.0.0.1 - [08/Dec/2023 13:17:49] "GET /api/users HTTP/1.1" 200 -
127.0.0.1 - [08/Dec/2023 13:17:49] "GET /api/users HTTP/1.1" 200 -
127.0.0.1 - [08/Dec/2023 13:20:29] "GET /api/game_exists HTTP/1.1" 200 -
127.0.0.1 - [08/Dec/2023 13:20:29] "GET /api/game_exists HTTP/1.1" 200 -
127.0.0.1 - [08/Dec/2023 13:20:30] "GET /api/users HTTP/1.1" 200 -
127.0.0.1 - [08/Dec/2023 13:20:30] "GET /api/game_exists HTTP/1.1" 200 -
127.0.0.1 - [08/Dec/2023 13:20:30] "GET /api/users HTTP/1.1" 200 -
127.0.0.1 - [08/Dec/2023 13:20:30] "GET /api/users HTTP/1.1" 200 -
127.0.0.1 - [08/Dec/2023 13:20:30] "GET /api/users HTTP/1.1" 200 -
127.0.0.1 - [08/Dec/2023 13:23:08] "OPTIONS /api/create_game HTTP/1.1" 200 -
127.0.0.1 - [08/Dec/2023 13:23:12] "POST /api/create_game HTTP/1.1" 500 -
```

- 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



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?

