

Sound Sensei

Team 6: Sound Samurai's

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Description & Technologies & Roles

Description:

- This user friendly
 application gives
 millions to control and
 listen to music all over
 the world.
- A third party playlist curation application.

Technologies:

- Design Tools:
- GIMP
- Development Tools:
- Draw.io, GitHub, IDE, Spotify API
- Management Tool:
- Discord, Trello,
 OneNote meeting

Roles:

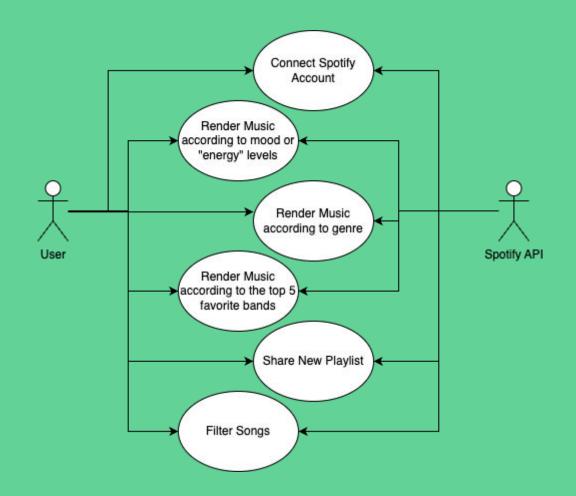
- Designer (Gwen)
- User Interface (Anna/Alysha)
- Backend (Jesse/ Ismail)



Requirements (Summary)

- The website will curate a new playlist based on user inputs and their listening preferences, using multiple different aspects of Spotify's API.
- There will be a feature that will share the playlist by copying the link to the playlist.
- The website will be able to generate a new playlist in a timely manner using proper and efficient coding.
- There shall be a feature that allows users to add the newly created playlist to their spotify account, using Spotify's API.

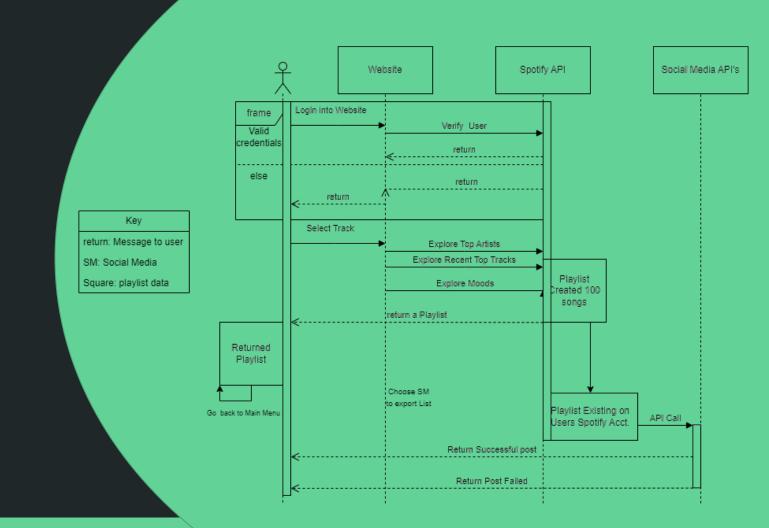
Use Case Diagram



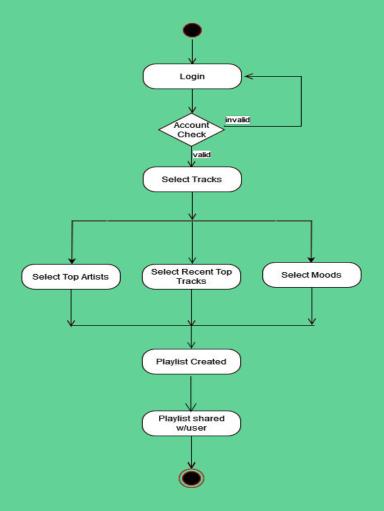
Login Class Diagram userName: String User password: String User userName <<const>> Home password getPassword() Preferences getUserName() renderButton: Boolean checkUserName() mood: Integer checkPassword() genre: String setPreferances() login() explicit: Boolean logout() energy: Integer moodPressed() Spotify API render() Responsibilities: --Stores user's Spotify userNames and passwords and gives the website a token to work with the user's Spotify Sona data. --Generate songs based on title: String PlaylistRendered artist: String input. -- Provide information about songlmage: String playListName: String 10...* duration: double songList: List<Song> songs content: Media genre: String filter() explicit: Boolean share() addPlaylistToAccount() songConst() deleteSong() getSongImage() back() getSongName()

playClip()

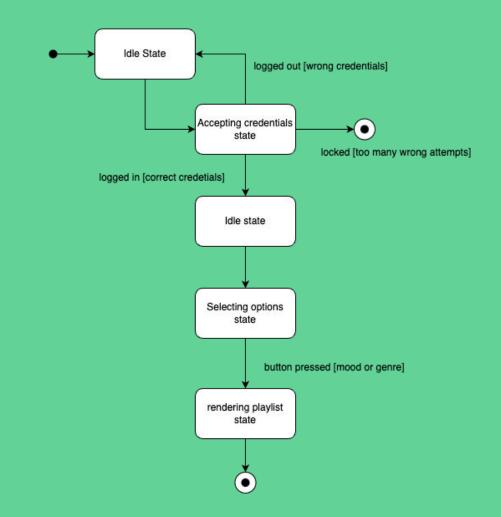
Sequence Diagram



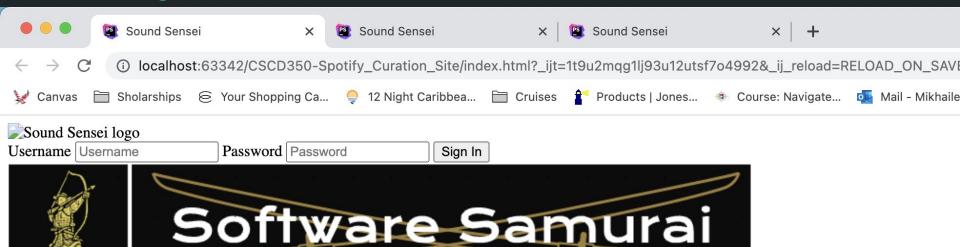
Activity Diagram



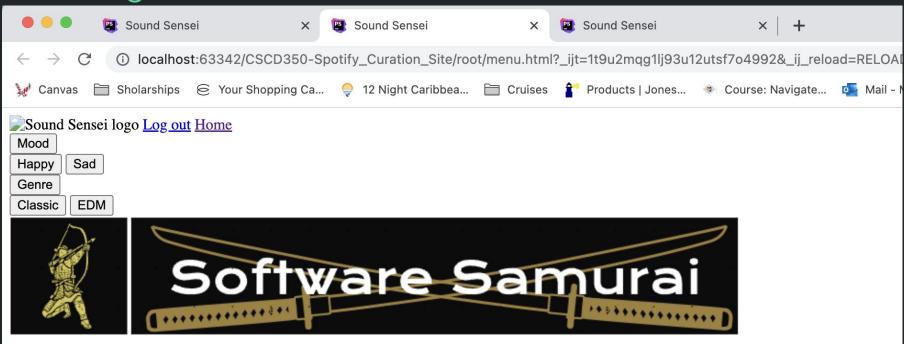
State Chart Diagram



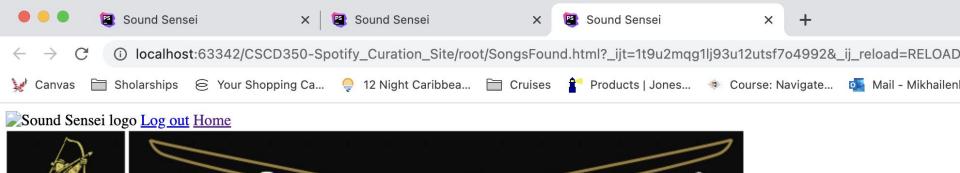
Web Page Screenshots



Web Page Screenshots



Web Page Screenshots



ware Samurai

```
//standard, a code verifier is high-entropy cryptographic random string generator with
  // a string between 43 and 128 characters
   function generateRandomString(length) : string {
       let text : string = '';
       let possible : string = 'ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789';
       for (let i : number = 0; i < length; i++){
            text += possible.charAt(Math.floor( x: Math.random()*possible.length));
       return text;
4 }
  // generate value using SHA256 algorithm
   const digest : ArrayBuffer = await window.crypto.subtle.digest( algorithm: 'SHA-256', data);
  // This value will be sent within the user authorization request.
   async function generateCodeChallenge(codeVerifier) : Promise < string> {
       function base64encode(string) : string {
           return btoa(String.fromCharCode().apply(null,new Uint8Array(string)))
                .replace( searchValue: /\+/g, replaceValue: '-')
                .replace( searchValue: /\//q, replaceValue: '_')
                .replace( searchValue: /=+$/, replaceValue: '');
```