

## CSCI 3308-014-04

### GitHub Accounts/Names:

Benjamin Niesmertelny, beni9842

Tyler Huynh, Tyler-Huynh

Brady Stark, Brady-Stark

Spencer Huey, SpencerHuey

Andrew Strong,

**Team name:** The Jackson 5

### Meeting Times:

- Group: 1 hour meetings on 1:30 - 2:30 pm monday and wednesday.
- TA: 7:15 - 7:30 pm monday
- <https://cuboulder.zoom.us/j/99197317486>

### The Three Ideas:

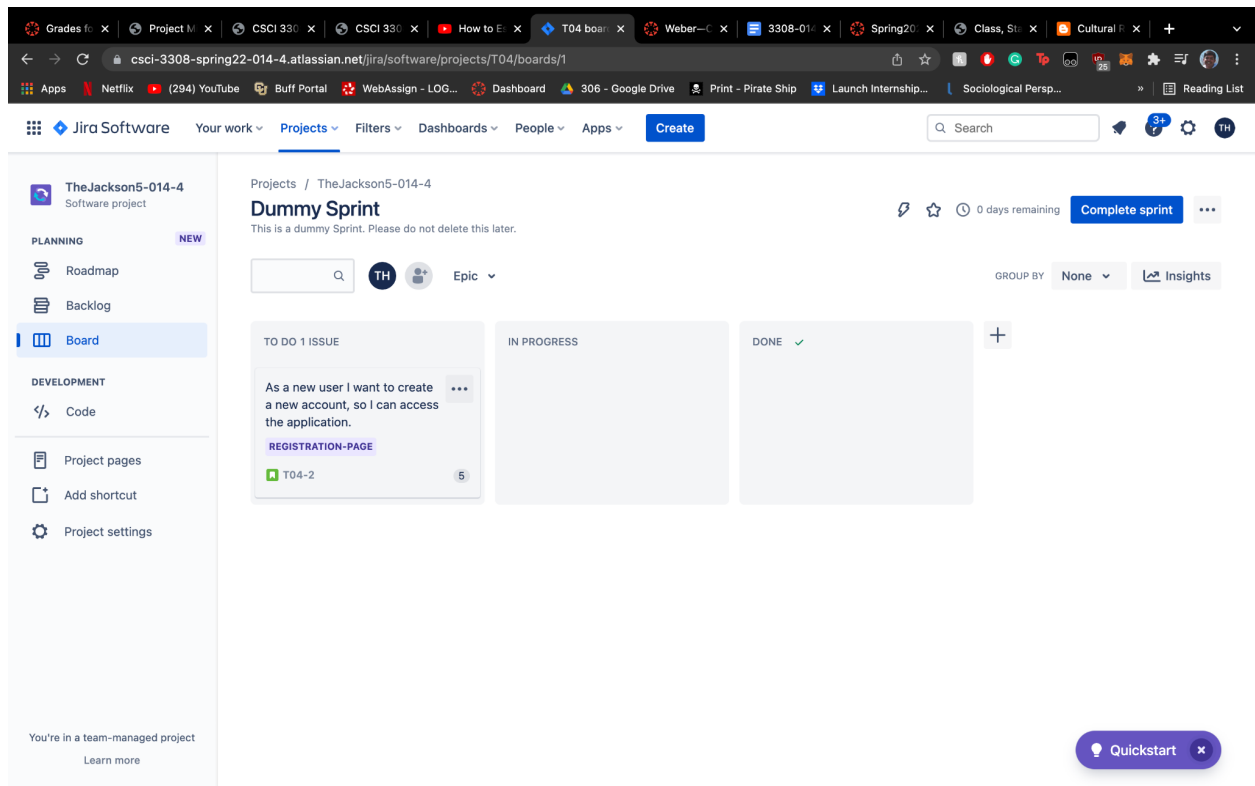
- NFT Collection Storer
  - Frontend:
    - Using languages such as HTML, CSS, Hiroku, possibly Web3 etc.
    - Login page
      - Connect metamask (or any other wallet) wallet using web3 technology
    - Display your collected NFTs
  - Backend:
    - Database created using SQL
- Encrypted messaging
  - Frontend:
    - Using languages such as HTML, CSS, Hiroku, etc.
    - Login page
      - Using CU Boulder email to find other contacts you have.
    - Messaging
  - Backend:
    - Database will be created using SQL
- Music visualizer(like from the movie Ratatouille), using spotify wrapped details
  - Frontend:
    - Using HTML, CSS, Hiroku, etc.
    - Login page for a personal account on our website
      - You can then connect your spotify account to the account on our website (Spotify Web API)

- Create some form of a music visualization, using another api
- Backend:
  - Database will be created using SQL
- Refine this.

## Jira Site:

<https://csci-3308-spring22-014-4.atlassian.net/jira/software/projects/T04/boards/1>

## Dummy Sprint ScreenShot:



## Participation:

Tyler Huynh: Yes

Andrew Strong: Yes

Brady Stark: Yes

Spencer Huey: Yes

Benjamin Niesmertelny: Yes

Spotify API:

- [spotify developer](#)
- [SpotiPy docs](#)
- Check for limits on the API

Music Visualization API:

<https://noisehack.com/build-music-visualizer-web-audio-api/>

## **Application Name: Visify**

### **Description:**

For this product, the user will be able to login to our website and connect their Spotify account using Spotify's web API. From here, the user will then choose a playlist to use for the music visualization. The music visualization will be created using an available music visualization API (spectrum, waveform, etc.). The frontend of the website will be created using HTML and CSS. The frontend will consist of a login page. From this login page they can create their own account and connect their own Spotify account to the website. The frontend will also have the music visualizer API, in order to demonstrate the taste of their music. The integration layer will be created using NodeJS. The backend will be developed using PostgreSQL. The backend will consist of a password hashing algorithm that will allow for a safe and secure database of all of the user's personal information.

Our product will be able to provide a deeper level of love for music users in the world. Visify has the ability to show users their music tastes. Visify will be able to have different types of music visualizer modes like a spectrograph, waveform, etc. The ability for users to be able to see what their music taste looks like, allows for the user to try different combinations of songs to create a different and unique music visualizer.

### **Vision Statement:**

For music lovers  
Who would like to view and share a visual representation of their listening habits  
The Spotify Visualizer is a web application  
that will randomly generate unique visualizations based on data provided by the Spotify developer API for specific playlists, albums, users, etc.  
Unlike basic audio visualizers,  
our product will be able to use a wealth of data to create very unique visualization  
Visify is an app made for music lovers who want to visually see their listening habits.

### **Version Control (GitHub Repository):**

<https://github.com/cub-csci-3308-spring-2022/csci-3308-spring22-014-04>

### **Development Method:**

- For the development method of this project, our team will be using agile/scrum
- Jira
  - <https://csci-3308-spring22-014-4.atlassian.net/jira/software/projects/T04/boards/1>

### **Communication Plan:**

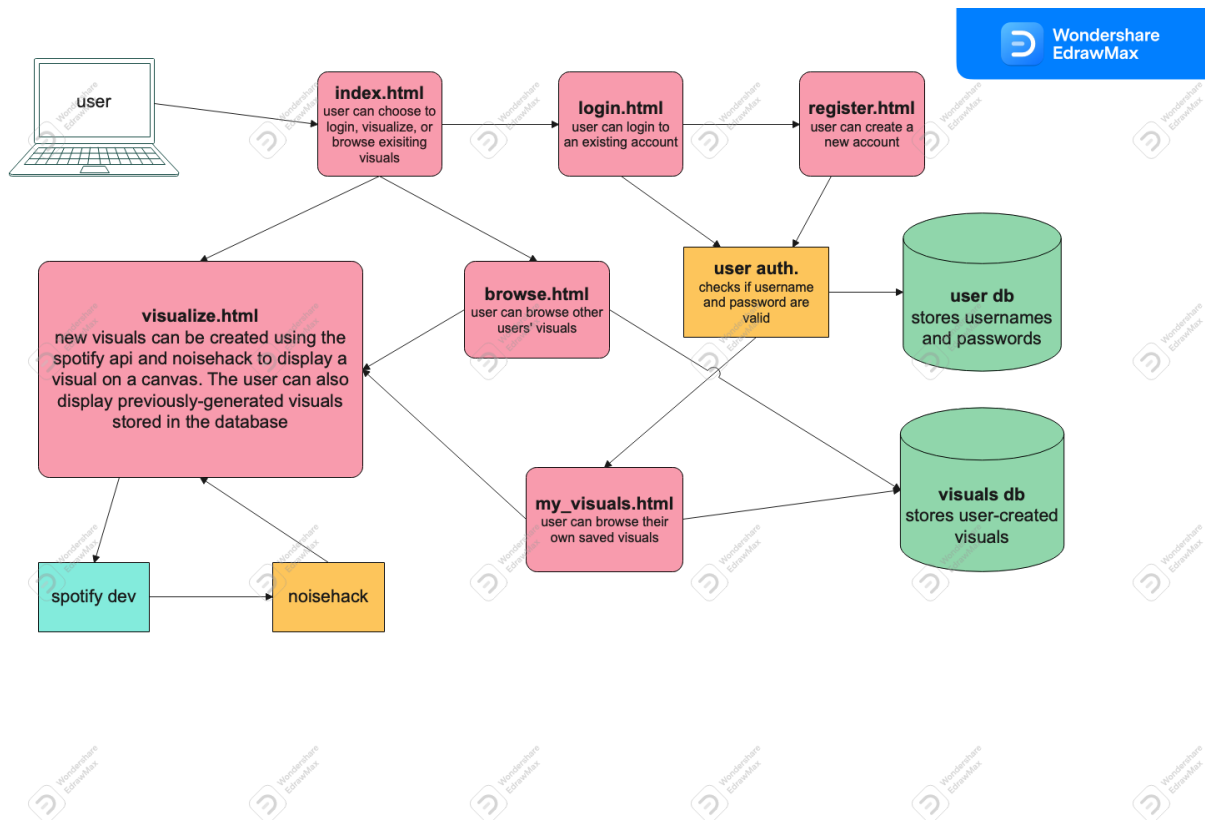
- Communicating through Snapchat and using Discord to collaborate on the project itself.  
Created a Snapchat group chat that will be used for basic communication and the Discord

Server was created for collaborating on the overall project itself. Allowing us to share files and to easily show what we are doing without the use of Zoom. Zoom is there as a backup just in case something goes wrong with the Discord Server.

### Meeting Plan:

- Days: Monday/Wednesday
- Time: 1:30 - 2:30 pm. MT
- Mode: Through Zoom or Discord
- Location: Online

### Proposed Architecture Plan:



### Use Case Diagram:

Use Case Diagram 3308-014-04

