Tinderfy - Project Report

Project Title: Tinderfy™
Team Number: 12-6

Team Members
- Amit Wieder (awieder) - wiederamit@gmail.com
- Sree Harsha Kalavagunta (Harsha-Kal) - sreeharshakalavagunta@gmail.com
- Nithin Manoj (Nithin-Manoj) - nithinmanoj2006@gmail.com
- Riley Polchin (rileyPo) - rileypolchin@gmail.com
- Max Jambor (maxjambor) - maxcjambor@gmail.com

Project Description
TinderfyTM is a music-based dating application designed to match users based on the calculated similarity of their liked songs. Unlike traditional dating apps that rely primarily on visual preferences, Tinderfy emphasizes music taste as a key indicator of compatibility. Users select their favorite songs and complete their profiles. The application then processes these song choices to recommend users with similar musical interests, displaying a similarity score to aid in the decision-making process. If two users express interest in each other, a match is formed. Our target audience includes college students and adults who value music in their relationships. The application aims to provide an intuitive and accessible user experience, fostering connections through shared musical passions.

VCS Repository
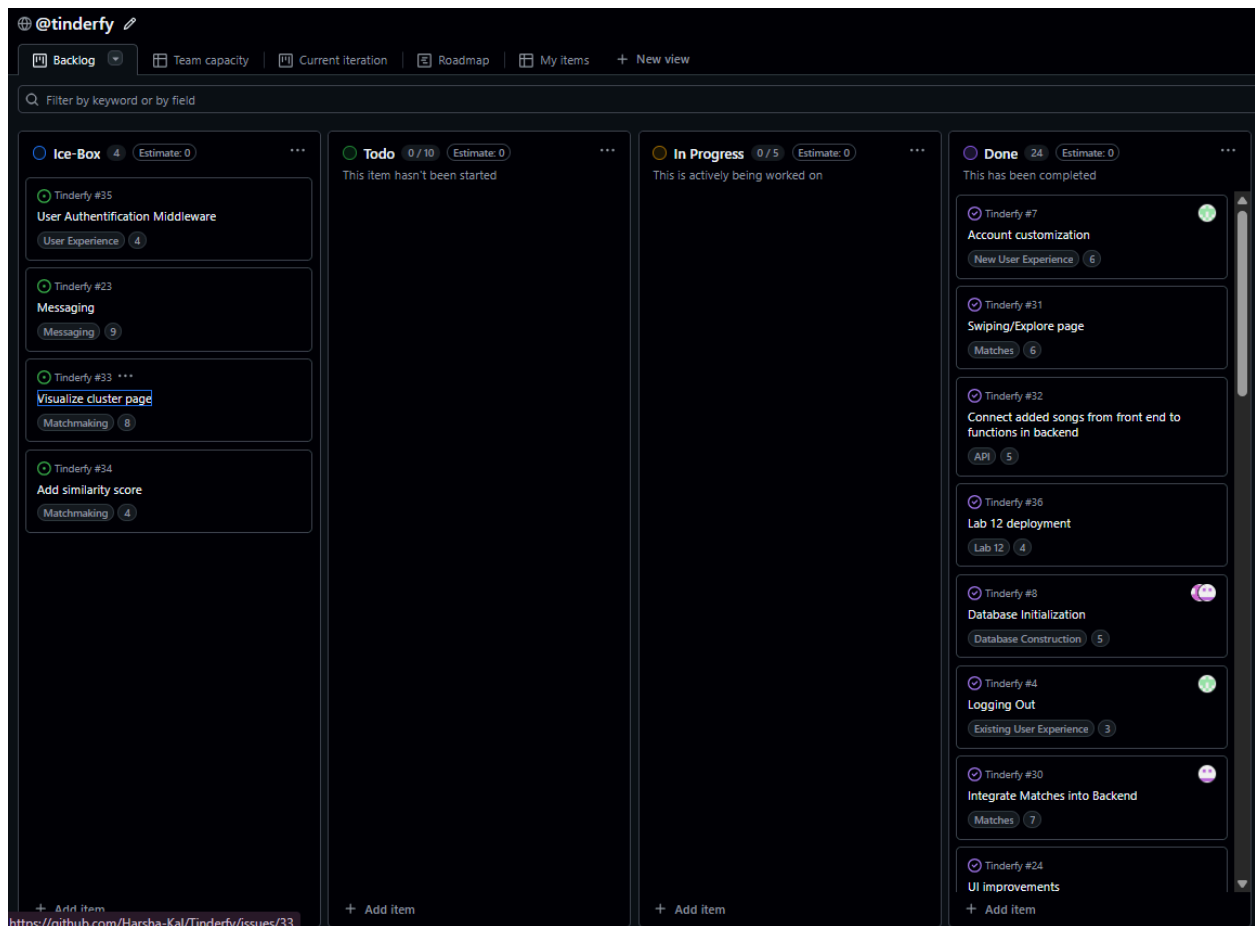https://github.com/Harsha-Kal/Tinderfy.git

Individual Contributions
- Amit Wieder: Implemented K-Clusterning to calculate match score% and the majority of the matchmaking backend.
- Sree Harsha Kalavagunta: Front end development, implemented functionality for liked songs and the dislike feature. Updated routes for account customization and matches.
- Nithin Manoj: Implemented Unit Tests, created UAT Plan, and configured deployment
- Riley Polchin: Work on home pages, the register/login pages, and linked the register, home. And an account page to the database.

- Max Jambor: Set up both APIs, implemented the track features back end, and linked adding and removing songs to the database.
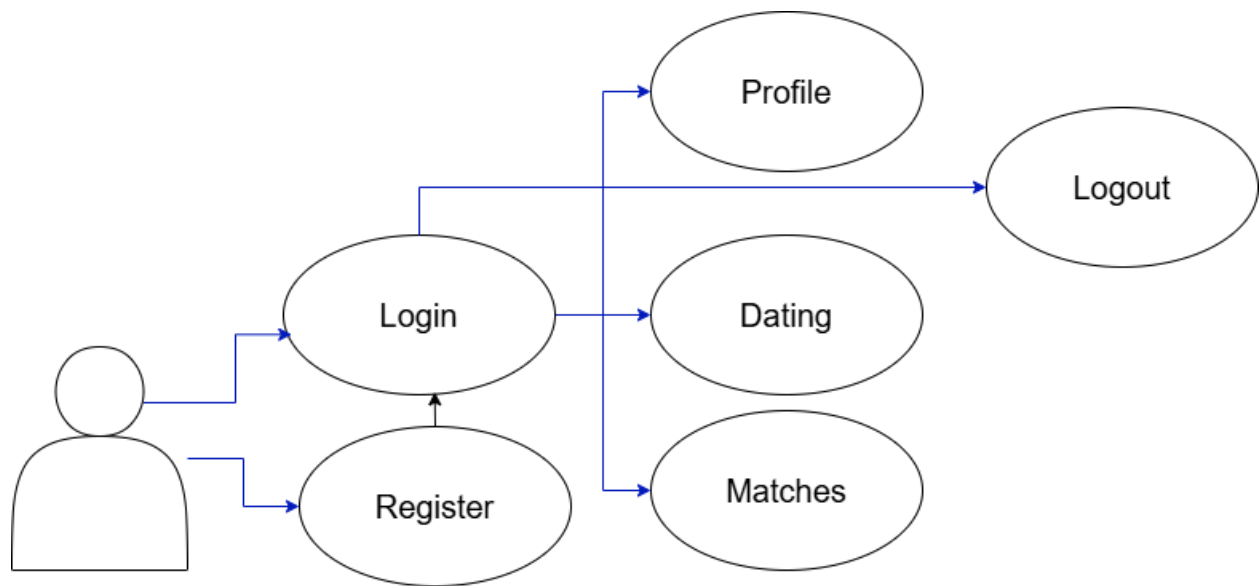
Project Tracker
https://github.com/users/Harsha-Kal/projects/4/views/1

Video Demo
Link to awesome video demo - https://youtu.be/LNQtoGD6Ubg

Deployment
Deployment Link: https://tinderfy-p10p.onrender.com
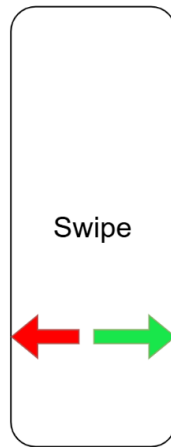Our application is deployed on Render using Docker containers.

Use Case Diagram

Wireframes

Test Results
See `MilestoneSubmissions/UAT_Plan.md` for the detailed test plan.

```
# Test Results


**Automated Test Output:**
```text
  Server!
    ✓ Returns the default welcome message

  Testing Register API
    ✓ positive: /register
    ✓ negative: /register duplicate username

  3 passing
```


Summary of Results:
- Total Test Cases: 3
- Positive Test Cases: 2
- Negative Test Cases: 1
- Passed: 3
- Failed: 0
```