Team Group Number: 12-03

Team Name: Team Awesome

Team member details:

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Application Name: Courtconnect Court Connect

Application Description: Application that allows users to create profiles and view local tennis courts with their respective available times. They will be able to book certain time slots to use and play, as well as have the ability to find fellow players in the area with similar skill levels or time availability to connect and play with.

Vision Statement: For tennis players who want to find a court and competitors to play against. The Net Reserve is a booking system and social network that allows easy and efficient access to play. Unlike other court reservation systems, our product connects the tennis community.

Version Control:
Github Repository: https://github.com/thomasriley0/Tennis-Reservation-App

Development Methodology: Agile
Progress tracking: Github Projects Kanban board

Team Meetings: Thursdays at Noon
Communication Platform: Snapchat Discord Slack

Project Requirements:
- Create account
    - setup optional social profile
- Login to account
- Logout of account

- Browse local courts
    - Ability to filter court based on a radius/location
    - Filter singles/doubles
- Reserve a court
    - Page to view users current reservations
    - Reserve time slot of a certain court
    - Ability to lock reservation or open it up for another player
    - Cancel/edit reservation
    -

- Page with list of time blocks for players looking for an opponent

Databases: (using Postgres)

- Users
    - User id (Primary key)
    - Username
    - Password
    - Rating
    - Location
    - Profile information (many columns)
- Facility
    - facilityId
    -
- Courts
    - Court id (primary key)
    - Facility (FK)
    - Court name
    - Indoors or Outdoors
    - Surface of court (grass/clay/hard)
- Facility to courts
    - Facility id (FK)
    - Court id (FK)
- Reservation
    - Reservation ID (primary key)
    - Time ID
    - CourtID
    - UserID

- Available court times
    - Court id
    - Days open
    - Open or looking for group
- Times
    - TimeId (primary key)

        - Start time
        - End time
        - Date
        - open/locked/looking for opponent
- Courts to times
    - CourtID
    - timeID

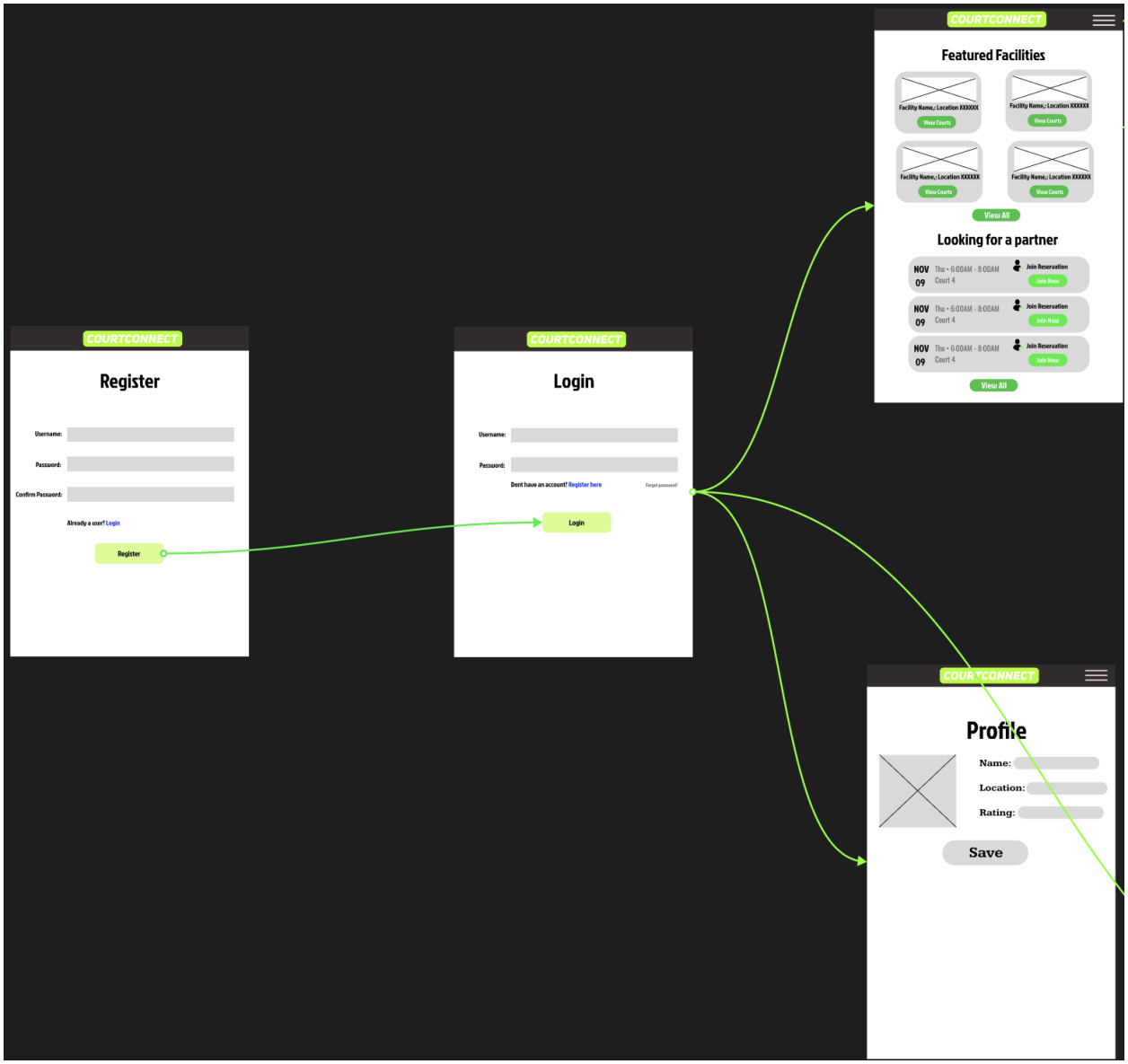
Another possible db design

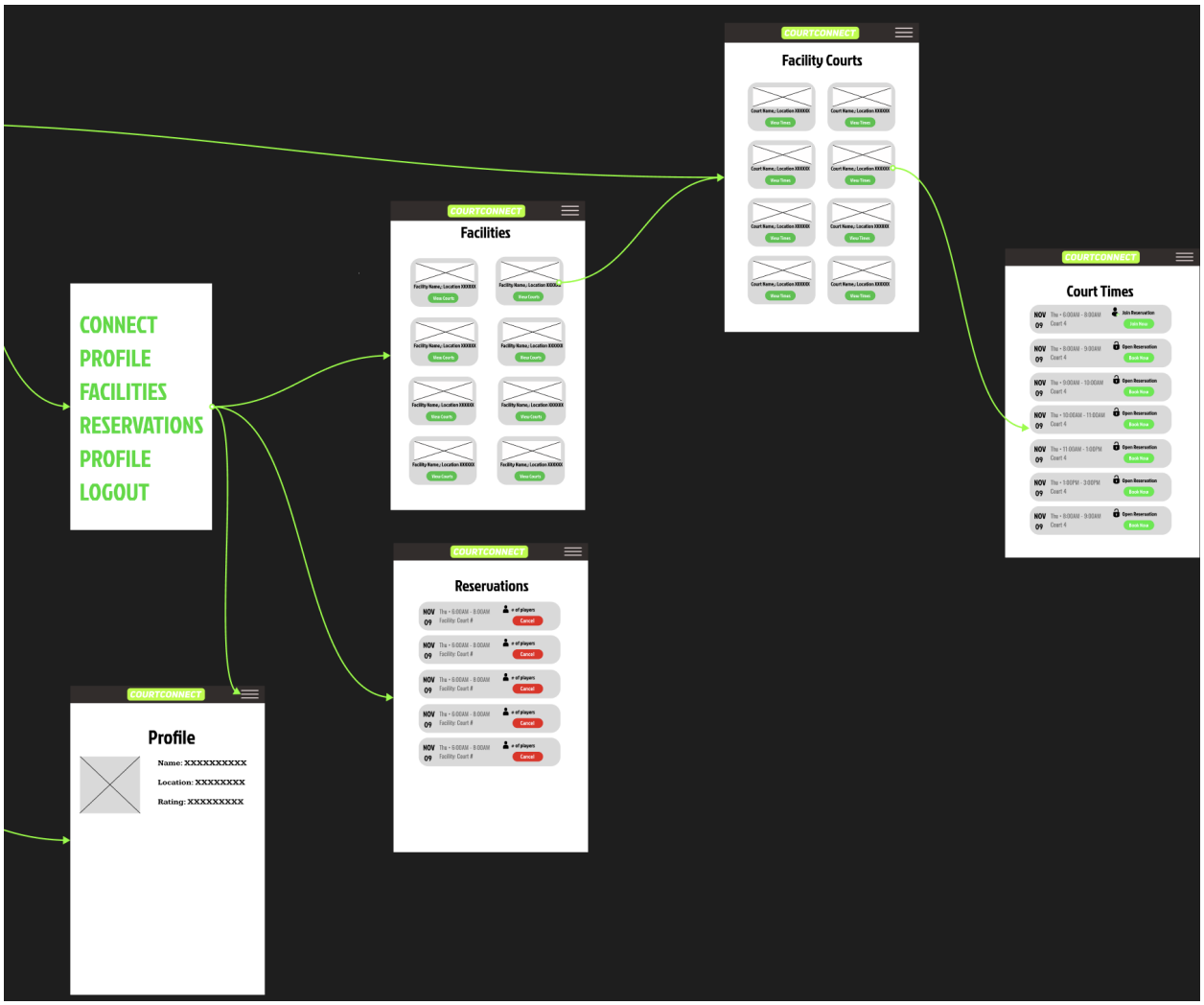
- Users
    - User id (Primary key)
    - Username
    - Password
    - Rating
    - Location
    - Profile information (many columns)
- Facility
    - Facility id (PK auto increment)
    - Facility Name
    - Zip code or other way to distinguish where it is (Location)
- Court
    - Court id (PK auto increment)
    - Facility id (FK)
    - Court name/number
- Courts to times
    - Court ID (FK)
    - Time ID (FK)
- Available Times
    - Time id (PK auto increment)
    - Date
    - Start Time
    - End Time
- Reservations
    - Reservation ID (PK auto increment)
    - User ID (FK)
    - Court ID(FK)
    - Time ID(FK)
    - locked/looking for opponent

Basic Wireframe:

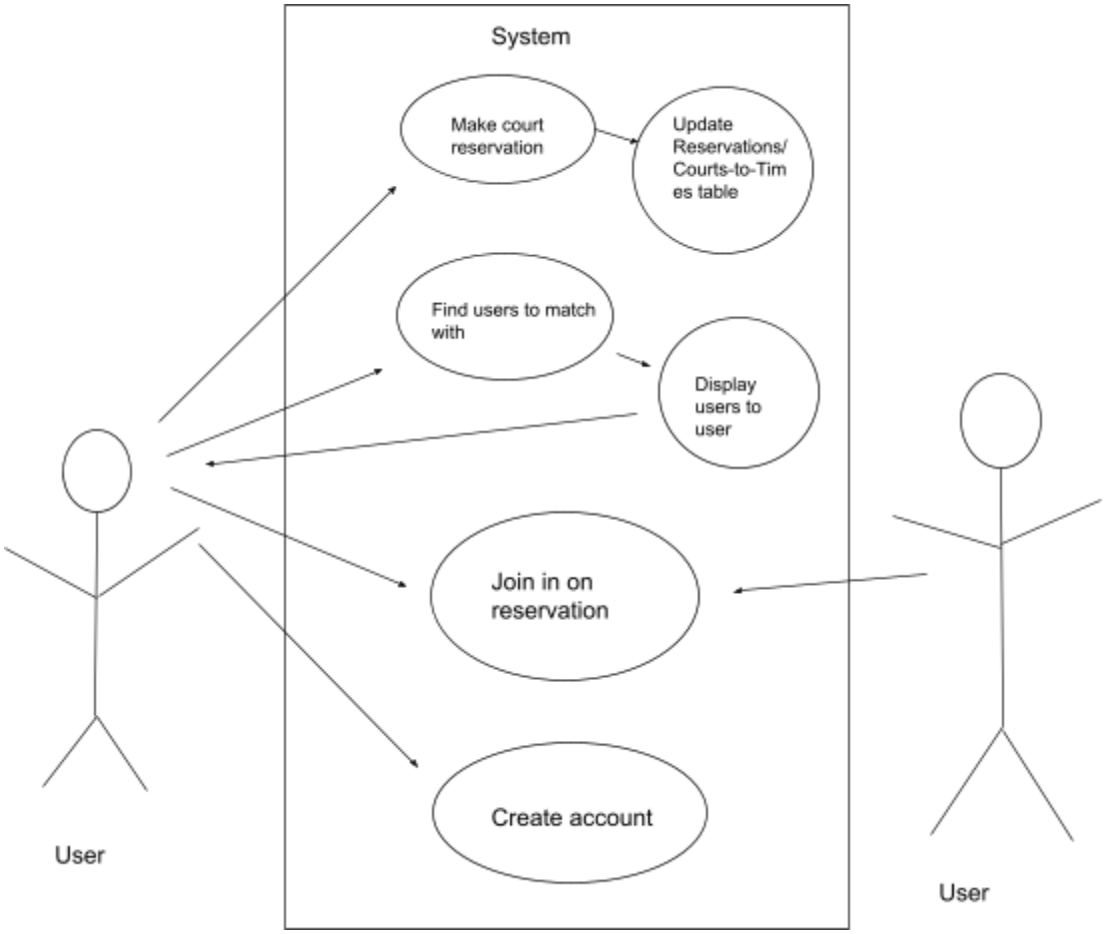
https://www.figma.com/file/0VKYzlRrEWa3IfWRVr28po/Untitled?type=design&node-id=0-1&mode=design&t=P6W9498F6LGS63el-0

Some screenshots of it:





Use Case Diagram:


System
Make court reservation
Update Reservations/ Courts-to-Times table
Find users to match with
Display users to user
Join in on reservation
Create account
User
User