

# **SEG-2105 Final Report:**

The Grimpeurs Cycling Club

**Authors:** Slavish Quinn, Power Riley,  
Chimmapudi Suhas, Hassanzadeh Mobini Matin

**Course Name:** SEG-2105 Section B

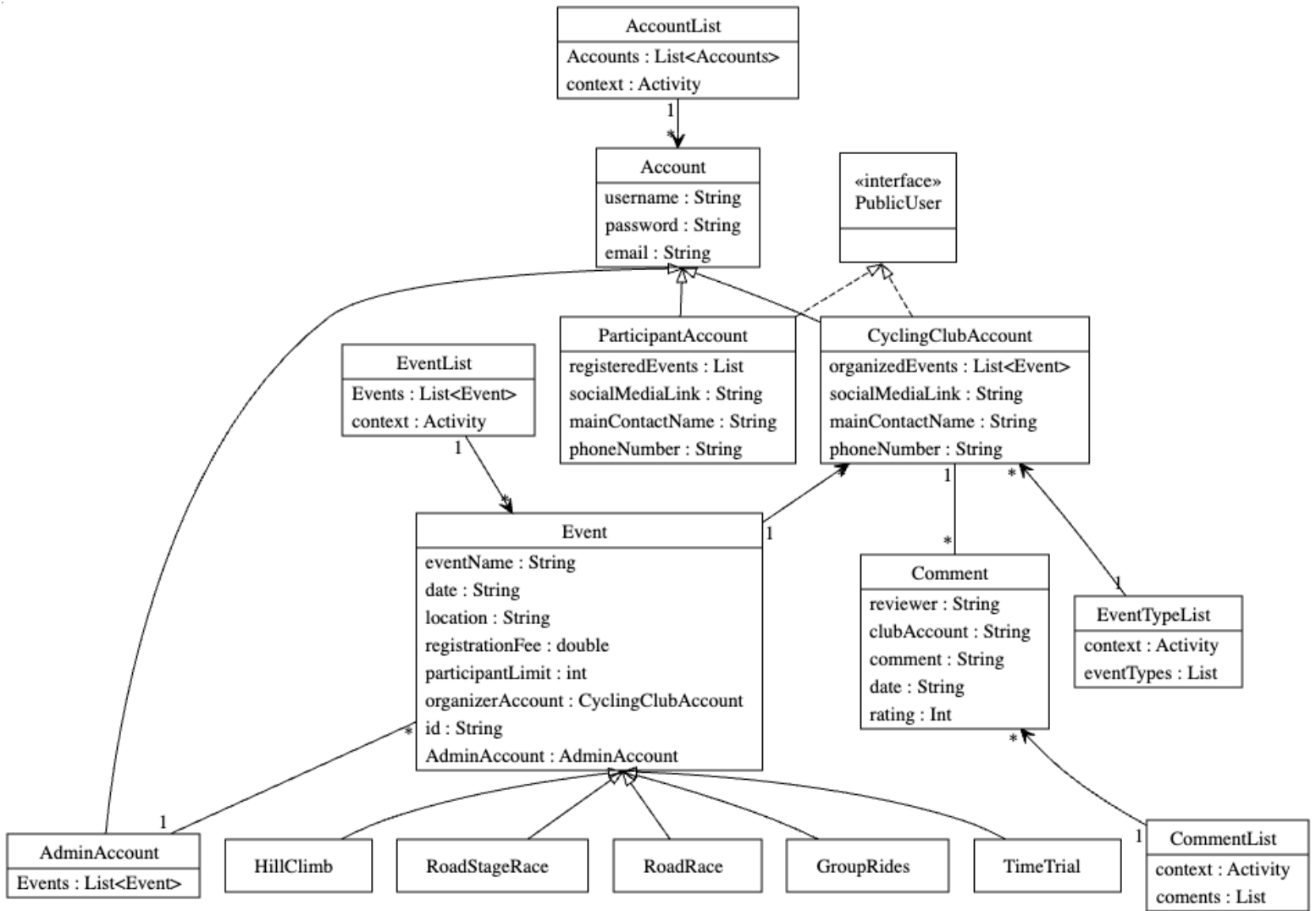
**Professor:** Dr. Miguel A. Garzón

**Due Date:** Dec 6, 2023

## **Introduction:**

The Grimpeurs Cycling Club is a specialized mobile application that serves as a hub for all things cycling-related, including event coordination, registration, and community engagement. Within the application, there are three user roles, which complete different tasks. There consists of an Admin, Cycling Clubs, and Participants. The Admin's primary role is event management; the administrator can create types of events that could be offered by different cycling clubs. The Admin may also delete accounts of cycling clubs and participants to monitor and moderate event-related content to ensure accurate and safe information. The user representing a Cycling Club has a role in event creation: they can create and organize cycling events within the region, specifying event type, difficulty level, and route details while also setting registration fees and participant limits. Lastly, a user may register as a Participant to access event details and registration. They may browse and search for upcoming cycling events within the region based on location, date, and type. Once a participant has found a desired event, they may register for the cycling event and receive event confirmation.

## UML:



## Roles in the Team and Contributions:

Team Member	Deliverable 1(Contribution)
Quinn Slavish	Worked on Firebase (Integrated Backend with database)
Riley Power	Worked on Backend (Making sure fields are valid (regex) / onClick functions)
Suhas Chimmapudi	Worked on UI(Welcome Screen/ Password entry)
Matin Mobini	Worked on Class Structure (Make UML diagram into boilerplate code)

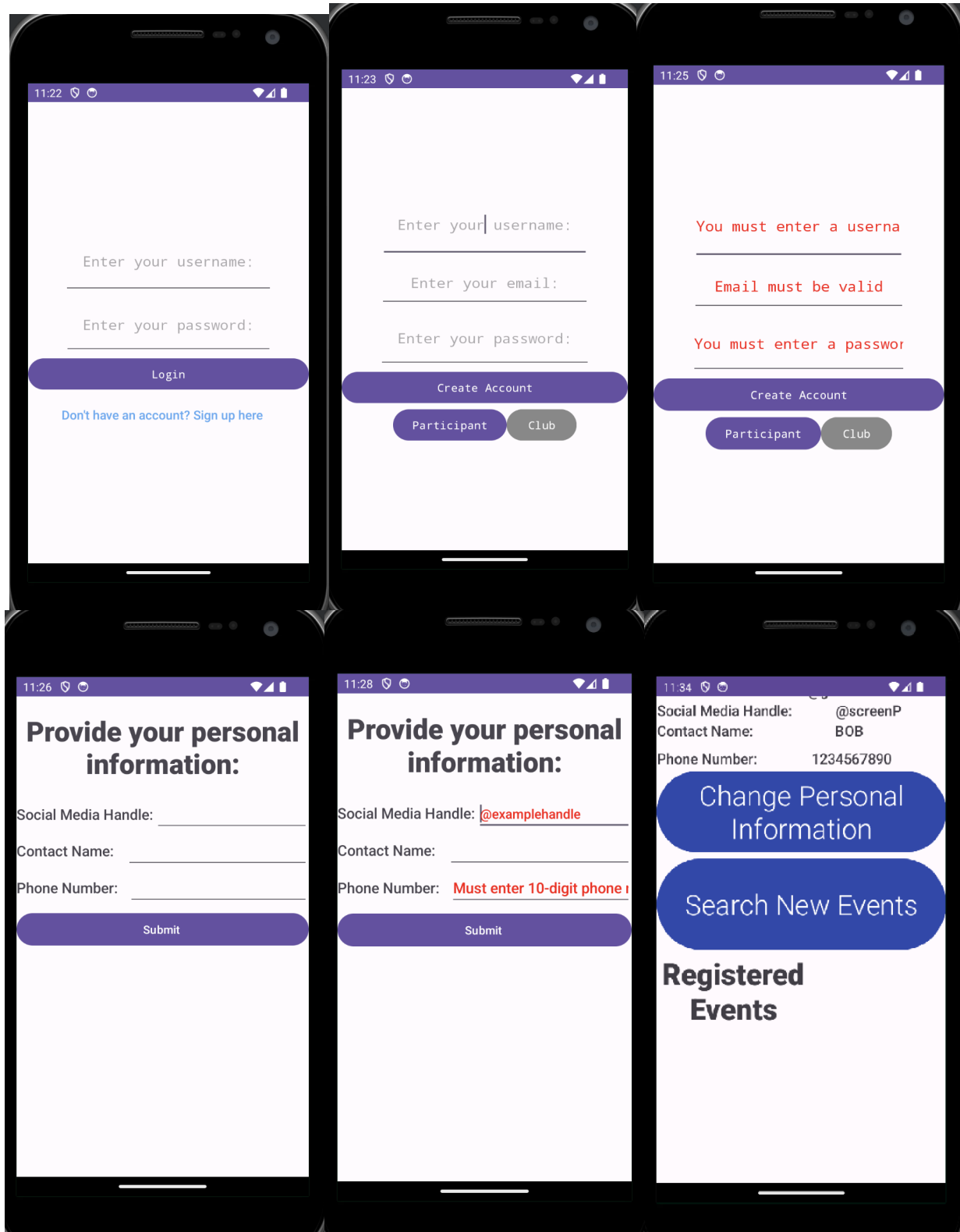
Team Member	Deliverable 2 (Contribution)
Quinn Slavish	Worked on Event Back-End, and Admin Controls (Admin Back-End)
Riley Power	Worked on creating a shell class to allow the smooth transition between pages in the application.
Suhas Chimmapudi	Worked on User Interface and XML files
Matin Mobini	Worked on Event Back-End, UML, Setting up the Class Structure

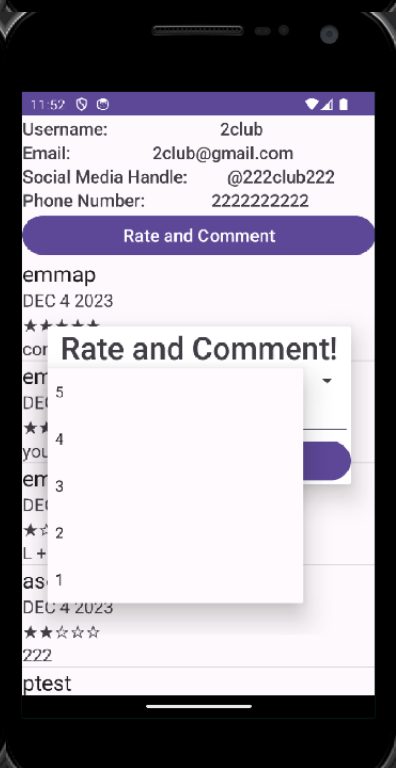
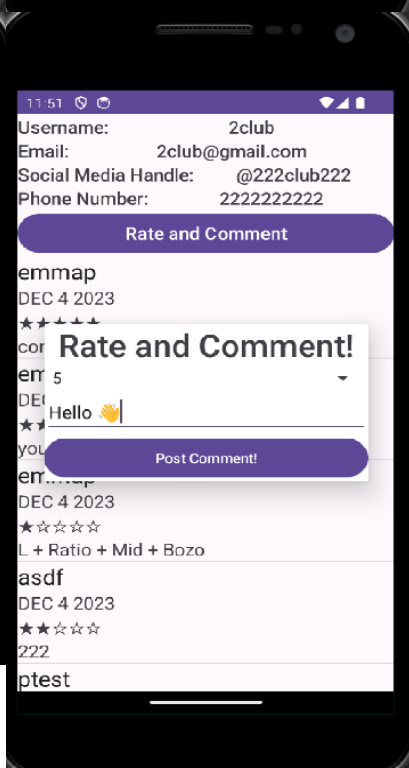
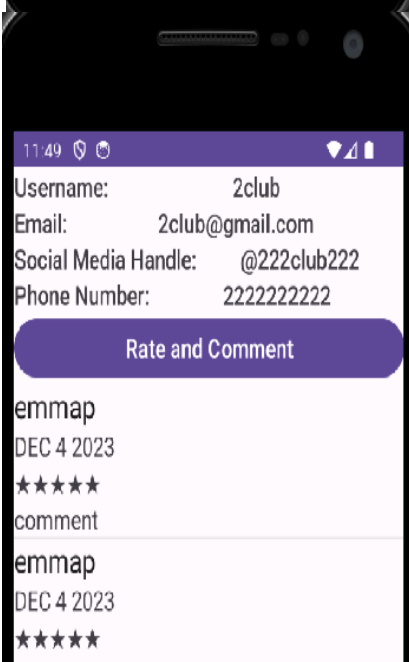
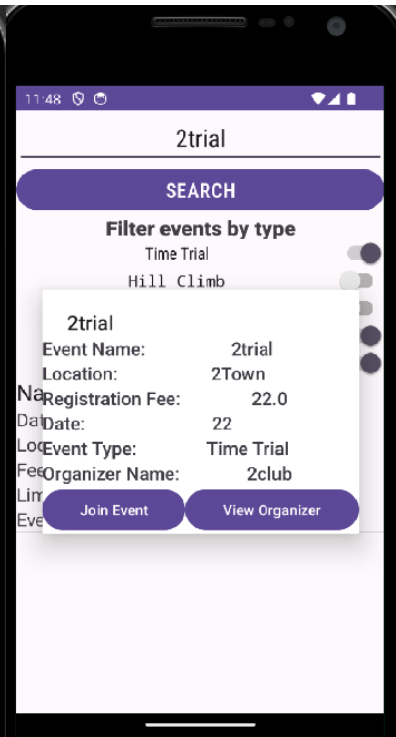
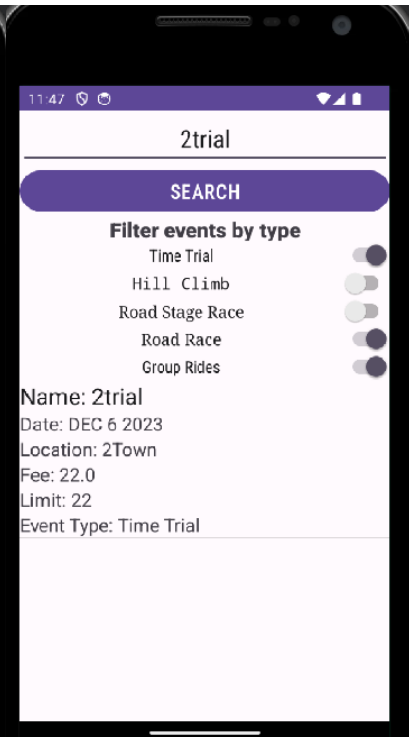
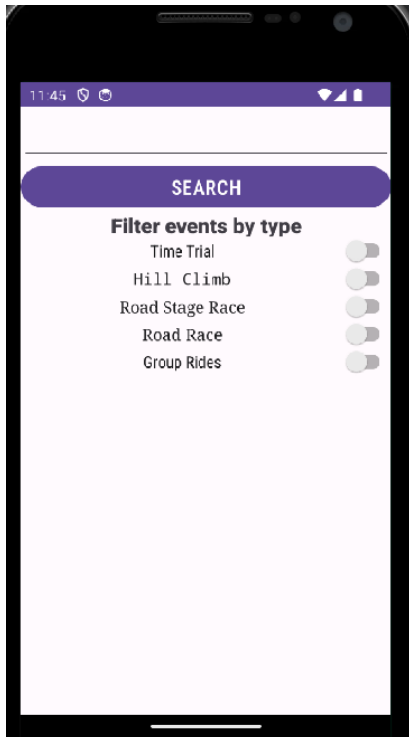
<b>Team Member</b>	<b>Deliverable 3(Contribution)</b>
Quinn Slavish	Worked on Profile information Back-End, CyclingClub profile activity code, and CyclingClub dialogue code.
Riley Power	Worked on updating necessary classes with new variables, connecting shell to CyclingClub profile page, making CyclingClub event screen, and making admin toggles function.
Suhas Chimmapudi	Worked on creating new XML files to update UI and connect them with the Back-End code.
Matin Mobini	Worked on updating the class UML to match new structure of classes, and Assisted with the Profile information Back-End.

<b>Team Member</b>	<b>Deliverable 4(Contribution)</b>
Quinn Slavish	Worked on allowing participants to Review/Rate club and developed Participant activity code. Assisted with the creation of Unit Tests.
Riley Power	Worked on creating the ability to allow participants to search for clubs, also created the Participant Activity.
Suhas Chimmapudi	Worked on creating and linking new XML files to facilitate new functions for users.
Matin Mobini	Worked on creating the report, updating the class UML and built Unit tests.

## Screenshots of the Application:

**Starting with SignUp/Login page and then Participant point of view, then CyclingClub, and ending with Admin point of view**





## Now in CyclingClubAccount





## AdminAccount starts here



## **Lessons Learned:**

Throughout our collaborative journey with this project, we've explored Firebase's various features, Android Studio's shared development advantages, and the flexibility of regex for data manipulation. Our continual team meetings helped us improve with communication and goal alignment, while collectively managing time and disruptions. Confronting software limitations called for innovative solutions, and our shared expertise with Java streamlined project efficiency, showcasing our potential and adaptability as a team.