



# UCF CLUB & EVENT MANAGER

# OUR TEAM

- Nehito Dorval → Frontend Web
- Andy Nguyen → Frontend Web / Frontend App
- Colin Kirby → Product Manager / Frontend Web
- Tylon Robinson → API / Unit Testing
- Juwel Belizaire → API / Database
- Jovanny Vasquez → API / Frontend App

# TECHNOLOGY USED

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We utilized the MERN STACK :

M

MongoDB →

- Database for storing User, Club, and Event data.

E

Express →

- Handles Backend / Frontend Communication through API Endpoints.

R

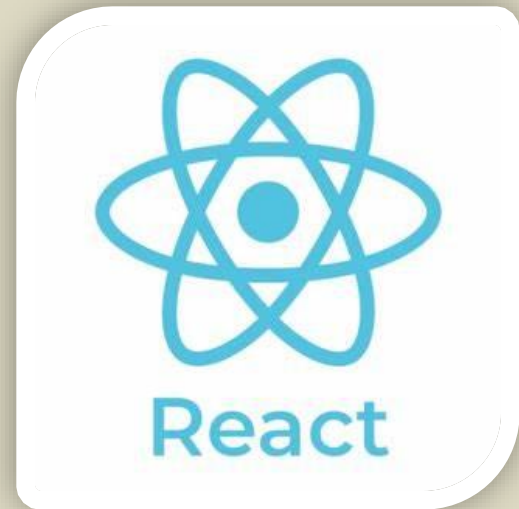
React →

- Building Blocks for our Frontend Development.

N

Node →

- Serves as the runtime environment for our JavaScript (React)





# TECHNOLOGY USED

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## Hosting & Collaboration Tools :

### Heroku →

- Cloud Service for deploying and hosting our Web App.

### GitHub →

- Served as repository for us to view each others progress and easily merge / collaborate our different codes together.

### TeamGANTT →

- Organized and set deadlines for our tasks with daily feedback on our status to keep us on track.

### Discord →

- Served as main medium for communication for our group, used with TeamGANTT daily to maintain workflow.



# TECHNOLOGY USED

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## Dev & Design Tools:

### TailWind →

- CSS building blocks for efficient, responsive frontend styling.

### Postman →

- API development and testing tool for validating endpoint functionality.

### SwaggerHub →

- Interactive platform for designing and documenting APIs.

### Flutter →

- UI toolkit for implementing a mobile application from our website.

### Jest →

- JavaScript testing framework for ensuring code quality and reliability.



# THINGS THAT WENT WELL

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- Database Deployment & Implementation
  - ✓ Using MongoDB was very direct, implementing and changing the models for our data types / collections provided minimal issue throughout the course of the project.
- Using Tailwind CSS for UI Development
  - ✓ The available classes that Tailwind provided saved so much time in creating a responsive and clean interface in comparison to hard-coded CSS, and it was very simple to use by utilizing Tailwindcss.com's Component Codes.
- API Endpoint / Model Creation
  - ✓ After set up of the Database, the creation of the first models and API endpoints with their corresponding testing in Postman were very straightforward, and provided a great base to build upon, by the end of website development we only needed to add one endpoint to handle an edge case.
- Frontend Development for App
  - ✓ The App's backend was very direct with Android, as in our case it implemented the websites already working backend functions, the only needed action was the connection between the two within Flutter.



# THINGS THAT DIDN'T GO WELL

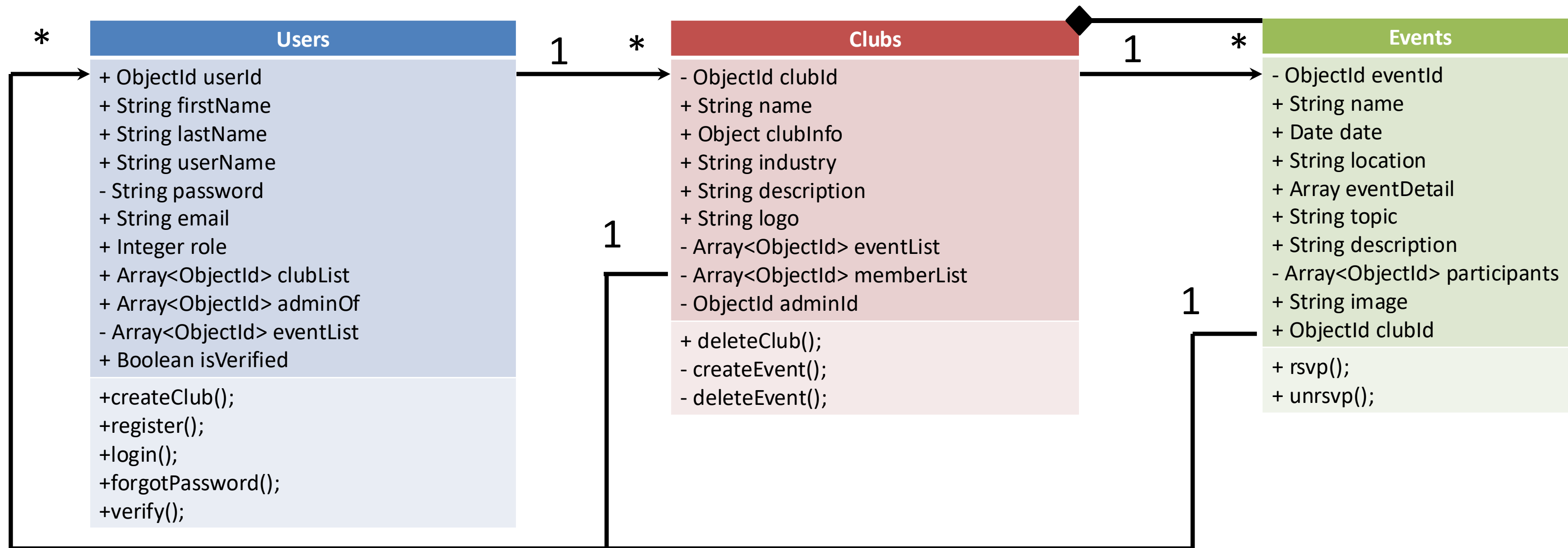
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- Initial Connection of Frontend to Backend Connections of Web App
  - ✓ Implementing the proper routes & controllers with the proper parameters was a chore upon the first deployment, lots of small errors inter-connected between the frontend and backend was difficult at first.
- Frontend Development for Mobile App with Dart
  - ✓ The language was very specific with a steep learning curve. Integrating with the backend was very different in comparison to the web app, required a significant adaptation from our mobile team.
- Email Implementation for Verification / Forgot Password
  - ✓ The specifics of the .env that needed to be included provided a lot of issues considering Gmail required multiple forms of authentication and extra lines of code to make sure emails are both sent and received properly.
- Functions for Unit Testing
  - ✓ Upon original planning of the backend / frontend processes of the website we didn't have too many functions to test. Figuring out how to implement the Unit Testing with our already set up web and mobile app without needing to add more functions to fit the requirement proved to be an obstacle at first.



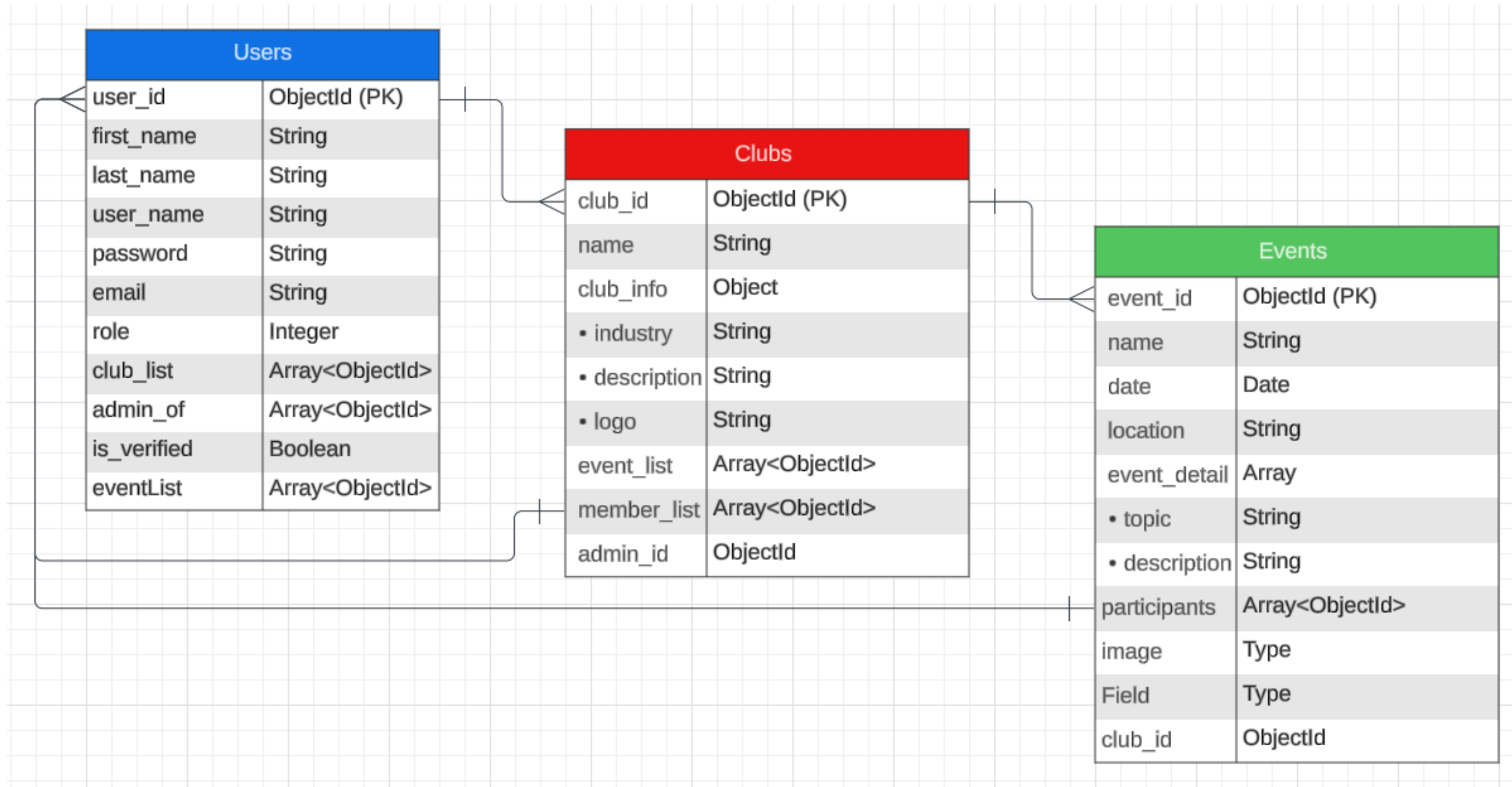


# Class Diagram

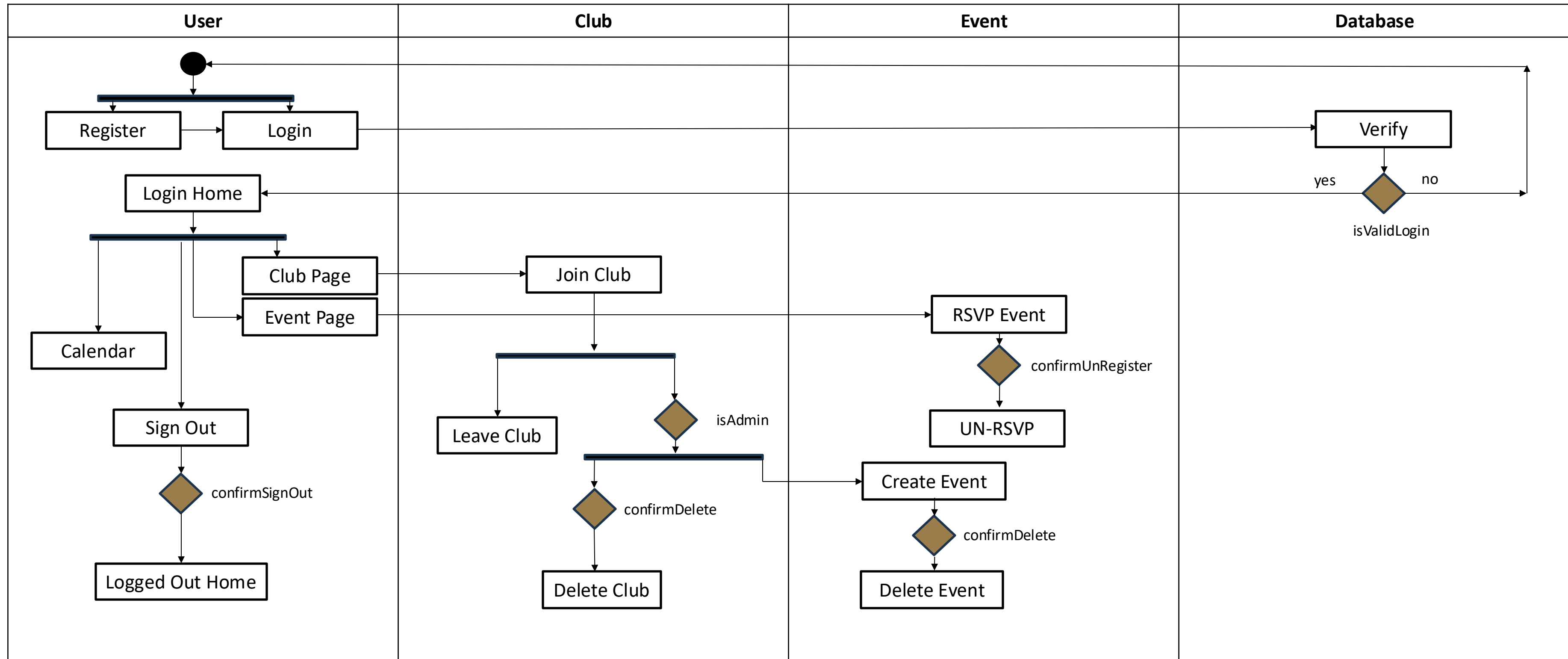




# Entity Relationship Diagram

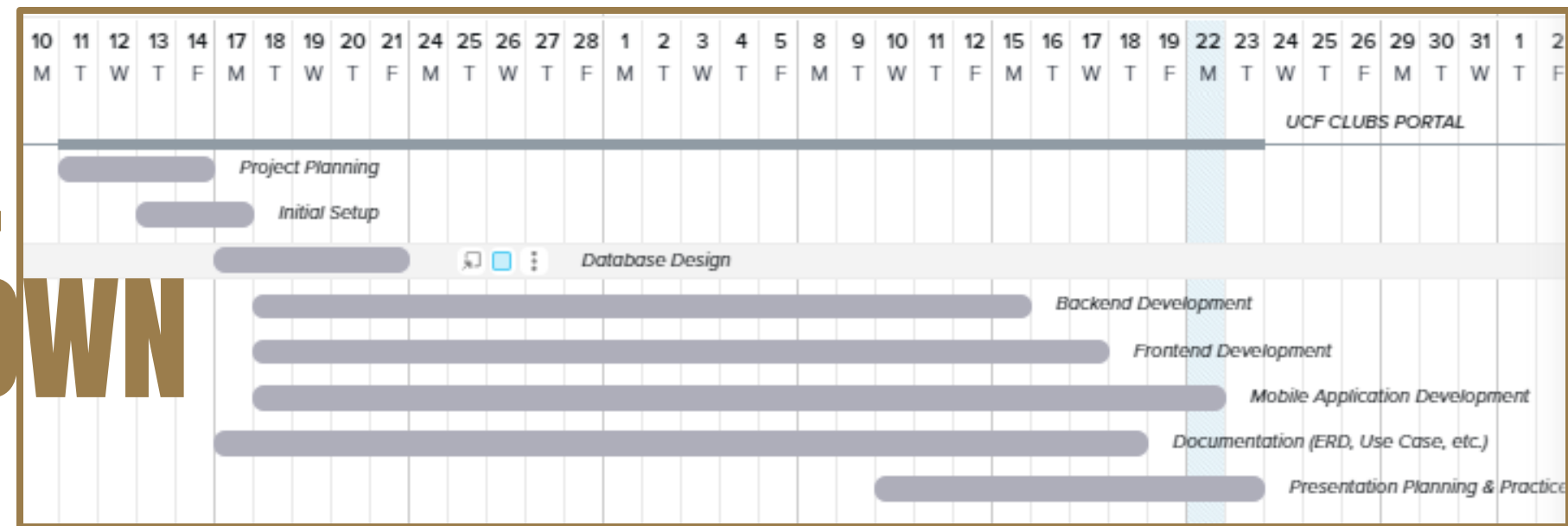


# Sequence Diagram



# GANTT

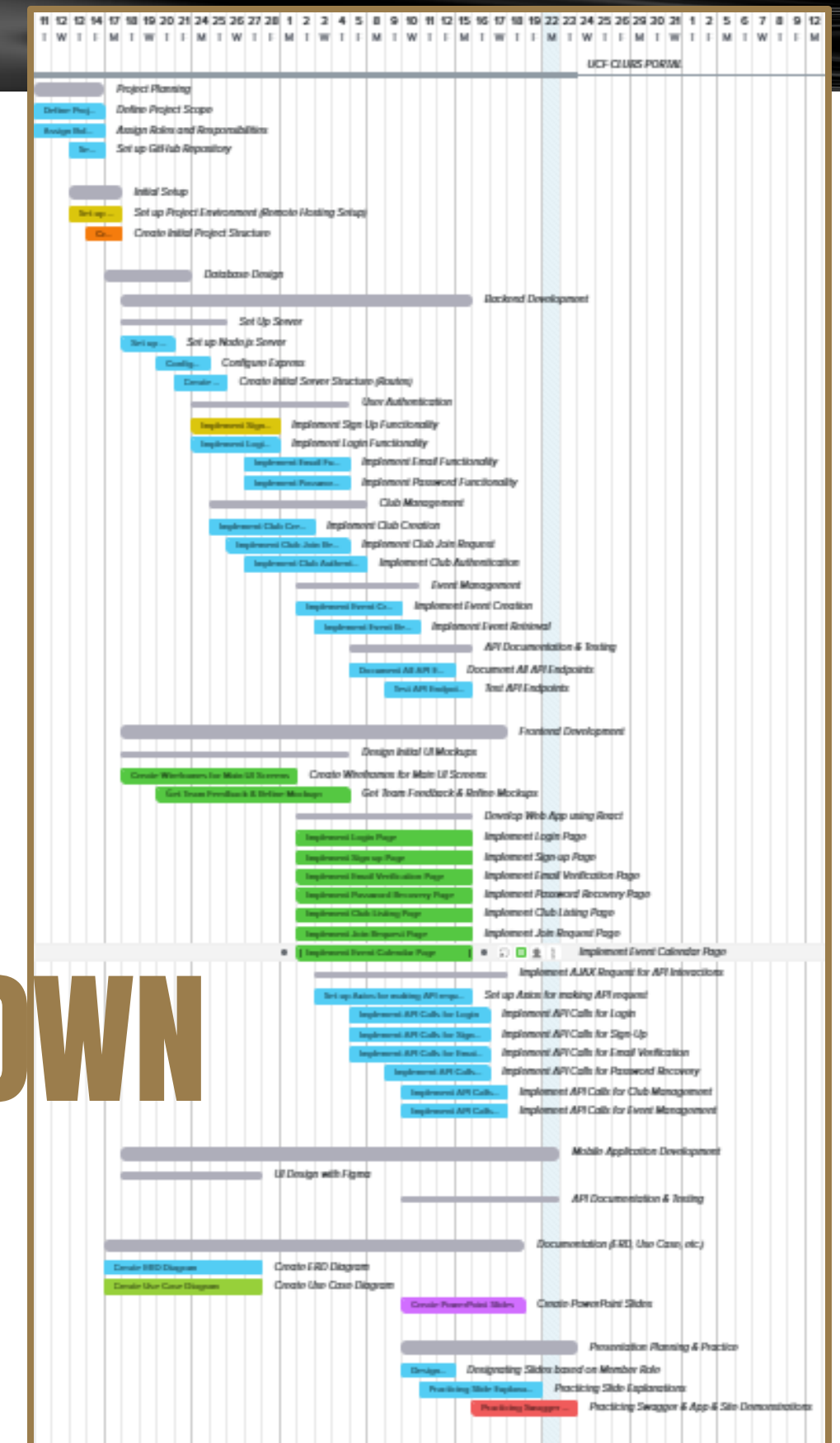
## GENERAL BREAKDOWN



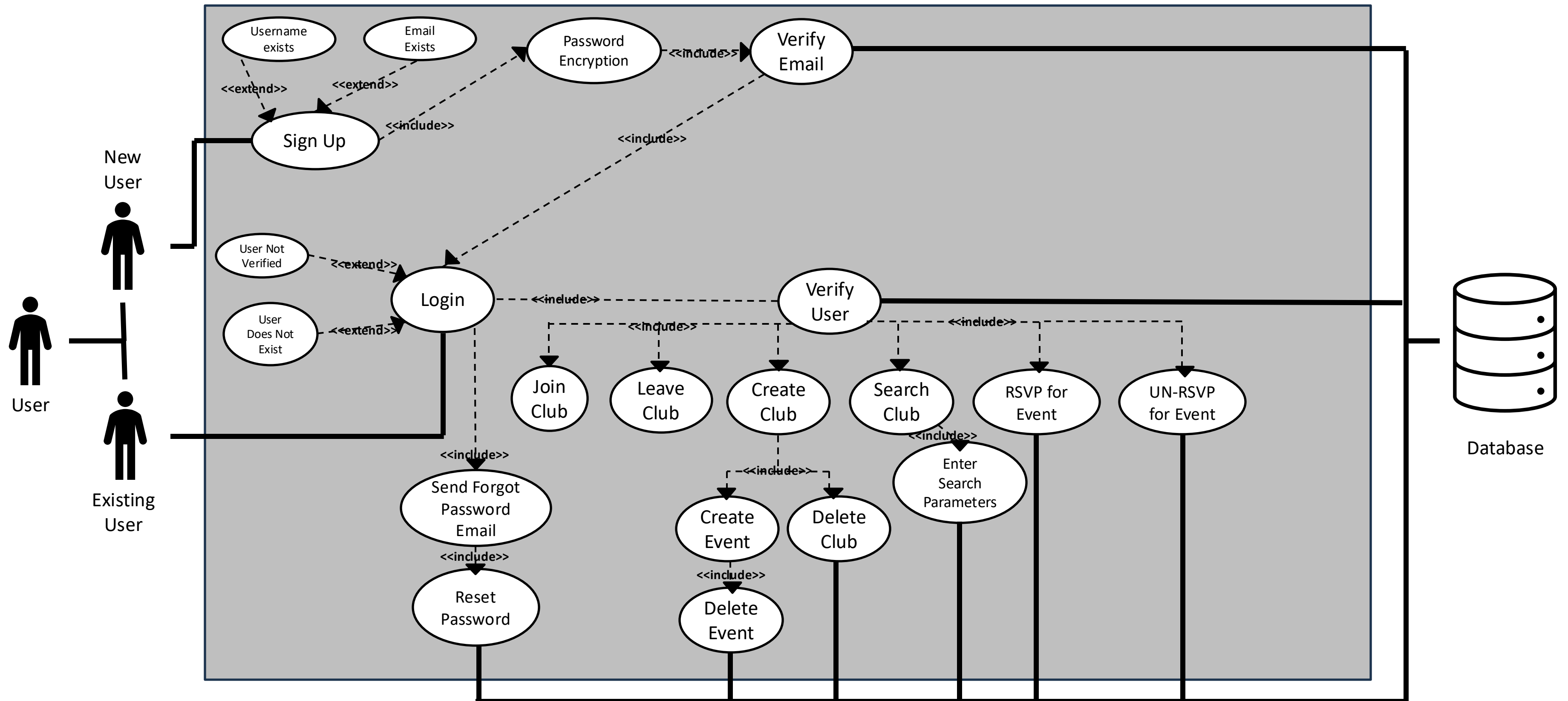
## List:

- Project Planning
- Initial Set Up
- Database Design Implementation
- Backend API Development
- Frontend Design & Development
- Mobile App Development
- Documentation
- Presentation Planning

## ALL INDIVIDUAL TASKS BREAKDOWN



# Use Case Diagram

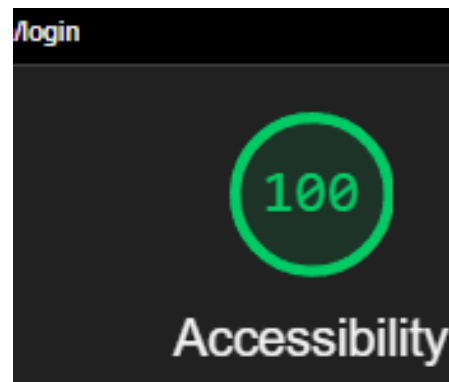




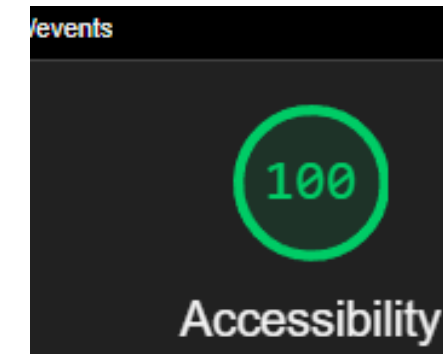
# Google Lighthouse



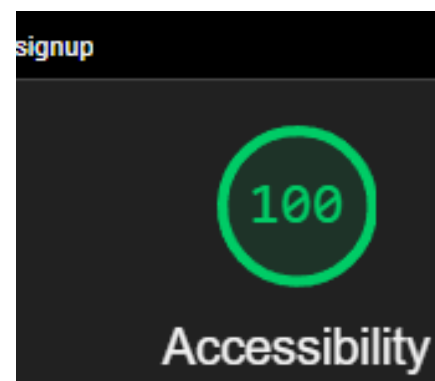
**Login**



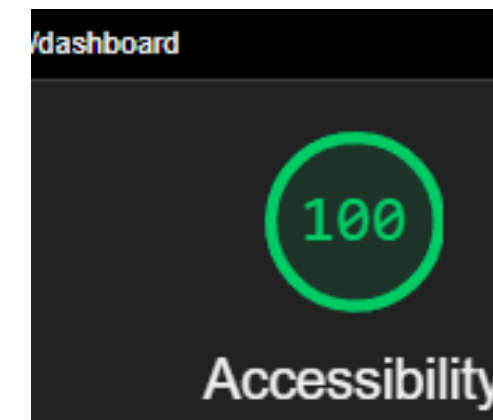
**Events**



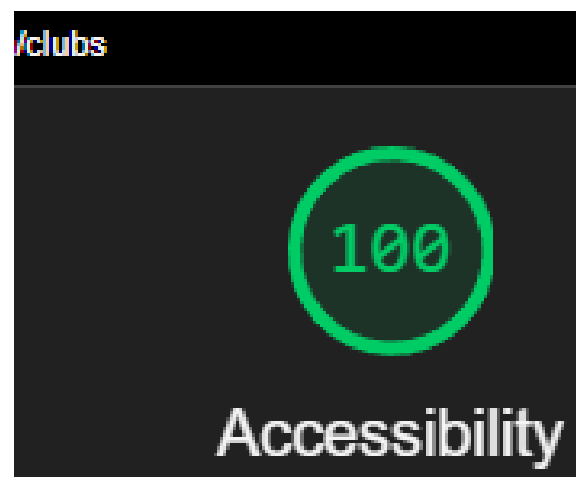
**Sign-up**



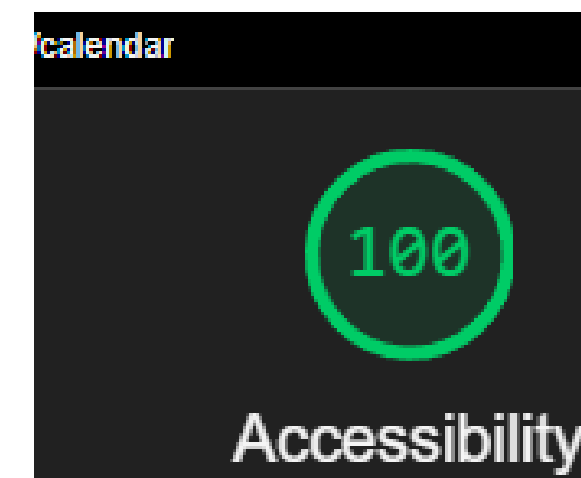
**Dashboard**



**Clubs**



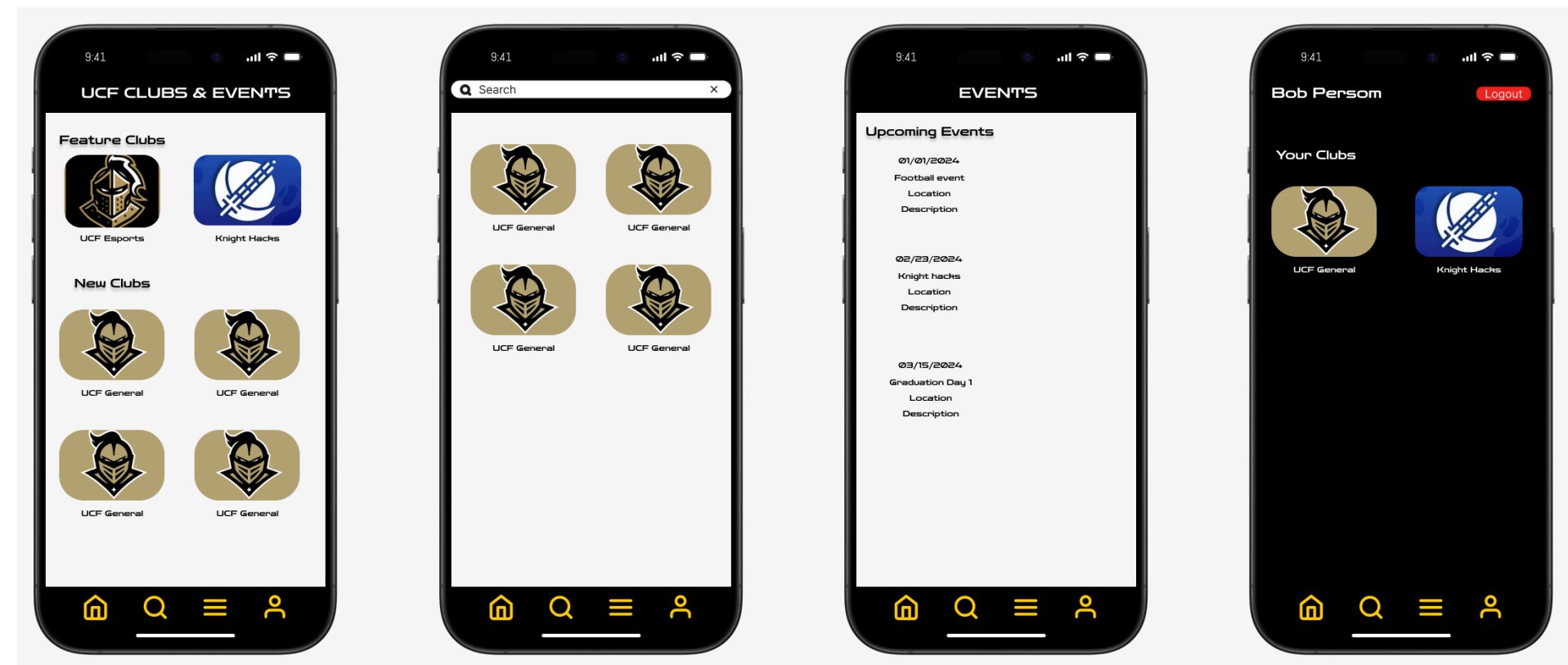
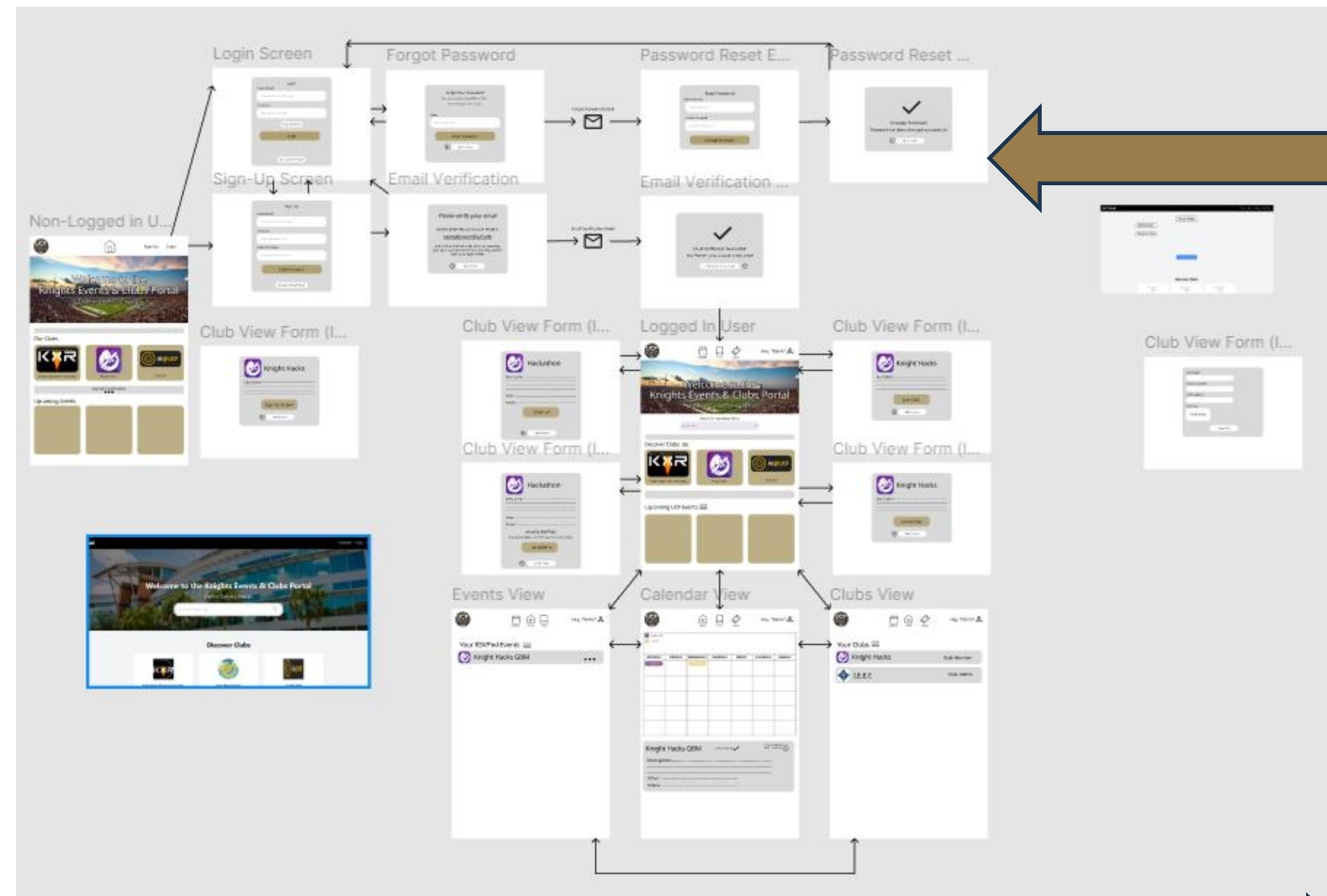
**Calendar**



# MOCKUPS

## WEB DESIGN WIREFRAMES

## APP DESIGN



# Palette

Color Palette Throughout the Website & App (Inspired by UCF Colors)

000000	→ NavBar, Text
F9BB0F	→ Hover Effects
FFCC00	→ Accent, Buttons
F5F5F5	→ Calendar, Event, Club Page Accents
FFFFFF	→ Background, Card Accents



# Unit Testing (Web & App)

## TestEmail.test.js

```
PASS test/testEmail.test.js
● Console

console.log
  Sending test email with the following configuration: {
    host: 'smtp.gmail.com',
    service: 'gmail',
    port: 587,
    secure: true,
    user: 'ucfclubsevents@gmail.com'
  }

  at log (testEmail.js:18:13)

console.log
  Test email sent successfully: mocked response

  at log (testEmail.js:33:13)

Test Suites: 3 passed, 3 total
Tests: 14 passed, 14 total
Snapshots: 0 total
Time: 3.925 s
Ran all test suites.
```

## emailRegex.test.js

```
PASS test/emailRegex.test.js
● Console

console.log
  Result for email.com: false

  at Object.log (test/emailRegex.test.js:6:17)

console.log
  Result for email@ddddcom: false

  at Object.log (test/emailRegex.test.js:12:17)

console.log
  Result for emailddd: false

  at Object.log (test/emailRegex.test.js:18:17)

console.log
  Result for email@.com: false

  at Object.log (test/emailRegex.test.js:24:17)

console.log
  Result for email@domain.c: false

  at Object.log (test/emailRegex.test.js:30:17)

console.log
  Result for empty string: false

  at Object.log (test/emailRegex.test.js:36:17)

console.log
  Result for tylon@gmail.com: true

  at Object.log (test/emailRegex.test.js:42:17)
```

## passwordValidator.test.js

```
PASS test/passwordValidator.test.js
● Console

console.log
  Password not long enough

  at log (passwordValidator.js:16:21)

console.log
  Password too long

  at log (passwordValidator.js:20:21)

console.log
  Has no uppercase letters

  at log (passwordValidator.js:26:17)

console.log
  Has no lowercase letters

  at log (passwordValidator.js:31:17)

console.log
  Has no numbers

  at log (passwordValidator.js:36:17)

console.log
  Has no special characters

  at log (passwordValidator.js:41:17)
```



# SwaggerHub



[LargeProject | 1.0.0 | RONDOISBOSS1000 1 | SwaggerHub](#)

# Website Demo



## Demo Agenda →

- Sign Up
- Email Verification
- Login (w/ Error Handling)
- Forgot Password
- Join / Leave Club
- RSVP / UN-RSVP
- Create Club
- Create Event
- Calendar View

[UCF Club & Events Manager \(ucf-club-and-event-manager-1c53fb944ab8.herokuapp.com\)](https://ucf-club-and-event-manager-1c53fb944ab8.herokuapp.com/)

# App Demo

- Time for the App Demo!!!

**Questions?**