

# CS 4850 – Senior Project Sections 02 & 03, Spring 2025

## 24-T1 OWL JUDGE

### Team Members

#### Name

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Minh Quang Vu

### STATS AND STATUS

Lines of Code	2500
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Components/Tools	11
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Estimated Hours	450
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Actual Hours	500
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## Table of Contents

<b>I. Introduction .....</b>	<b>3</b>
<b>II. Requirements .....</b>	<b>3</b>
1. Functional Requirements: .....	3
2. Non-Functional Requirements: .....	4
<b>III. Analysis / Design .....</b>	<b>4</b>
1. Analysis.....	4
2. Design.....	6
<b>IV. Development.....</b>	<b>17</b>
1. Backend Development: .....	17
2. Database Connection: .....	17
3. Frontend Development: .....	19
4. Security: .....	19
5. Setting Up the Project .....	19
<b>V. Test Plan and Test Report .....</b>	<b>21</b>
<b>VI. Version Control .....</b>	<b>22</b>
<b>VII. Conclusion .....</b>	<b>22</b>
<b>VIII. Appendix.....</b>	<b>22</b>
1. Project Plan: .....	22
2. Training Verification (if applicable): .....	25

## I. Introduction

This document provides an overview of the development, design, and implementation of the **OwlJudge Mobile Application**, a system created for digital judging of projects or events. The system automates the traditionally manual process, improving efficiency, accuracy, and transparency. The app aims to monitor the judging process, improve accuracy, and offer real-time updates for judges, participants, and administrators. This app is developed using React Native for the mobile app, PostgreSQL for database and Node.js for the backend. The app ensures a responsive and secure experience across mobile platforms.

### Goals and Objectives:

- Automate the event judging process to increase efficiency.
- Provide a user-friendly interface for judges and administrators.
- Ensure secure authentication and authorization through industry-standard protocols.
- Integrate PostgreSQL for reliable data storage and Redis for performance optimization.
- Enable real-time monitoring and analytics to track event progress.

### Key Features:

- Secure login with role-based access control for Admins, and Judges.
- Event and judge management with customizable scoring criteria.
- Real-time score submission and aggregation.
- Real-time ranking and performance analytics for event administrators.

## II. Requirements

### 1. Functional Requirements:

#### 1. User Management & Authentication:

- Secure login for judges, admins, and participants.
- Role-based access control (Admin, Judge).
- Password recovery and secure password management.

#### 2. Event Management:

- Admins can create, edit, and delete events.
- Bulk import of judge and project data.
- Event progress tracking for administrators.

#### 3. Project & Judge Assignment:

- Automated/manual assignment of judges to projects.
- Notifications to judges upon assignment.

#### 4. Digital Scoring System:

- Real-time score input and submission by judges.
- Auto-save scores periodically.
- Lock scores upon submission to prevent unauthorized changes.

### 5. Real-Time Score Aggregation & Ranking:

- Scores are aggregated in real-time as judges submit evaluations.
- Tie-breaker mechanisms for scoring conflicts.
- Real-time leaderboard and ranking for projects.

### 6. Reporting & Analytics:

- Real-time event analytics for administrators.
- Export of results in CSV/PDF format.

### 7. Security & Data Protection:

- Data encryption at rest and in transit.
- Audit logs for administrative actions and judge activity.
- Authentication using OAuth and JWT.

## 2. Non-Functional Requirements:

### 1. Performance:

- System must handle at least 100 concurrent users without degradation.
- Response times for score submission should be less than 2 seconds.

### 2. Scalability:

- multiple concurrent events without performance issues.

### 3. Usability:

- Mobile-first responsive design, ensuring the application works smoothly on every mobile device.

### 4. Reliability:

- System availability should be 99.9% during competition hours.
- Automated backups to prevent data loss.

### 5. Security:

- Compliant with FERPA and university IT security policies.

## III. Analysis / Design

### 1. Analysis

The **OwlJudge Mobile App** is designed using a **microservices architecture**. It is divided into several modular components:

#### Security Design:

- **Authentication & Authorization:** Implemented using **OAuth 2.0** and **JWT** to ensure secure user login and role-based access control.
- **Encryption:** Data is encrypted at rest and in transit using **TLS 1.3**.

#### System Architecture:

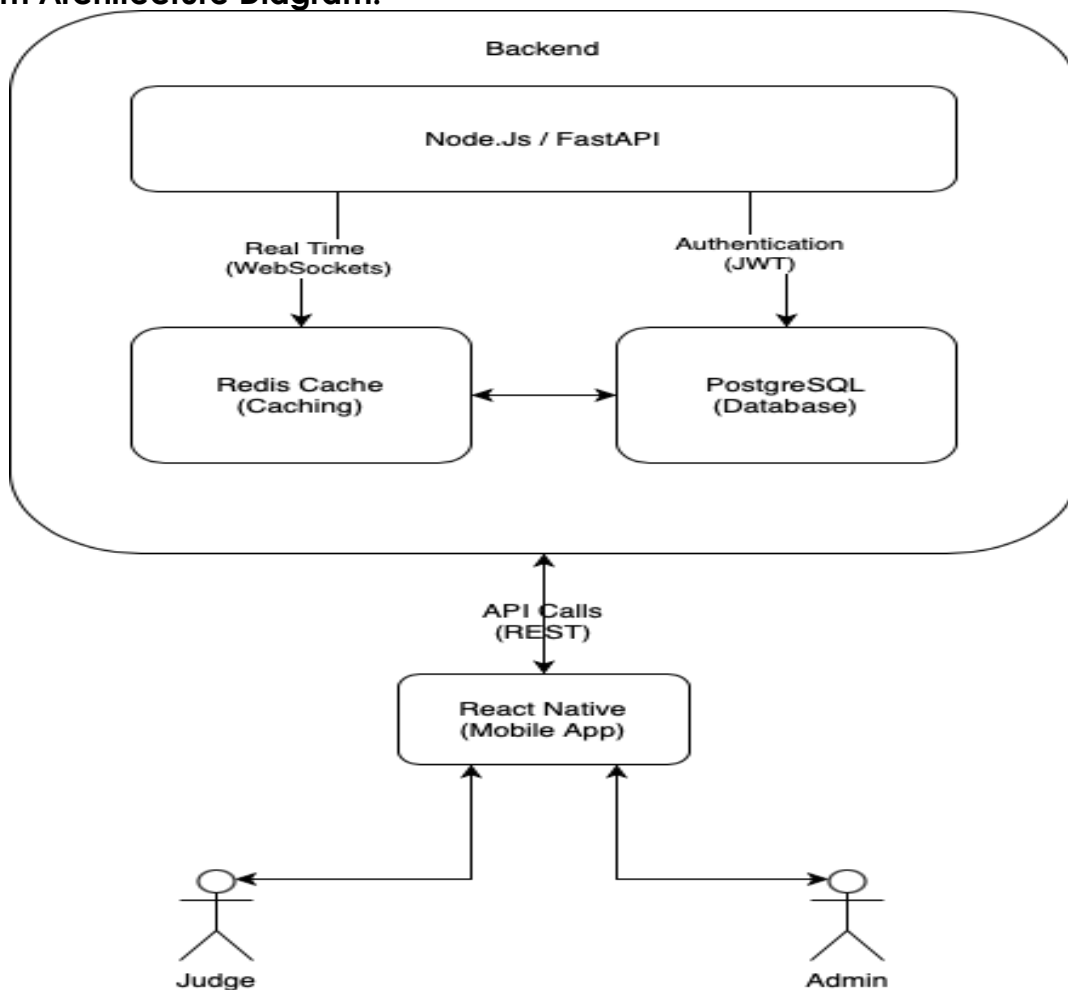
- **Frontend:** Developed using **React Native**, ensuring a responsive, mobile-friendly interface for judges and administrators.

- **Backend:** Built using **Node.js** (Express) or **Python (FastAPI)** to provide high-speed asynchronous processing.
- **Database:** **PostgreSQL** for structured data storage (users, events, scores), **Redis** for caching frequently accessed data.

### System Components:

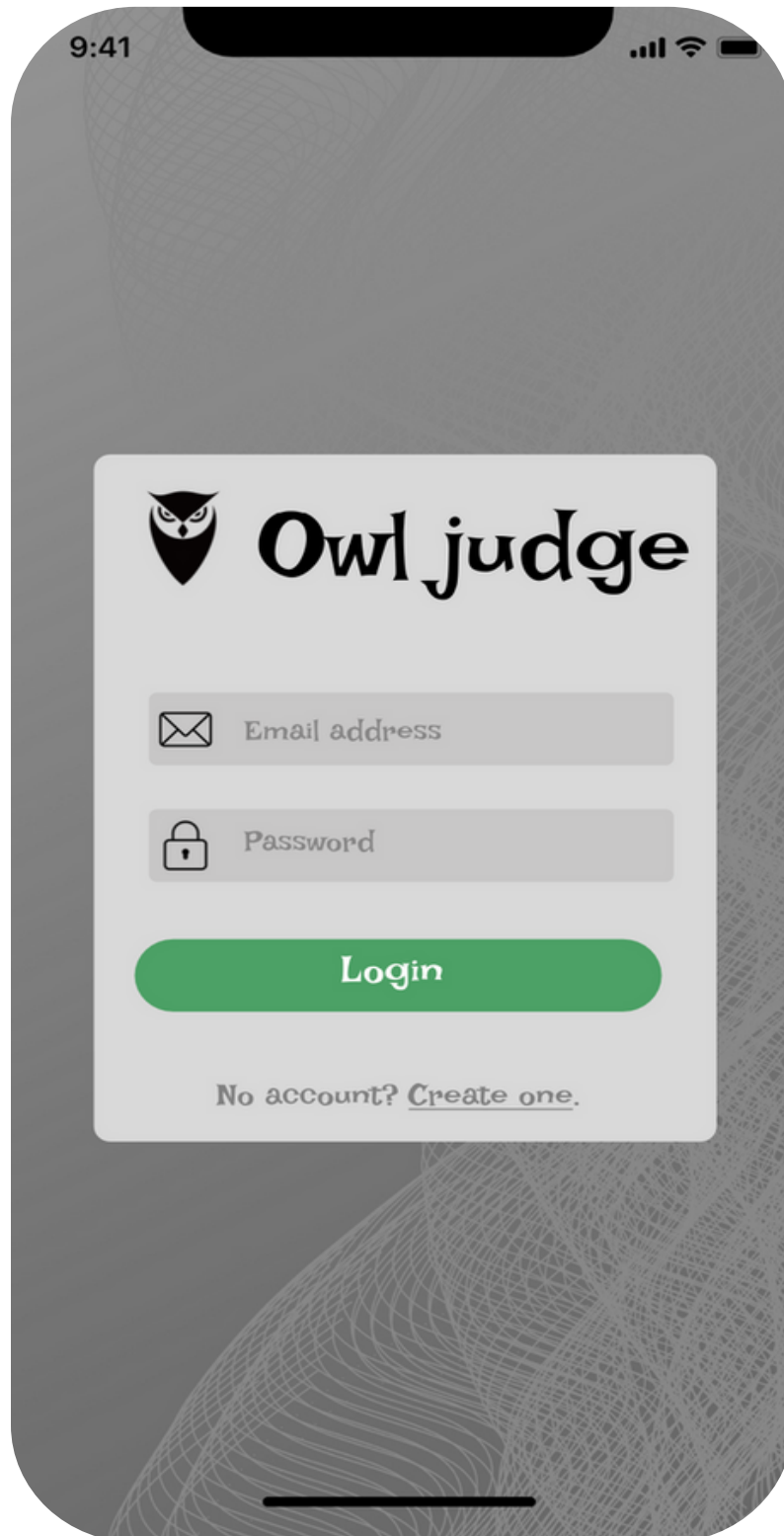
1. **User Management Service:** Handles login, registration, and user roles.
2. **Event Management Service:** Manages event creation, judge assignments, and event tracking.
3. **Project & Judge Assignment Service:** Ensures judges are assigned to projects in a fair and balanced manner.
4. **Scoring System:** Provides judges with an interface to input and submit scores.
5. **Reporting & Analytics Module:** Aggregates data and generates real-time reports for administrators.

### System Architecture Diagram:




## 2. Design


### - Login:




A mobile app login screen for 'Owl judge'. The background is a dark gray with a subtle, intricate line pattern. At the top, the status bar shows the time '9:41', signal strength, Wi-Fi, and battery. The login form is a light gray rounded rectangle in the center. It features the 'Owl judge' logo (an owl head icon) and the text 'Owl judge' in a serif font. Below the logo are two input fields: 'Email address' with an envelope icon and 'Password' with a lock icon. A green rounded button labeled 'Login' is positioned below the fields. At the bottom of the form, the text 'No account? [Create one.](#)' is displayed.

9:41

 Owl judge

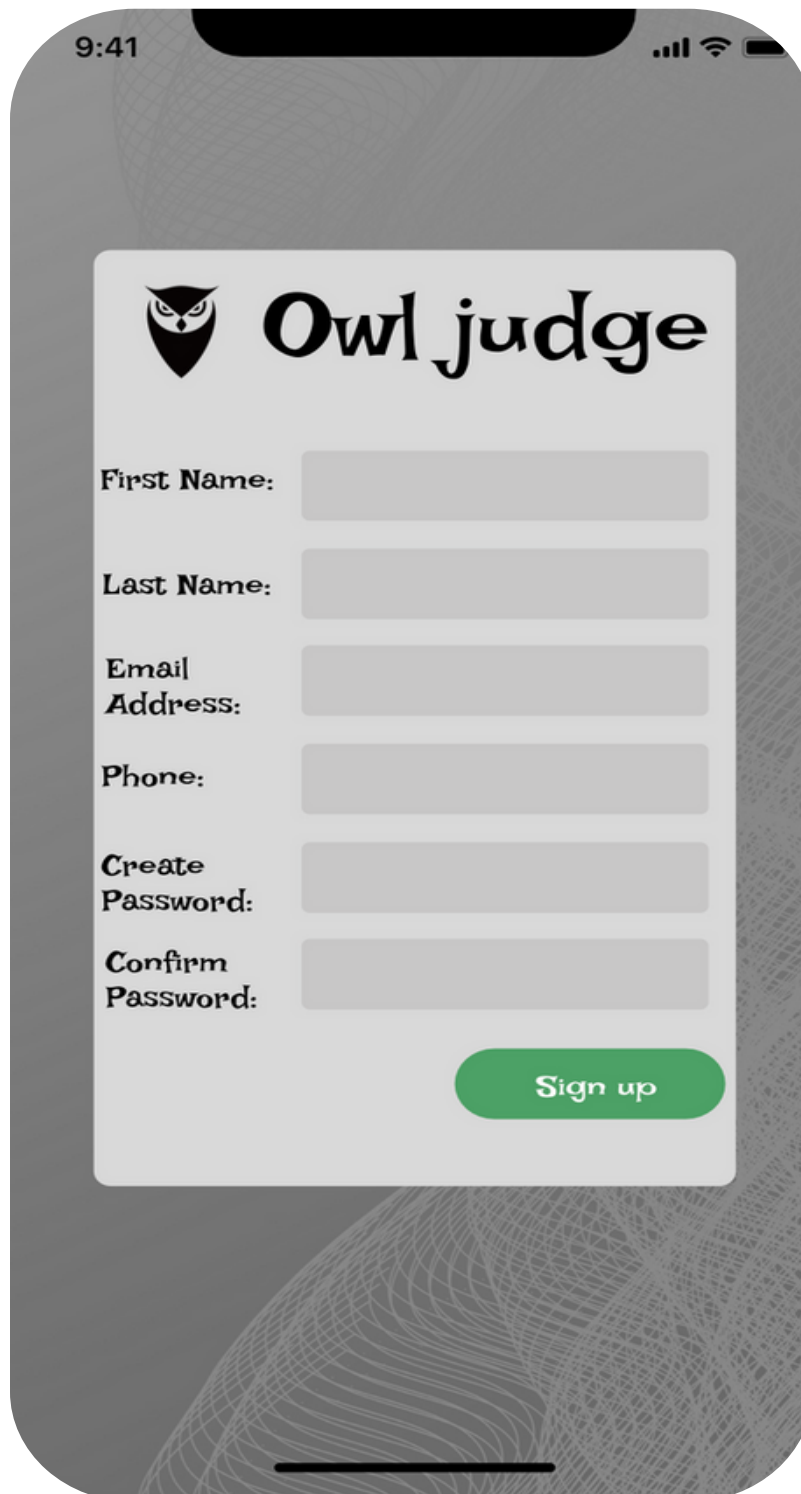
 Email address

 Password

Login


No account? [Create one.](#)

- Create an account:



A mobile app interface for 'Owl judge' showing a sign-up form. The background is dark grey with a subtle wireframe pattern. The form is a light grey rounded rectangle. At the top left of the form is an owl logo. The status bar at the top of the phone shows the time 9:41, signal strength, Wi-Fi, and battery. The form contains six input fields with labels to their left, and a green 'Sign up' button at the bottom right.

9:41

 **Owl judge**

First Name:

Last Name:

Email Address:

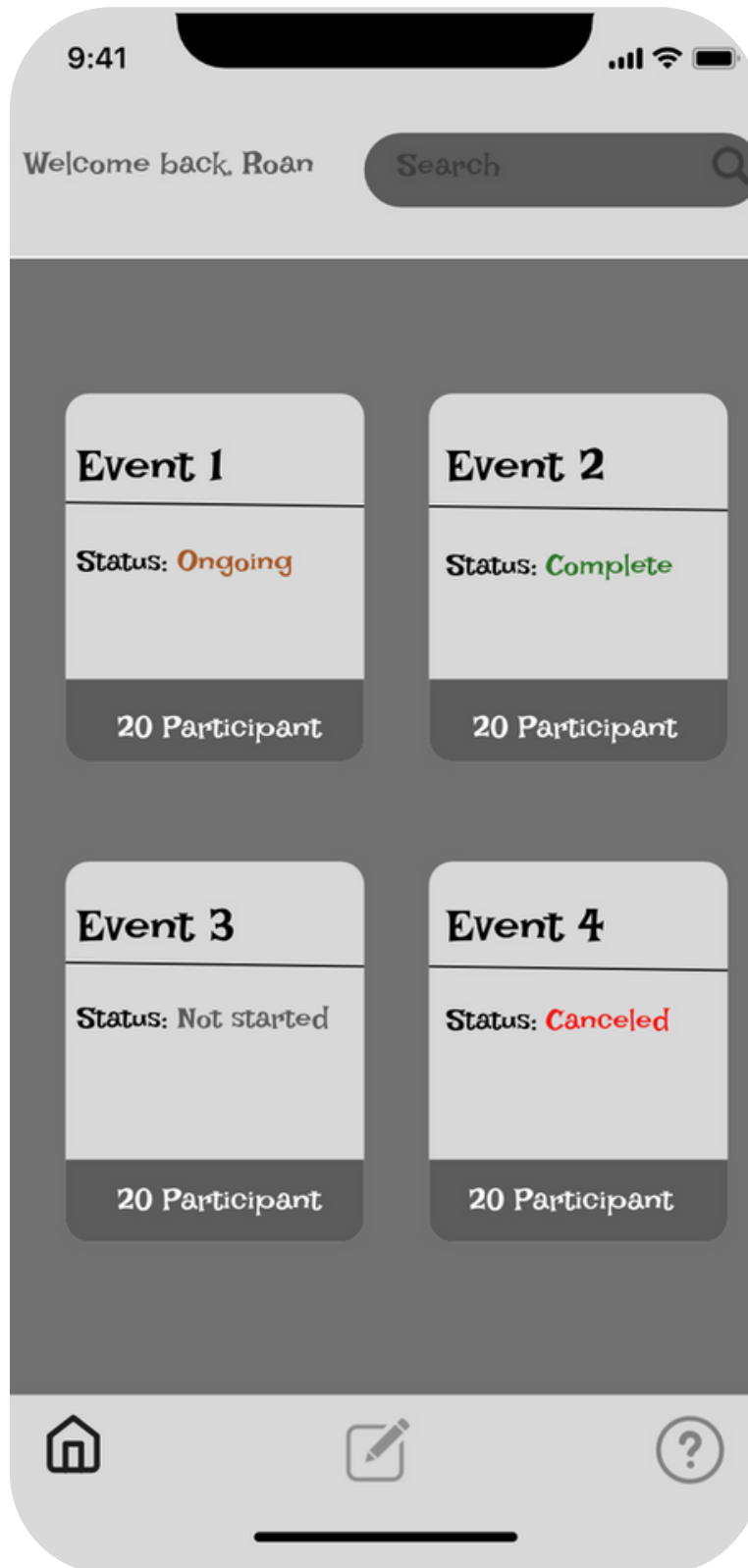
Phone:

Create Password:

Confirm Password:

**Sign up**

- Home (judge and admin):





- Event Informations (admin):

9:41

Event 1

From: 03/19/2025  
- 03/24/2025

ID: Ev\_\_0001

Judging Criteria

Search

Project name	Grade	Published
<u>Project 1</u>	<div></div>	<div></div> <div></div>
<u>Project 2</u>	<div></div>	<div></div> <div></div>
<u>Project 3</u>	<div></div>	<div></div> <div></div>
<u>Project 4</u>	<div></div>	<div></div> <div></div>
<u>Project 5</u>	<div></div>	<div></div> <div></div>
<u>Project 6</u>	<div></div>	<div></div> <div></div>
<u>Project 7</u>	<div></div>	<div></div> <div></div>
<u>Project 8</u>	<div></div>	<div></div> <div></div>
<u>Project 9</u>	<div></div>	<div></div> <div></div>

Add

- Project information(Admin):



The image shows a mobile application interface for managing project information. At the top, the status bar displays the time 9:41, signal strength, Wi-Fi, and battery icons. Below this, a header section contains the text "Event 1" and "ID: Ev\_\_0001" on the left, and "From: 03/19/2025 - 03/24/2025" on the right. The main content area is a form with several input fields: "Project name:", "Category:", "Participant name:", "Telephone:", "Description:" (a larger text area), "Link:", and "Grade:" (a slider control). A green "Create" button is located at the bottom right of the form. The bottom of the screen features a navigation bar with three icons: a house (home), a person (profile), and a question mark (help).

9:41

Event 1

ID: Ev\_\_0001

From: 03/19/2025  
- 03/24/2025

Project name:

Category:

Participant name:

Telephone:

Description:

Link:

Grade:


Create

- Create event(Admin):


9:41

# Create Event

Name:

Date:  




Location:

Number of projects:  

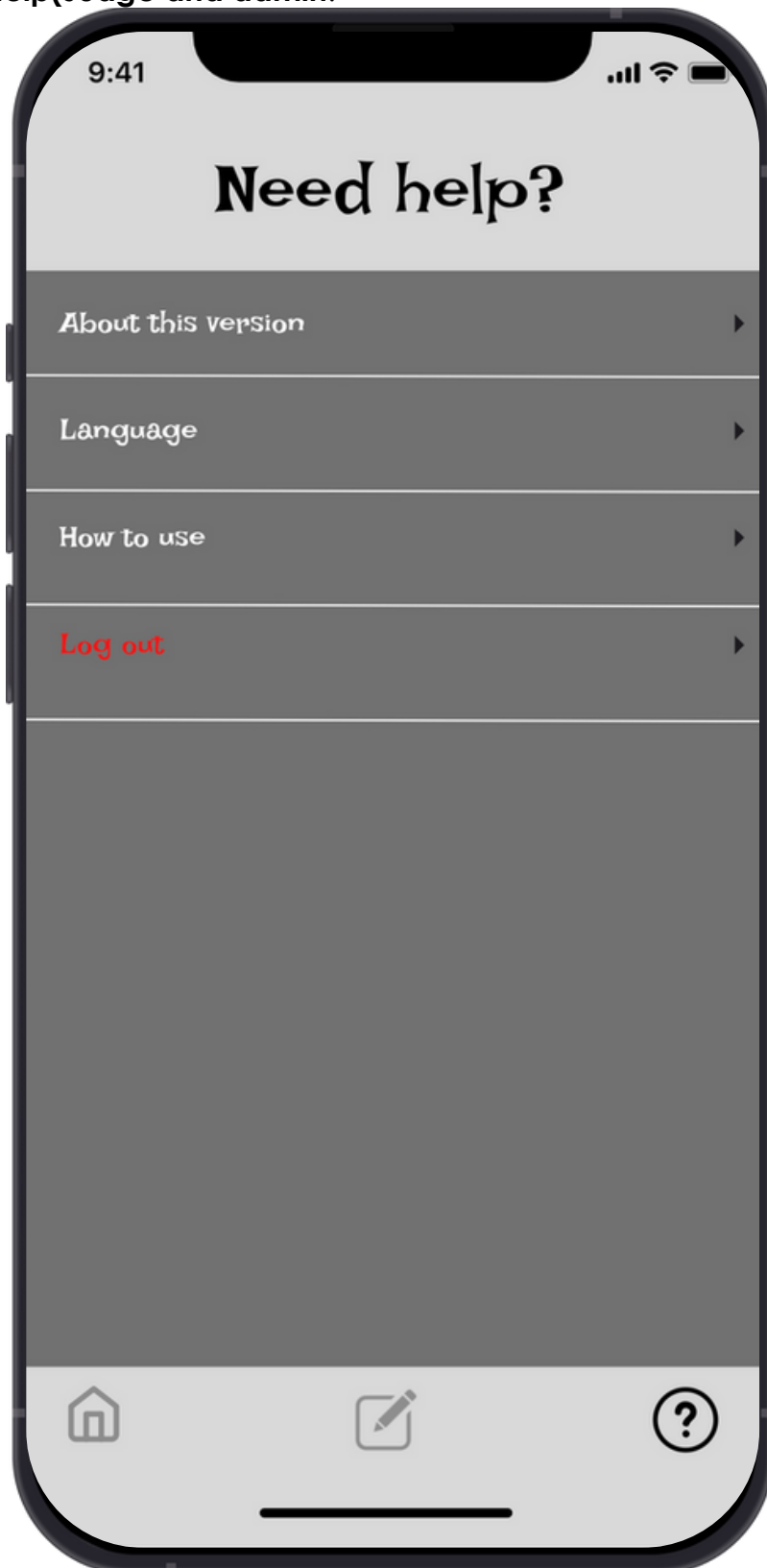
Judge(s):

Criteria(s):

Create

- Help(Judge and admin:



- Language / region(Judge and admin):

The image shows a mobile application interface on a smartphone. At the top, the status bar displays the time 9:41, signal strength, Wi-Fi, and battery icons. The app's title bar is light gray with the word "Language" in a large, black, serif font. Below the title bar is a dark gray background. In the center, there is a white rounded rectangle containing the instruction "Select the country/region and language." in a black serif font. Below this instruction are two dropdown menus. The first dropdown is labeled "Country/Region" and the second is labeled "Language", both in a black serif font. To the right of each label is a small downward-pointing triangle. At the bottom right of the white rounded rectangle is a green rounded button with the word "Submit" in white. At the very bottom of the screen is a white dock with three icons: a house icon, a square icon with a pencil, and a circle icon with a question mark.

9:41

# Language

Select the country/region and language.

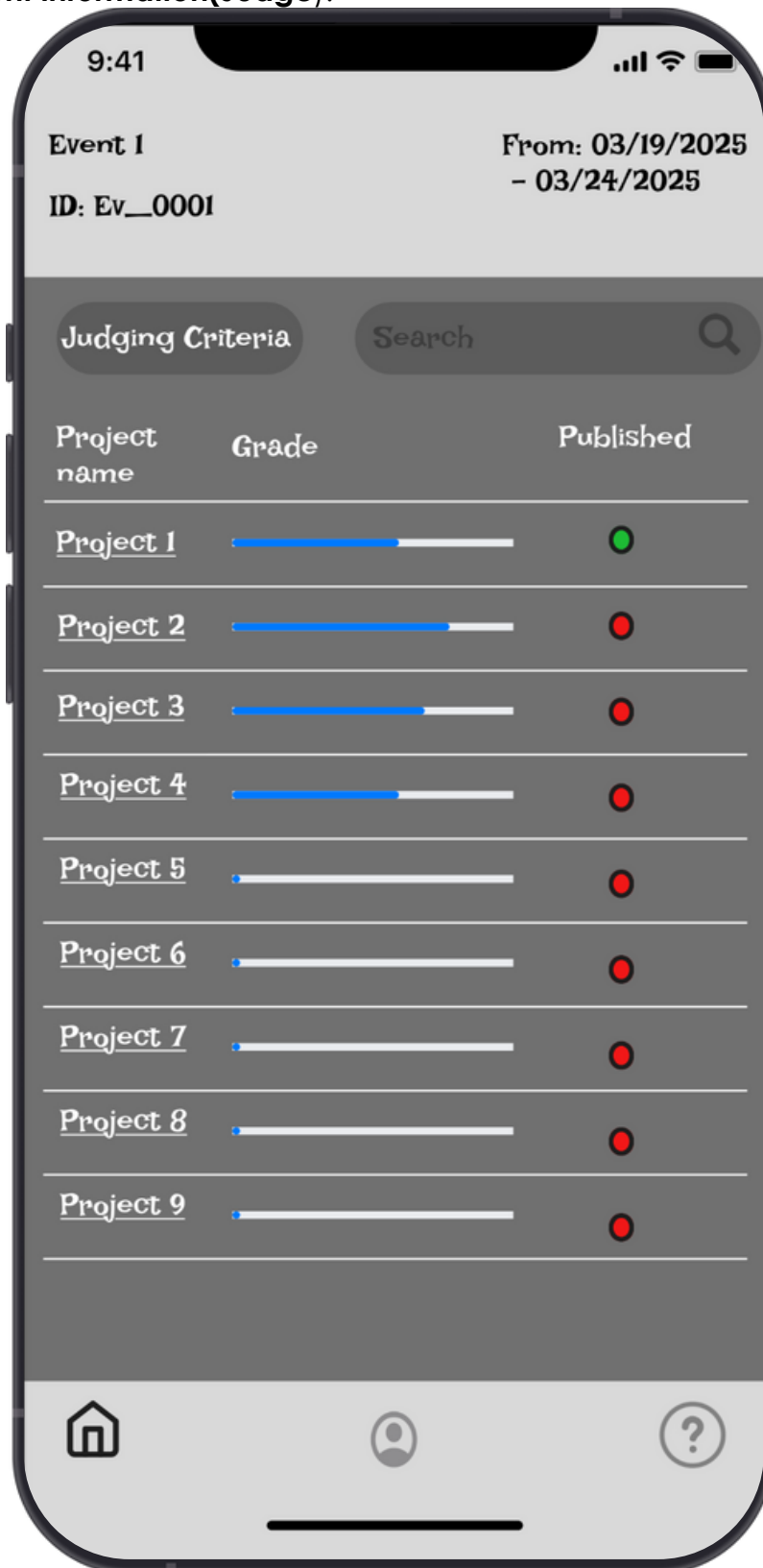
Country/Region ▼

Language ▼

Submit

Home Edit Help

- Event information(Judge):



- Project information(judge):

9:41

Event 1

From: 03/19/2025

ID: Ev\_\_0001

- 03/24/2025

Project name: Owl judge

Category: Programming

Participant name: Roan Simo Masso

Telephone: 4044931078

Description: It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. The point of using Lorem Ipsum is that it has a more-or-less normal distribution of letters, as opposed to using "Content here, co ...  
[Read More →](#)

Link: [https://www.youtube.com/watch?v=jKl0a\\_yCZE](https://www.youtube.com/watch?v=jKl0a_yCZE)

Grade:

Publish Submit

- View personal information(Judge):

The image shows a mobile application interface for viewing personal information. At the top, the status bar displays the time 9:41, signal strength, Wi-Fi, and battery icons. The main content area is a light gray card. At the top of the card is a circular profile picture placeholder with a camera icon and a green plus sign. Below this is a horizontal line. The form contains five labeled input fields: 'First Name:', 'Last Name:', 'Telephone:', 'Email:', and 'Role:'. The 'Role:' field is pre-filled with the text 'Judge'. At the bottom right of the card is a green button labeled 'Update?'. The bottom of the screen features a navigation bar with three icons: a house (Home), a person (Profile), and a question mark (Help/About).

9:41

First Name:

Last Name:

Telephone:

Email:

Role:

Update?



## IV. Development

### 1. Backend Development:

The backend API is built using **Node.js** for handling HTTP requests. The backend APIs were built using **FastAPI** for asynchronous support and high performance. **JWT** is used for user authentication, ensuring that only authorized users can access sensitive data and submit scores.

### 2. Database Connection:

In the **OwlJudge Web Application**, the database connection is one of the core components for handling and storing data, such as user information (admins, judges, participants), events, projects, and scores. The system uses **PostgreSQL** as the relational database management system (RDBMS) and **Redis** as an in-memory cache to enhance performance for frequently accessed data.

#### PostgreSQL Database Connection

To connect to the **PostgreSQL** database, we use **SQLAlchemy** with **FastAPI**. This allows us to manage database sessions, perform queries, and interact with the data stored in the database.

#### 1. Database Overview:

- **PostgreSQL** stores structured data like:
  - **Users:** Admins, Judges, and Participants
  - **Events:** Event details, dates, status
  - **Projects:** Project information, categories, participants
  - **Scores:** Scores and feedback from judges
- **Redis** is used for caching frequently queried data to reduce the load on the database and speed up access.

#### Setting Up PostgreSQL Connection with FastAPI

Here's an example of how the database connection works in the **OwlJudge** application.

Below are the code snippets for database connection:

#### Step 1: Install dependencies

```
pip install fastapi
pip install sqlalchemy
pip install psycopg2 # PostgreSQL driver
pip install redis
pip install uvicorn # For running the app
```

#### Step 2: Set up database connection

In your backend, create a file called `database.py` to manage the connection to the **PostgreSQL** database and the **Redis** cache.

```
from sqlalchemy import create_engine
from sqlalchemy.ext.declarative import declarative_base
from sqlalchemy.orm import sessionmaker

DATABASE_URL = "postgresql://username:password@localhost/dbname"

# SQLAlchemy setup
engine = create_engine(DATABASE_URL)
SessionLocal = sessionmaker(autocommit=False, autoflush=False,
                             bind=engine)
Base = declarative_base()

# Redis setup for caching
import redis
redis_client = redis.StrictRedis(host='localhost', port=6379, db=0)
```

- **DATABASE\_URL:** This string connects to the **PostgreSQL** database. Replace "username", "password", "localhost", and "dbname" with the actual credentials and database name.
- **Redis** is initialized to cache frequently accessed data. Here, Redis is connected on the default port (6379), and we're using **database 0**.

### Step 3: Create a database session

For each request that requires interacting with the database, you will need to create a session. This session will interact with the database and handle transactions.

```
def get_db():
    db = SessionLocal()
    try:
        yield db
    finally:
        db.close()
```

This function is used by FastAPI to provide a session to handle database queries in the routes.

### 3. Frontend Development:

The frontend was developed using **React Native** for mobile-first, responsive design. Judges can access their dashboard to evaluate projects, while admins can track event progress and scores in real time.

### 4. Security:

- **JWT Tokens** is used for authentication to ensure secure login.
- **TLS 1.3** encryption is implemented for all data transmission between the app and the backend.
- **Role-Based Access Control:** Admins, judges, and participants have specific permissions, ensuring that sensitive information is protected.

### 5. Setting Up the Project

#### Step 1: Clone the Repository

First, clone the **OwlJudge** repository from GitHub:

```
git clone https://github.com/ccseowljudge.git
cd ccseowljudge
```

#### Step 2: Install Dependencies

Use pip to install the required dependencies as mentioned earlier:

```
pip install -r requirements.txt
```

This will install FastAPI, SQLAlchemy, Redis, and other required libraries.

#### Step 3: Set Up the Database

a) Create PostgreSQL Database:

- If you're using PostgreSQL locally, create a database:

```
psql -U postgres
CREATE DATABASE owljudge;
```

b) Configure Environment Variables:

- Create a `.env` file in the root directory of your project to securely store database credentials:  
DB\_HOST=localhost

```
DB_USER=username
DB_PASSWORD=password
DB_NAME=owljudge
```

c) Run the Database Migrations:

- Use Alembic or SQLAlchemy's `Base.metadata.create_all()` method to create the tables:

```
python run.py
```

#### **Step 4: Configure Frontend**

##### **1. React Native Setup:**

- Make sure you have **Node.js** and **npm** installed.
- To install React Native dependencies:

```
npm install
```

##### **2. Mobile App Build:**

- To build the mobile app for both iOS and Android, use the following commands (ensure you have **Expo CLI** installed):

```
eas build:configure
eas build --platform all
```

#### **Step 5: Start the Application**

##### **1. Run the Backend:**

- To start the backend server using Uvicorn (for FastAPI), run:

```
bash
```

Copy

```
uvicorn main:app --reload
```

##### **2. Run the Frontend (React Native):**

- To start the mobile app in development mode:

```
npm start
```

## V. Test Plan and Test Report

### Test Methodology:

- **Manual Testing:** Performed to simulate real-world usage scenarios, including user login, event creation, and score submission.
- **Automated Testing:** Focused on security (e.g., login attempts, data encryption), performance (e.g., load testing), and system stability.
- **User Acceptance Testing (UAT):** Real users (admins and judges) tested key features such as login, score submission, and event creation.

### Test Results:

- **User Login:** Pass – Users can log in successfully with valid credentials.
- **Score Submission:** Pass – Judges can submit scores without issues.
- **Event Creation:** Pass – Admins can create events with correct data.
- **Real-Time Score Aggregation:** Pass – Scores update in real-time as judges submit evaluations.
- **System Performance under Load:** Pass – The system can handle 100 concurrent users without performance degradation.

Requirement	Expected Outcome	Pass/Fail	Severity
User Login	Users can log in successfully with valid credentials	Pass	Minor
Score Submission by Judge	Judges can submit scores without issues	Pass	Major
Event Creation by Admin	Admin can create events with correct data	Pass	Critical
Event Deletion and Modification	Admin can delete or modify events correctly	Pass	Critical
Email Notifications to Judges	Judges receive email notifications after assignment	Pass	Minor
Project and Judge Assignment	Judges are assigned to projects correctly	Pass	Critical
Judge Notifications for Project Assignment	Judges receive notifications about project assignments	Pass	Minor
Score Auto-Saving	Scores are auto-saved periodically to prevent data loss	Pass	Major
Score Locking After Submission	Scores are locked to prevent unauthorized changes after submission	Pass	Critical
Real-Time Score Aggregation	Scores update in real-time as judges submit evaluations	Pass	Critical
Tie-Breaking Mechanism	Tie-breaker mechanism works when scores are tied	Pass	Major
Export Results to CSV/PDF	Results can be exported in CSV or PDF format	Pass	Major
System Performance under Load (100 users)	System can handle 100 concurrent users without performance degradation	Pass	Critical

Real-Time Event Analytics for Admin	Admin can access real-time event analytics during the event	Pass	Minor
Password Recovery	Password recovery process works as expected	Pass	Minor

## VI. Version Control

### Version Control System:

- The project uses **GitHub** for version control. All team members commit their changes regularly, and the repository is maintained under an organization account for better collaboration.
- **Branching Strategy:** Each feature or fix is developed in its own branch, which is merged into the main branch after thorough testing.

### Access Control:

- The repository is private during development, with access restricted to the project team members. Once the project is complete, the repository will be made public for final release.

## VII. Conclusion

The **OwlJudge Mobile app** successfully digitizes the judging process for event such as the **C-Day** event at **Kennesaw State University**, improving the accuracy, efficiency, and transparency of event management. The system meets all functional and non-functional requirements, including real-time score aggregation, secure authentication, and scalability for large events. The project is now complete and fully operational, with all tests passing as expected.

Moving forward, future enhancements include the integration of AI-driven analytics to assist with scoring adjustments and expanded scalability to support multi-institutional events.

## VIII. Appendix

### 1. Project Plan:

#### a) Project Overview / Abstract

The CCSE OwlJudge Web Application is a scalable, secure, and user-friendly platform designed to enhance the digital judging process for Kennesaw State University's C-Day event. The application will enable judges to evaluate capstone projects efficiently, ensuring fairness and transparency. It will feature real-time scoring, project tracking, and seamless integration with university systems.

b) Project Website

**URL:** Temporary Placeholder:

[www.ccseowljudge.com](http://www.ccseowljudge.com) (This will no longer be used because we are developing a mobile app)

c) Deliverables

The project will produce the following key deliverables to demonstrate its success and functionality:

1. **Final Report:** A comprehensive summary of the project, including design choices, results, and challenges encountered.
2. **Source Code:** Fully documented and structured code available on a GitHub organization account.
3. **Website with GitHub Integration:** A central platform that connects all project components.
4. **Final Presentation Video:** A video walkthrough showcasing the application's features.
5. **Weekly Activity Reports:** Regular updates to track progress and maintain accountability.
6. **Technical Documentation:** Detailed guides for setup, usage, and further development.
7. **Prototype Presentations:** Iterative demos to gather feedback during development.
8. **Fully Deployed Application:** The final version of the application, hosted on AWS.

d) Group Meeting Schedule

Meetings will be held regularly to ensure coordination among team members:

- **FaceTime:** Fridays at 6 PM for informal discussions and check-ins.
- **Teams:** Mondays and Wednesdays at 11 AM for in-depth technical planning.
- **In-person:** As needed, for critical technical discussions and debugging sessions.

e) Collaboration and Communication Plan

- Teams for virtual meetings

- Google Drive for shared documents
- GitHub for version control and code sharing
- Trello for task management

f) Project Schedule and Task Planning

The project will follow the Software Development Life Cycle (SDLC) stages:

**Initiation Phase:**

- Kickoff meeting: Jan 22, 2025
- Requirements gathering: Jan 29, 2025

**Planning Phase:**

- Database schema design: Feb 17, 2025
- System architecture planning: Mar 03, 2025

**Execution Phase:**

- Backend development: Mar 10, 2025
- Frontend development: Mar 17, 2025

**Closure Phase:**

- Testing and QA: Apr 07, 2025
- Deployment: Apr 13, 2025
- Final Adjustments: Apr 17, 2025
- Final presentation C-Day: Apr 22, 2025

**Gantt Chart:**

Project Name: OWL JUDGE		Report Date: 1/23/25																	
Phase	Tasks	Complete%	Current Status Memo	Assigned To	Milestone #1				Milestone #2				Milestone #3				C-Day		
Requirements	Meet with stakeholder(s) SH	50%	Delayed	Lumiere, James	10	4													
	Define requirements																		
	Review requirements with SH	10%		Lumiere		10	15												
	Get sign off on requirements	0%		James			5	10											
Project design	Define tech required *	0%		Bill				10	4										
	Database design	0%		James, Bill				5	10	10									
	Front End design	0%		Lumiere, Minh						10	10								
	Develop working prototype	0%		Bill						10	10								
	Test prototype	0%		Lumiere						5	10	5							
	Review prototype design	0%		Bill							8	5	10						
Development	Rework requirements	0%		James							8	10	20	20					
	Document updated design	0%		Lumiere									10	10					
	Test product	0%		Minh								8	5	20					
	Presentation preparation	0%		Lumiere, Minh, Bill, James										15	10	10			
Final report	Poster preparation	0%		Lumiere, James												10	10		
	Final report submission to D2L and project owner	0%														5			
	Total work hours				337	10	14	20	25	14	30	25	26	20	38	35	45	10	25

\* formally define how you will develop this project including source code management

<b>Legend</b>	
Planned	
Delayed	
Number Work: man hours	



## g) Other Plans

### **Risk Assessment:**

- Identify risks related to AWS resource constraints, performance bottlenecks, and data security.
- Mitigation Plan: Optimize resource usage, conduct regular performance testing, and encrypt sensitive data.

## h) Version Control Plan

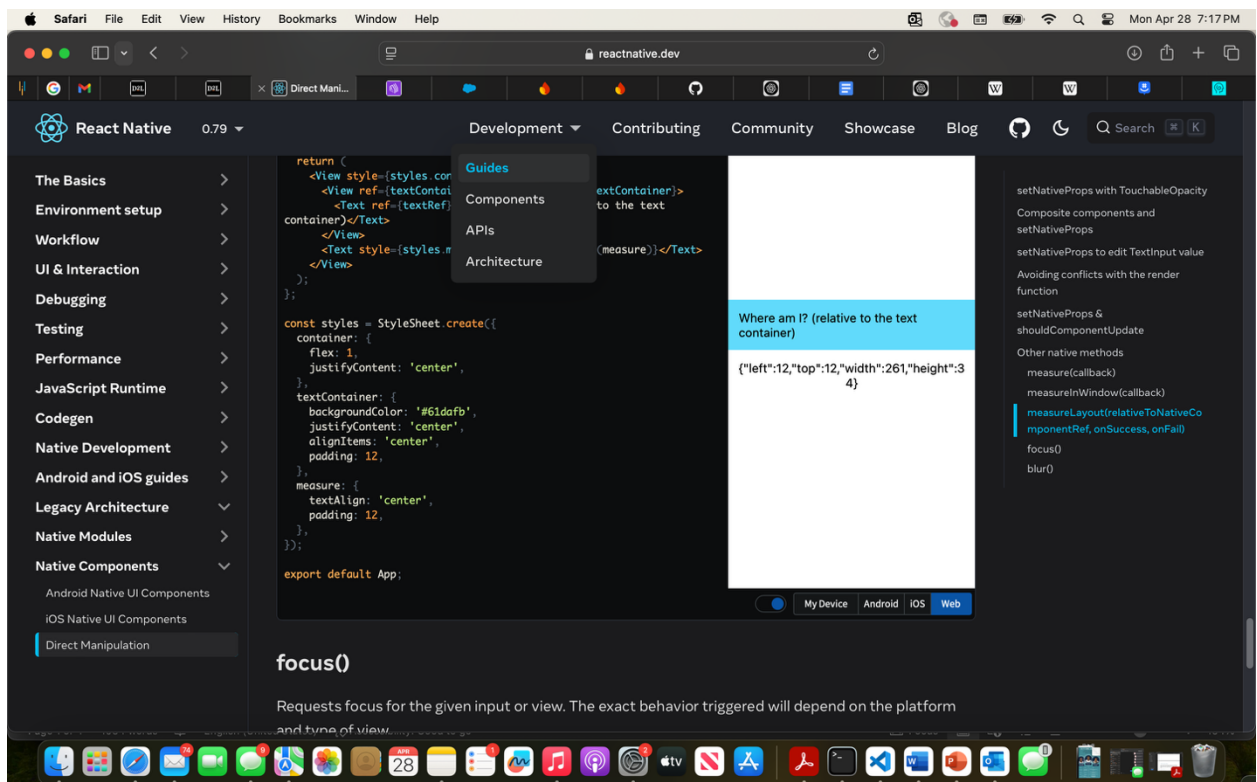
### **Version Control:** GitHub organization account

- **Purpose:** To manage version history and collaboration efficiently.
- **Access Control:** Team members only; public repository for final release.

## 2. Training Verification (if applicable):

We all completed the react native tutorial and below are screen shots of the final module completed by each membe.

- Roan Simo Masso



- Nathanael Fokou

Course Home Content Discussions Assignments Quizzes Other ▾ Classlist Grades

Table of Contents > Tutorials > Mobile Apps > Flutter & React Native

## Flutter & React Native ▾

React Native 0.79 ▾
 Development ▾ Contributing Community Showcase Blog

The Basics >

Environment setup >

Workflow >

UI & Interaction >

Debugging >

Testing >

Performance >

JavaScript Runtime >

Codegen >

Native Development >

Android and iOS guides >

Legacy Architecture ▾

Native Modules >

Native Components ▾

Android Native UI Components

iOS Native UI Components

Direct Manipulation

measureLayout example ⓘ

```

return (
  <View style={styles.container}>
    <View ref={textContainerRef}
      style={styles.textContainer}>
      <Text ref={textRef}>Where am I?
    </Text>
    </View>
    <Text
      style={styles.measure}>[JSON.stringify(measure)]</Text>
    </View>
  );
};

const styles = StyleSheet.create({
  container: {
    flex: 1,
    justifyContent: 'center',
  },
  textContainer: {
    backgroundColor: '#61dafb',
    justifyContent: 'center',
    alignItems: 'center',
    padding: 12,
  },
  measure: {
    textAlign: 'center',
    padding: 12,
  },
});

```

Where am I? (relative to the text container)

```
{'left':12,'top':12,'width':261,'height':34}
```

setNativeProps with TouchableOpacity

Composite components and setNativeProps

setNativeProps to edit TextInput value

Avoiding conflicts with the render function

setNativeProps & shouldComponentUpdate

Other native methods

measure(callback)

measureInWindow(callback)

measureLayout(relativeToNativeComponentRef, onSuccess, onFail)

focus()

blur()

- Lumiere Nathan Kue

React Native 0.79 ▾
 Development ▾ Contributing Community Showcase Blog

The Basics ▾

Introduction

Core Components and Native Components

React Fundamentals

Handling Text Input

Using a ScrollView

Using List Views

Troubleshooting

Platform-Specific Code

More Resources

Environment setup ▾

Get Started with React Native

Set Up Your Environment

Integration with Existing Apps

Integration with an Android Fragment

Building For TV Devices

Out-of-Tree Platforms

Workflow >

UI & Interaction >

Debugging >

Testing ▾

Testing

Performance >

JavaScript Runtime >

Codegen >

Native Development >

```

const styles = StyleSheet.create({
  container: {
    flex: 1,
    justifyContent: 'center',
  },
  textContainer: {
    backgroundColor: '#61dafb',
    justifyContent: 'center',
    alignItems: 'center',
    padding: 12,
  },
  measure: {

```

**focus()**

Requests focus for the given input or view. The exact behavior triggered will depend on the platform and type of view.

**blur()**

Removes focus from an input or view. This is the opposite of `focus()`.

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Edit page for next release Edit page for current release

Previous

« iOS Native UI Components

Last updated on Apr 14, 2025

setNativeProps with TouchableOpacity

Composite components and setNativeProps

setNativeProps to edit TextInput value

Avoiding conflicts with the render function

setNativeProps & shouldComponentUpdate

Other native methods

measure(callback)

measureInWindow(callback)

measureLayout(relativeToNativeComponentRef, onSuccess, onFail)

focus()

blur()