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Milestone 2: Requirements (Analysis Phase)

Jeff Johnson

CST-451 Capstone Project Requirements Document

Grand Canyon University

Instructor: Professor Mark Reha

Revision: 3

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## **ABSTRACT**

The project is a mobile application for high school baseball players who seek recruitment attention from college scouts. In today's state of high school recruitment (especially baseball), many players miss out on college recruitment due to the expenses of travel baseball teams, recruitment camps, and private events hosted by colleges. Scoutbase was created for athletes who may not be able to afford the expensive process of college recruitment, with the ability to connect with college coaches seeking athletes that fit their skillset.

There are three options when creating your account, users may sign up as an athlete, a coach, or a scout. All options will require a secure email and password to prevent spam on the app. Athletes have the option to list their height and weight, high school, the position(s) they play, and upload media for scouts to watch. Coaches have the ability to search for players with certain skill sets, archetypes, locations, whether they are left-handed or right-handed, among others. Additionally, coaches will be able to make a profile of their own where they can list their team needs, their school name, their position within the organization, and a short bio. The scout option is for those who want the ability to search for and connect with athletes, but will not have the option to create a public profile for players to view.

**History and Signoff Sheet**

**Change Record**

<b>Date</b>	<b>Author</b>	<b>Revision Notes</b>
1/10/25	Jeff	First update to reflect significant code progress
4/18/2025	Jeff	Minor adjustments to update to reflect final code drop.

**Overall Instructor Feedback/Comments**

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**Integrated Instructor Feedback into Project Documentation**

Yes  No

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## Functional Requirements

The functional requirements for this application, primarily focus on the features of the application, including registration and login, searching for a profile, editing a profile, among others.

User stories are located in the Excel file attached with the assignment submission.

## Use Cases

Feature	User Story (Location in Excel File)	Use case
Registration	ID-3	The system shall allow users to securely register an account with their desired user role
Login	ID-1	The system shall allow users to securely login to the application with an existing account
Search	ID13-18, ID34-44	The system shall allow for users to search for compatible accounts (ie: Coaches to Athletes)
Edit Profile	ID9-12, ID28-32, ID45-46	The system shall allow for users to view their account information and make changes as necessary
Home	ID-2	The system shall allow users of all types to view relevant articles in the home page
Contact Information	ID-19, ID-34	The system shall allow a logged in user to view another user's contact information

## Non-Functional Requirements

The non-functional requirements for this application include measuring the security of the user data stored in the application's database. Listed below are the requirements as of this revision.

## Use Cases

<b>Feature</b>	<b>Result</b>	<b>Constraint</b>
Password Stored	Passwords will be encrypted in the database	Database will not display the passwords in plain text format, it will be encrypted

## Technical Requirements

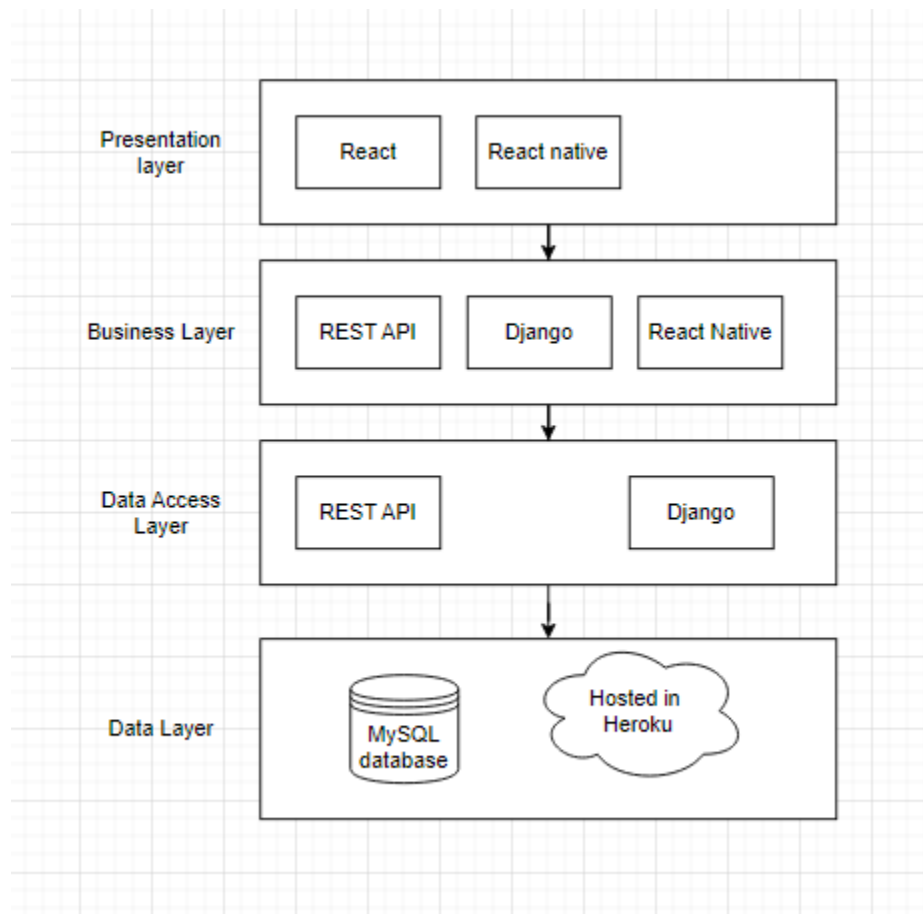
### Use Cases

The application utilizes several technologies and frameworks to produce the complete application. The technical requirements for this application are listed below.

<b>Technology or Tool</b>	<b>Version</b>	<b>Justification</b>
Visual Studio Code IDE	v1.94	IDE with support for all necessary frameworks, including React Native, Django, and MySQL
React Native	v0.75	Front end framework for application, specializing in mobile development
React	v18	Front-end library for application, selected for it's flexibility and compatibility with react native
Django	v5.1.2	Back-end framework for application, selected for it's features in REST API development and the Python language
Swagger	v 3.1.0	Third party application used for API testing and documentation

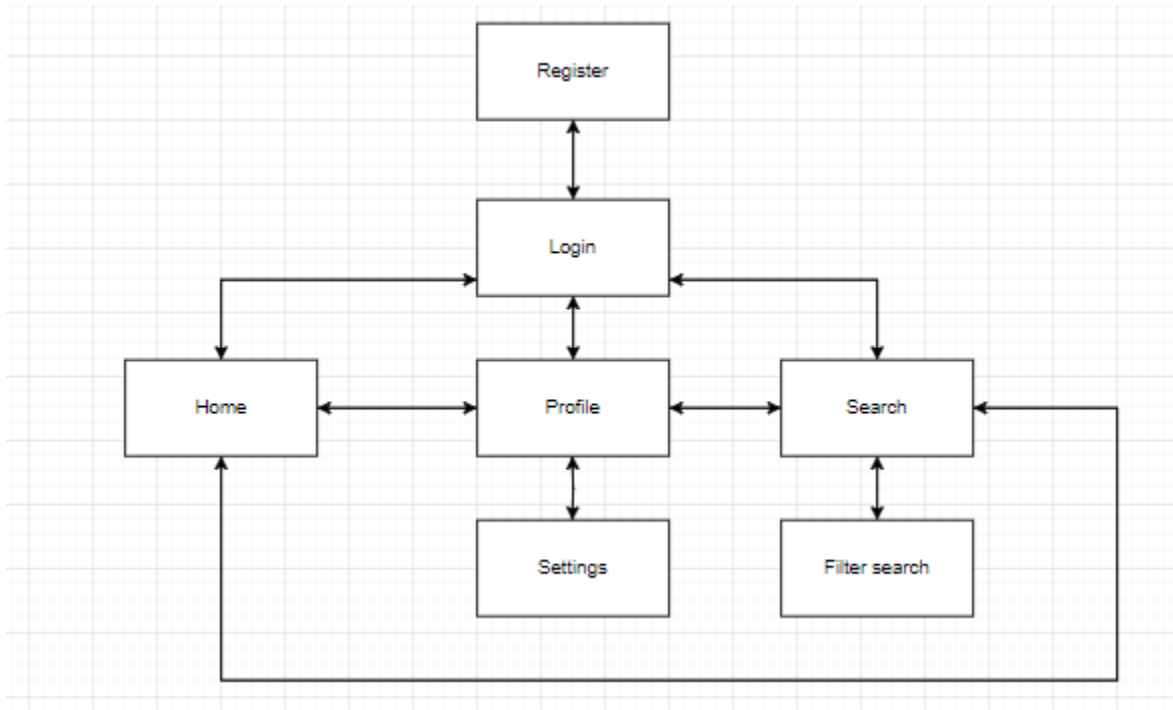
## Logical System Design

The logical system design demonstrates how data and processes in the application flow through different phases of the application. In this application, the user process will begin from the presentation layer using React and React Native, with processes completed through the business layer and data layer utilizing the REST API built in Django and connected to a MySQL database. The diagram is listed below.



## User Interface Design

The user interface design for this application includes a sitemap and low-fidelity wireframes. The sitemap can be found below, and the wireframes can be found in the Word Document attached with the assignment submission.



Wireframes:

See (Low Fidelity Wireframes - CST-451 attachment in assignment submission)

## Reports Design