

# Livrabil Inginerie Software

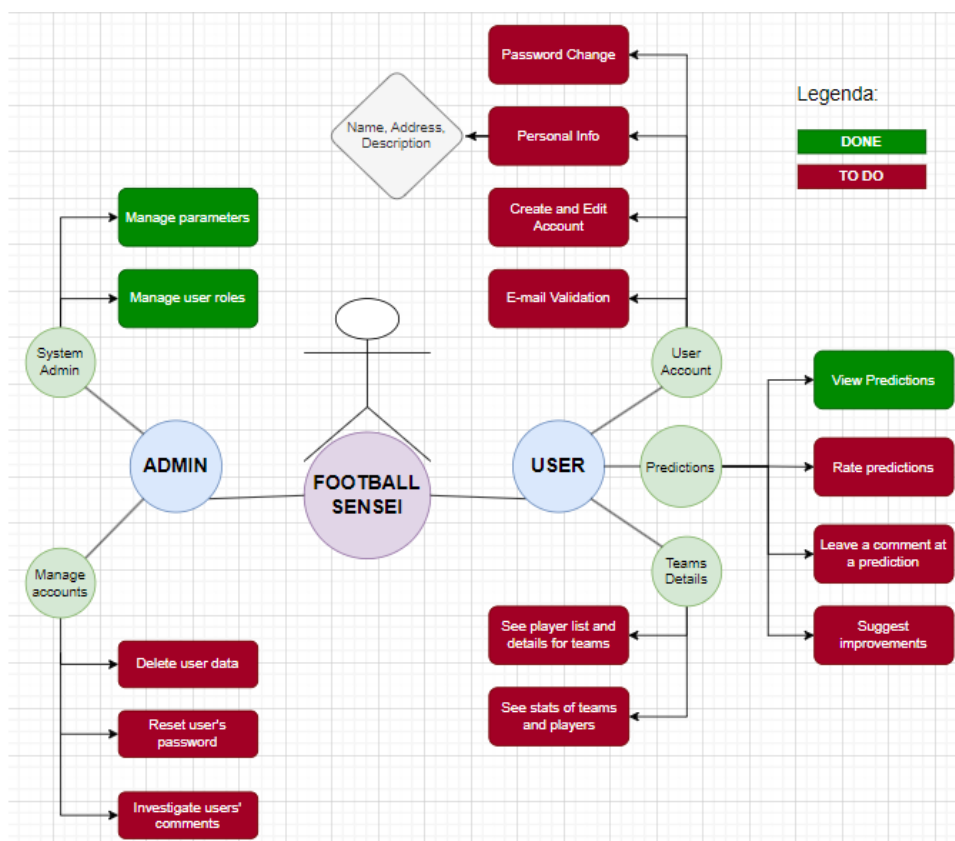
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## 1. Problem Statement/Product Vision

Our product, Football-Sensei, is a web application and is meant to help create a prediction on the outcome of both future and past football matches from the Premier League. The purpose of the web app is to offer our users a possible outlook on the games of their favourite teams.

Our main target user base consists of private persons, specifically football fans and analysts, but we would like to become an option even for football clubs to view the overall feeling about their team or to review the expectations that people have for them. We measure the success with our model's accuracy.

## 2. Product Features and Functionalities



### 3. Non-Functional Requirements

- a) Performance Requirement: The system must respond to user inputs within 3 seconds, even under peak load conditions, as measured by performance testing.
- b) Reliability Requirement: The system should be opened and live all time, but the administrators should announce with hours before if the platform will be down.
- c) Security Requirement: The system must implement two-factor authentication, e-mail verification and use encryption protocols to ensure data confidentiality. The login system should withstand brute force attacks, with a maximum of 3 unsuccessful login attempts allowed within a 5-minute period.
- d) Usability Requirement: The system must comply with WCAG 2.1 accessibility standards, and the user interface should be designed with a usability score of at least 80% based on user testing feedback.

### 4. Customer Journey and User Personas

	Casual Football Fan	Analytical Sports Enthusiast
Age	25	28
Gender	Male	Female
Location	Manchester, UK	London, UK
Occupation	Plumber	Data Analyst
Education Level	Professional school	Master's in Data Science
Income Level	Moderate	High
Personality Traits	Moderately extroverted, Optimistic, Modern	Introverted, Realistic, Modern with a lean towards data-driven approaches
Primary Goal	To enjoy watching football matches	To make accurate predictions based on data analysis
Secondary Goals	Socializing with friends around football	Engaging in intellectual discussions about football, from a probabilistics/statistics standpoint
Motivations	Passion for football, sense of belonging, entertainment	Enjoying football since childhood, passion for data and analytics
Primary Challenge	Limited knowledge of detailed football statistics and analytics	Finding a platform that offers deep, accurate data analysis
Secondary Challenges	Balancing football interest with a busy life	Limited time to conduct personal analysis
Frustrations	Overwhelming amount of data on professional platforms	Over-simplified or inaccurate prediction tools

<b>Purchasing Behavior</b>	Impulse buyer, influenced by simplicity and social proof	Research-driven, looks for value and efficiency
<b>Technology Usage</b>	High, mostly social media and entertainment apps	Very high, focused on analytical tools
<b>Hobbies/Interests</b>	Watching sports, social events, travel, could be into sport betting or not	Watching sports, reading, coding
<b>Preferred Media</b>	Social media, sports blogs	Scientific journals, sports analytics websites
<b>Social Media Platforms</b>	Facebook, Instagram, Twitter	LinkedIn, Twitter
<b>Influencers/People of Trust</b>	Popular sports commentators, friends	Sports scientists, data analysts
<b>Current Usage</b>	Occasional, mostly during big matches	Regular, especially for in-depth analysis
<b>Preferences</b>	User-friendly interface that is easy to navigate, quick and simple predictions	Detailed statistical data, customizable analysis tools
<b>Interaction with Platform</b>	Uses the platform for quick match predictions and discussing with friends	Uses the platform for advanced match predictions and data exploration

#### 5. A set of User Stories

- As a user, I want to be able to rate the output of the model, in order to help improve the application.
- As a user, I want to be able to see the predictions of future matches from the English Premier League, in order to form a perspective upon football's landscape.
- As a user, I want to be able to leave a comment on the predictions, in order to tell other users what I think about the results.
- As a user, I want to be able to suggest improvements, in order to help improve the application.
- As a user, I want to be able to see the player list and details for teams, in order to better analyse the results.
- As a user, I want to be able to see the stats of teams and players, in order to better analyse the results.
- As a user, I want to be able to change my password, in order to get it back in case I forget it or I want to have better security.
- As a user, I want to be able to add and view my personal information, in order to see details about my preferences.
- As a user, I want to be able to create and edit an account, in order to have a personalised experience using the application.
- As a user, I want to be able to validate my email, in order to have a more secure experience.
- As an admin, I want to be able to delete user data, in order to get rid of inactive/harmful users.

- **As an admin, I want to be able to reset the password of a user, in order to help them get it back.**
- **As an admin, I want to be able to investigate user comments, in order to prevent harmful behaviour.**
- **As an admin, I want to be able to manage parameters, in order to get a better understanding of the application's statistics.**
- **As an admin, I want to be able to manage user roles, in order to give advanced permissions to trusted users.**

## **6. Prioritized Product Backlog**

**- As a user, I want to be able to create and edit an account, in order to have a personalized experience using the application.**

- This is a fundamental feature that allows users to interact with the application. It should be prioritized early.

**- As a user, I want to be able to validate my email, in order to have a more secure experience.**

- Email validation is essential for security. It should be implemented early to ensure a secure user experience.

**- As a user, I want to be able to change my password, in order to get it back in case I forget it or I want to have better security.**

- Password management is a crucial aspect of user account features.

**- As a user, I want to be able to add and view my personal information, in order to see details about my preferences.**

- User profile management is essential for providing a personalized experience.

**-As an admin, I want to be able to delete user data, in order to get rid of inactive/harmful users.**

- Admin functionalities related to user data management are important for security.

**-As an admin, I want to be able to reset the password of a user, in order to help them get it back.**

- Admin functionality related to user account management.