3. Requirements Gathering – MatchMind Project

Stakeholder Analysis:

Stakeholder	Role	Needs & Expectations
Football Fans (Users)	Primary users of the platform	 - Access real-time or post-match updates. - Engage in the prediction game. - View league tables and match results. - Create and manage user accounts.
Admin & Content Managers	Manage website content and updates	 Ability to update match scores manually. Manage user-generated content. Moderate discussions and user interactions.
Developers	Build and maintain the platform	 Clear functional requirements and scope. Scalable backend and database. Secure authentication and API integrations.
Project Sponsor / Investors	Fund the project	 High user engagement and traffic. Monetization opportunities(ads, premium features).

User Stories & Use Cases:

User Stories:

As a football fan, I want to:

- View live or post-match scores so I can stay updated on my favorite teams.
- Participate in match predictions to earn points and compete with other fans.
- Create an account and track my prediction history.
- Browse league standings to see my team's ranking.
- Receive notifications or alerts for upcoming matches.

As an admin, I want to:

- Manually update match scores after games end.
- Approve or moderate user-generated content (e.g., comments, discussions).
- View website analytics to track user engagement.

Use Cases:

Use Case 1: User Registers an Account

Use Case	User Registers an Account
Actor	Football Fan (New User)
Precondition	User does not have an existing account.
<u>Steps</u>	 User clicks on "Sign Up". User enters name, email, and password. System validates input and stores user data securely. System sends a confirmation email. User clicks the confirmation link to activate the account.
Postcondition	The user can now log in and access their account.

Use Case	User Registers an Account
<u>Exceptions</u>	If the email is already registered, the system shows an error message.

Use Case 2: User Logs In

Use Case	User Logs In
Actor	Registered User
Precondition	User has an active account.
<u>Steps</u>	 User enters email and password. System verifies credentials. If correct, user is redirected to the dashboard.
Postcondition	User gains access to personalized features.
Exceptions	If login fails, the system displays an error message.

Use Case 3: User Predicts a Match Score

Use Case	User Predicts a Match Score
<u>Actor</u>	Registered User (Football Fan)
<u>Precondition</u>	User is logged in and the match is open for predictions.
<u>Steps</u>	 User selects an upcoming match. User enters a score prediction. System saves the prediction. After the match, system compares actual score and awards points if correct.
Postconditio n	Points are updated in the user's account.

Use Case	User Predicts a Match Score
	If the user tries to predict after match start, the system denies the action.

Use Case 4: User Views Match Scores & League Standings

Use Case	User Views Match Scores & Standings
Actor	Any visitor (Guest or Registered User)
Precondition	Match data is available in the system.
<u>Steps</u>	 User navigates to the "Scores" or "Standings" page. System retrieves the latest match results and league table. User sees updated match scores and team rankings.
Postcondition	User stays informed about football results.
Exceptions	If match data is unavailable, system shows a "Coming Soon" message.

Use Case 5: Admin Updates Match Scores Manually

Use Case	Admin Updates Match Scores Manually
Actor	Admin
Precondition	The match has ended, and the final score is available.
<u>Steps</u>	 Admin logs into the dashboard. Admin selects the match that needs updating. Admin enters the final score. System saves the updated score and refreshes the standings.
Postcondition	Match results are updated on the website.

Use Case	Admin Updates Match Scores Manually
<u>Exceptions</u>	If the score is entered incorrectly, the admin can edit it later.

Use Case 6: User Views Leaderboard & Prediction Rankings

Use Case	User Views Leaderboard
Actor	Registered User
Precondition	Prediction game has been running with recorded user scores.
<u>Steps</u>	 User navigates to the "Leaderboard" page. System retrieves the top users based on prediction accuracy. User sees rankings, including their own position.
Postcondition	Users can compare scores and compete with others.
Exceptions	If no predictions have been made yet, system displays "No data available".

Use Case 7: User Receives Match Alerts & Notifications

Use Case	User Receives Match Alerts
Actor	Registered User
Precondition	User has enabled notifications.
<u>Steps</u>	 System detects an upcoming match. System sends a notification (email, SMS, or in-app alert). User receives the alert about the match.
Postcondition	Users stay informed about their favorite teams.

Use Case	User Receives Match Alerts
Exceptions	If notifications are disabled, no alerts are sent.

Use Case 8: Admin Manages User Accounts

Use Case	Admin Manages User Accounts
Actor	Admin
<u>Precondition</u>	There are active users on the platform.
<u>Steps</u>	 Admin logs into the dashboard. Admin searches for a user. Admin can edit, suspend, or delete the user account.
Postcondition	User data is updated accordingly.
Exceptions	If the admin tries to delete an already deleted user, an error message is shown.

Functional Requirements:

User Management

- Users can create, update, and delete their accounts.
- Authentication via email or third-party logins.

Football Match Data

- Users can view match schedules, results, and league standings.
- Admins can manually update scores if live data is unavailable.

Prediction Game

- Users can predict match scores before kickoff.
- The system calculates points based on correct predictions.
- Leaderboards display top users with the highest scores.

Notifications & Alerts

• Users can opt-in for notifications about match results, upcoming games, and leaderboard updates.

Admin Dashboard

• Admins can update scores, manage user accounts, and moderate content.

Non-Functional Requirements:

Performance

- The system should load match data in under 2 seconds.
- The database must handle at least 10,000 users simultaneously.

Security

- Users' personal data must be encrypted.
- Secure authentication via OAuth or JWT tokens.

Usability

- The website must be mobile-friendly and responsive.
- The prediction system should be intuitive for new users.

Reliability & Availability

- The system should have 99.9% uptime for smooth access.
- In case of API failures, the system should fallback to manual score updates.