

## REQUIREMENT GATHERING

Date: [01-08-2024]

### 1. Project Overview:

- The Athlete Arena (Sports Team Management) project is designed to streamline and enhance the management and communication processes within a sports team environment. It aims to revolutionize team management by providing a comprehensive platform for administrators, coaches, players, parents, medical staff, sports psychologists, and analytics experts. The main objectives are to ensure efficient coordination, performance tracking, and engagement within the sports team community.

### 2. System Scope:

- The system is proposed for full-scale implementation. It is not just a prototype or for research purposes but is intended to be a fully functional platform that can be used by sports teams of various sizes and levels.

### 3. Target Audience:

- The target audience includes administrators, coaches, players, parents, medical staff, sports psychologists, and analytics experts. Each group will interact with the system in different capacities based on their roles.

### 4. Modules:

- **Admin Module:**
  - Manage Teams: Create, edit, and delete teams. Assign coaches and players to teams.
  - Manage Players: Add new players, update player information, manage player rosters.
  - Manage Schedules: Create and update practice schedules, game schedules, and events.
  - Manage Statistics: Track and analyse team and player statistics for performance evaluation and improvement.
- **Coach Module:**
  - Plan Practices: Create practice plans, set goals, and schedule drills.
  - Track Player Performance: Monitor player statistics, performance trends, and progress over time.
  - Communicate with Players: Send messages, announcements, and individual feedback to players.
  - View Schedules: Access team schedules, game details, and upcoming events.
- **Player Module:**
  - View Schedules: Access practice schedules, game schedules, and team events.
  - Log Workouts: Record personal workouts and training sessions.
  - Track Personal Stats: Monitor individual performance metrics and statistics.

- Receive Updates: Stay informed about team announcements, practice changes, and game results.
- **Parent Module:**
  - Follow Child's Progress: Monitor their child's participation, performance, and improvement.
  - Receive Team Updates: Get notifications about team schedules, events, and announcements.
  - Communicate with Coaches: Contact coaches directly, receive feedback on their child's performance.
- **Medical Staff Module:**
  - Injury Tracking: Records and monitors player injuries and recovery progress.
  - Health Records: Maintains medical histories and relevant health information of players.
  - Communication: Collaborates with coaches and players on injury management and prevention strategies.
- **Sports Psychologist Module:**
  - Mental Performance Assessment: Evaluates and tracks mental skills and resilience of players.
  - Psychological Support: Provides counselling and mental training sessions for players.
  - Communication: Collaborates with coaches to enhance player motivation, focus, and performance.
- **Analytics Expert Module:**
  - Statistical Analysis: Analyses team and player statistics to identify strengths and areas for improvement.
  - Performance Metrics: Develops customized metrics and benchmarks for player development.
  - Communication: Collaborates with coaches to optimize training strategies based on data-driven insights.

## 5. User Roles:

- **Admin:** Full access to all system functionalities including team management, player management, schedule management, and statistics tracking.
- **Coach:** Access to practice planning, player performance tracking, team communication, and schedule viewing.
- **Player:** Access to personal and team schedules, workout logging, personal stats tracking, and receiving updates.
- **Parent:** Access to child's progress tracking, team updates, and communication with coaches.

- **Medical Staff:** Access to injury tracking, health records management, and communication with coaches and players.
- **Sports Psychologist:** Access to mental performance assessment, psychological support, and communication with coaches.
- **Analytics Expert:** Access to statistical analysis, performance metrics development, and communication with coaches.

#### **6. System Ownership:**

- The system is owned by Anoop R Nair, under the academic supervision of Ms. Nimmy Francis, Assistant Professor, Department of Computer Applications.

#### **7. Industry/Domain:**

- The system is related to the sports industry, specifically focusing on sports team management.

#### **8. Questionnaire for Data Collection:**

1. What are the primary challenges you face in managing a sports team?
2. How do you currently track and analyse player performance?
3. What tools do you use for scheduling practices and games?
4. How do you communicate with players, parents, and other stakeholders?
5. What features would you find most useful in a sports team management app?
6. How do you manage player injuries and health records?
7. What kind of psychological support do you provide to players?
8. How do you currently involve parents in their child's sports activities?
9. What statistical metrics do you use to evaluate team and player performance?
10. How do you ensure data security and privacy within your team management system?