



Project Name: ScoreZone (Football Tournament Manager)
Branch PG-DAC Sept-2022

Documentation On

“ScoreZone (Football Tournament Manager)”
PG-DAC SEPT 2022

Guided By: Bakul Joshi

Submitted By:
Group No: 05

- | | |
|-------------------|--------------|
| • Parth Patil | 220943020062 |
| • Shantanu Patil | 220943020066 |
| • Soham Ghatpande | 220943020100 |

Table of Contents

1. Introduction	4
1.1 Document Purpose	4
1.2 Project Background.....	4
1.3 Aim & Objectives	4
2. Business Requirements Overview.....	5
3. Functional Requirements.....	6
3.1 Admin Module.....	6
3.2 Tournament Manager Module	6
3.3 Team Manager Module.....	7
3.4 Match Updater Module.....	7
3.5 Viewer Module	7
4.Non-Functional Requirement.....	8
5. Use Case Diagram.....	8
5.1 Admin	9
5.2 Tournament Manager.....	10
5.3 Team Manager	11
5.4 Match Updater	12
5.5 Viewer.....	13
6. Database Design.....	14
6.1 Users	14
6.2 Tournaments	14
6.3 Teams.....	15
6.4 Matches.....	15
6.5 Players.....	15
6.6 User Types	16
6.7 Tournament Teams	16
6.8 Match Updater Tournament.....	16
6.9 User Types	16
6.10 Tournament Teams	16
6.11 Match Updater Tournament.....	16

7. E-R Diagram.....	17
8. Snapshots.....	18
9. Conclusion	28

List of Figures

Use Case Diagrams	
Fig 1 Admin.....	9
Fig 2 Student.....	10
Fig 3 Teacher	11
Fig 4 Match Updater.....	12
Fig 5 Viewer.....	13
Fig 4 ER Diagram	17

1. Introduction:

1.1 Document Purpose:

This document communicates the business requirements and scope for developing **Score Zone**. The scope of this document is to define the functional and nonfunctional requirements, business rules, and other constraints.

1.2 Project Background:

Currently, many football teams in many cities of India play tournaments organized by various organizers. These organizers do not have a proper and efficient way of managing these tournaments. Many talented people do not receive the recognition they deserve because tournament organizers lack the resources to keep track of the results.

Instead of having the benefits of a digital world where they can manage all of their data digitally, these organizers have to do a lot of paperwork to keep the information related to these tournaments.

1.3 Aim & Objectives:

The main objective of this project is to build a website for these organizers, who belong to various cities, to organize tournaments in their areas by managing tournaments through our web application, and they can also manage and maintain all the data related to these tournaments. This will also allow the viewers to view the live scores, past scores, browse through different tournaments and players. Team Managers also get a platform to represent their teams in various tournaments.

2. Business Requirements Overview:

- Score Zone is a public web application.
- There are mainly 5 types of users:
 1. Admin
 2. Tournament Manager
 3. Match Updater
 4. Team Manager
 5. Viewers
 6. Tournament Organizer (Virtual User)
- Tournament managers creates a tournament on their portal, which will be visible to all the team managers.
- Team managers get data of upcoming tournaments where they can register their teams.
- Tournament managers get the team details submitted by the team managers.
- The tournament manager is in charge of choosing the date and location of the match and generating matches of the registered teams.
- The Match Updater keep the scores up to date for each match and declare the result of the matches.
- An administrator looks after Score Zone.

3. Functional Requirements Overview:

Score Zone consists of five modules, described below

1. Admin Module
2. Tournament Manager Module
3. Match Updater Module
4. Team Manager Module
5. Viewer Module

1. Admin Module

- Admin has all the rights to modify and access all the functions in Score Zone after successful login authentication.
- Authorization of new Tournament Managers and new Team Managers after their registration is complete.
- Adding new venues for different tournaments on proper communication with different Tournament Organizers.
- Report generation of each tournament when completed.

2. Tournament Manager Module

- Tournament Manager requests to create(register) his or her own account.
- To generate tournament by providing necessary details.

Tournament Level Tasks:

- TM generates matches for the teams that are registered in the current tournament.

Match Level Tasks:

- TM sends fixture details like opposition team, date, time and venue to TEM before every match.
- TM will create account for Match Updater.

3. Match Updater Module

- MU is able to update the score of individual matches.
- MU declares the result of every match.
- MU update player performance after every match.

4. Team Manager Module

- TEM requests to create(register) his or her own account.

Tournament Level Tasks:

- To register team details (player information in the form of player name, player position, player age, etc.) in proper file format provided by the TM.
- To participate in the tournament scheduled by the TM.

Match Level Tasks:

- To view the fixtures scheduled by TM and selecting players for that particular fixture.
- To view other team's data in the form of player stats, past results, upcoming matches.

5. Viewer Module

Tournament Level Features:

- To view Team performance
- To view player performance of different teams.
- To view Team Fixtures of all teams participating in tournament.

Match Level Features:

- To view live scores of the ongoing matches.
- Will allow the viewers to predict the winners during live matches.

4. Non-Functional Requirement:

- The website should use professional design, look and feel and color scheme.
- Being a public website, the site must follow general usability guidelines for menus, navigation, colors, links and other actions provided on the screens.
- The system should be designed in such a manner that user will be able to complete tasks in minimum number of steps.

.

5. Use-Case Diagram

5.1 Admin:

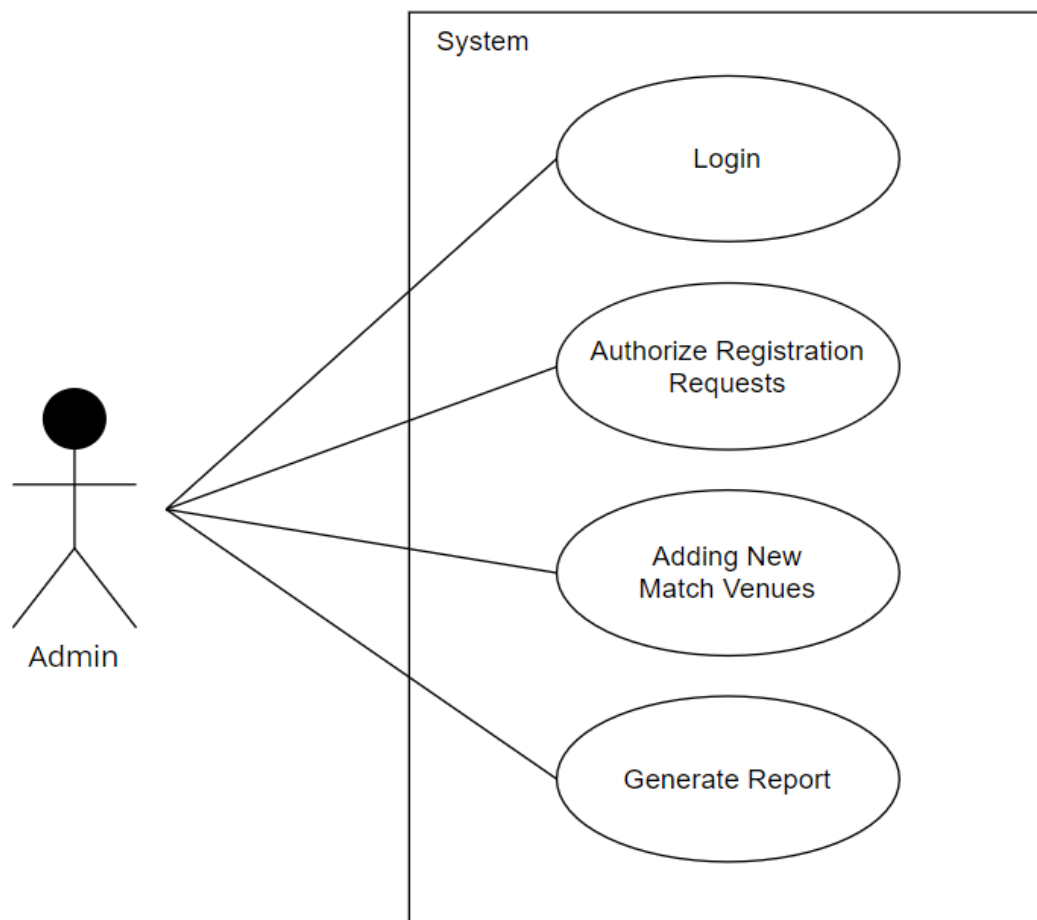


Fig. Use case diagram for admin

5.2 Tournament Manager:

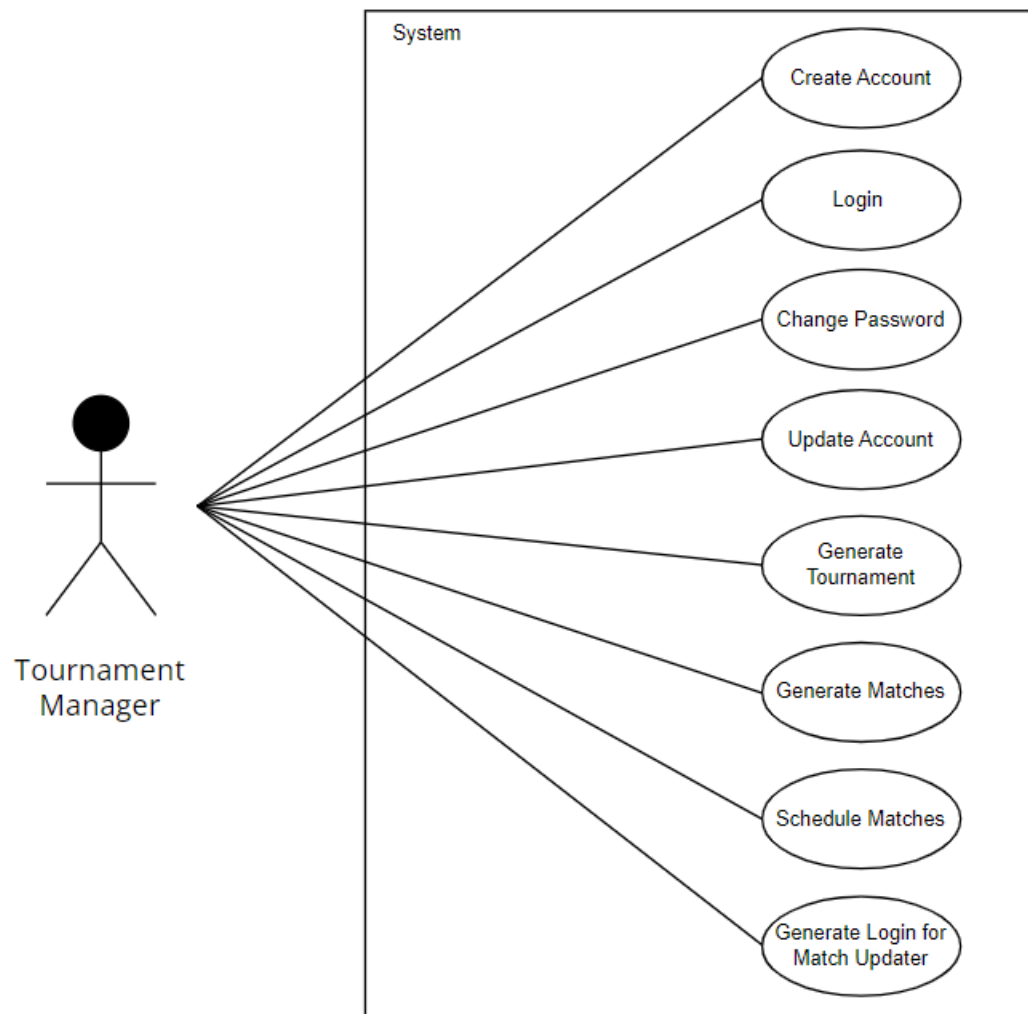


Fig. Use case diagram for Tournament Manager

5.3Team Manager:

Fig. Use case diagram for Team Manager

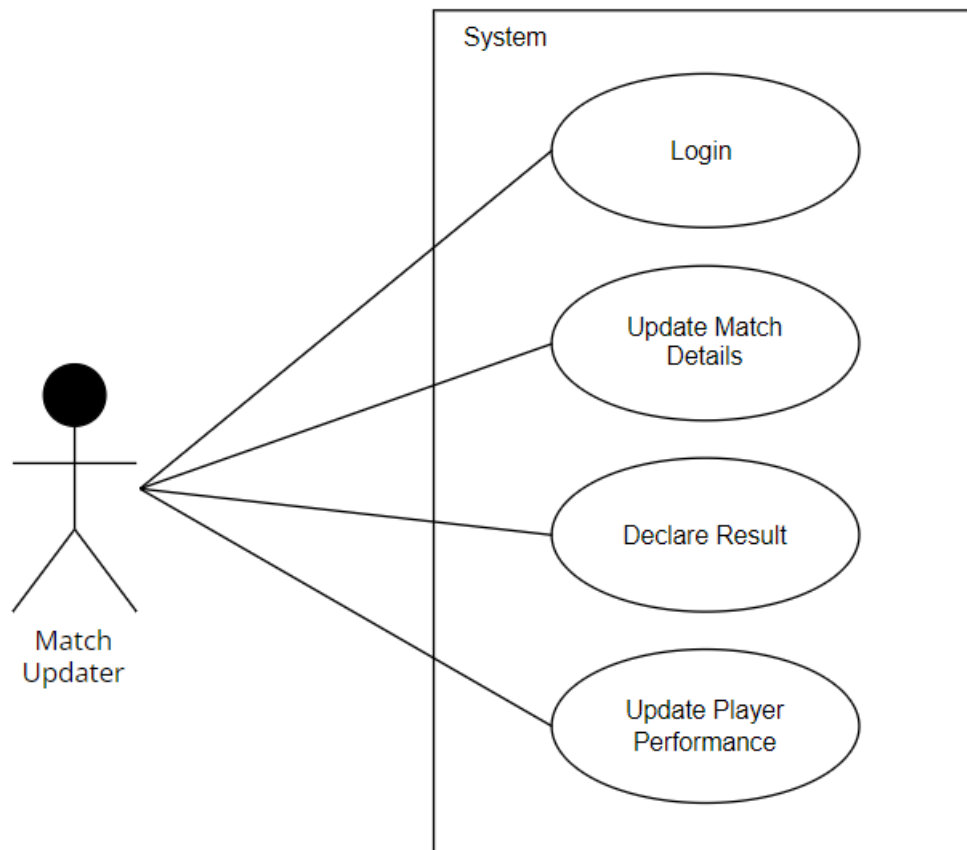
5.4 Match Updater:

Fig. Use case diagram for Match Updater

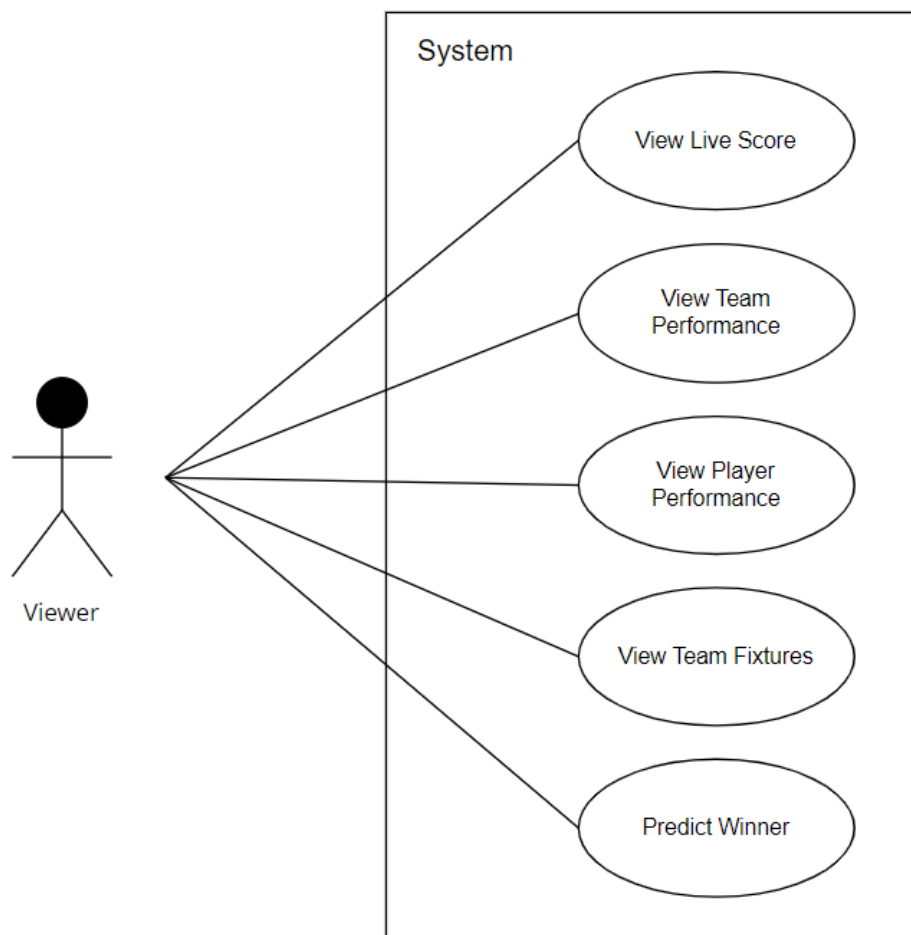
5.5 Viewer:

Fig. Use case diagram for Viewer

6. Database Design:

1] Users Table

Field	Type	Null	Key	Default	Description
UID	Integer	No	PK	AI	User Id
FIRST_NAME	Varchar(45)	No			First Name
LAST_NAME	Varchar(45)	No			Last Name
EMAIL	Varchar(45)	No			Email Id
CONTACT	Varchar(45)	No			Contact No.
USERNAME	Varchar(45)	No			Username
PASSWORD	Varchar(45)	No			Password
TYPE_ID	Integer	No	FK		Role of user
USER_STATUS	Integer				Approved or Not
SECURITY_QID	Integer		FK		Security question Id
Q_ANSWER	Varchar(45)				Security question answer

2] Tournaments Table

Field	Type	Null	Key	Default	Description
TOURNAMENT_ID	Integer	No	PK	AI	Tournament ID
TOURNAMENT_TITLE	Varchar(45)	No			Tournament Title
TOURNAMENT_MANAGER_ID	Integer	No	FK		Tournament Manager Id
START_DATE	Date	No			Start Date
END_DATE	Date	No			End Date
PARTICIPATION_DEADLINE	Date	No			Deadline Date
TOURNAMENT_STATUS	Integer	No			Ongoing or TBD
TOURNAMENT_LOGO	Blob				logo

3] Teams Table

Field	Type	Null	Key	Default	Description
TEAM_ID	Integer	No	PK	AI	Login ID-1
TEAM_NAME	Integer	No		UQ	User ID
TEAM_MANAGER_ID	Integer	No	FK	UQ	Password
REGISTRATION_DATE	Date	No			User Type
TEAM_DESCRIPTION	Varchar(45)				Team Info
TEAM_LOGO1	Varchar(4500)				Logo
TEAM_MATCH-STATUS	Integer				Played or TBP

4] Matches Table

Field	Type	Null	Key	Default	Description
MATCH_ID	Integer	No	PK		Match Id
TOURNAMENT_ID	Integer		FK		Tournament_Id
TEAM_ID_A	Integer		FK		Team A Id
TEAM_ID_B	Integer		FK		Team B Id
TEAM_A_SCORE	Integer				Team A Score
TEAM_B_SCORE	Integer				Team B Score
MATCH_STATUS	Integer				Played or TBP
MATCH_VENUE	Varchar(45)				Venue
MATCH_DATE	DateTime				Match Date
REMARKS	Varchar(45)				Remarks

5] Players Table

Field	Type	Null	Key	Default	Description
PLAYER_ID	Integer	No	PK	AI	Player Id
TEAM_ID	Integer	No	FK		Team Id
FIRST_NAME	Varchar(45)				First Name
LAST_NAME	Varchar(45)				Last_Name
PLAYER_POSITION	Varchar(45)				Playing Position
PLAYER_BIRTHDATE	Date				Birth date
GOALS	Integer				Goals Scored
PLAYER_STATUS	Integer				

6] Tournament_Teams Table

Field	Type	Null	Key	Default	Description
TOURNAMENT_ID	Integer	No	PK		Tournament ID
TEAM_ID	Integer	No	PK		Team Id

7] Tournament_Players Table

Field	Type	Null	Key	Default	Description
PLAYER_ID	Integer	No	PK	AI	Progress Report ID
TOURNAMENT_ID	Integer	No	PK		Comment/Suggestions
TOURNAMENT_GOALS	Integer	No			Student ID

8] Match_Updater_Task Table

Field	Type	Null	Key	Default	Description
MATCH_UPDATER_ID	Integer	No	PK	AI	Match Updater Id
TOURNAMENT_ID	Integer	No			Tournament Id

9] Venues Table

Field	Type	Null	Key	Default	Description
VENUE_ID	Integer	No	PK	AI	Venue Id
VENUE_NAME	Varchar(450)				Venue Name
VENUE_CITY	Varchar(45)				Venue Location

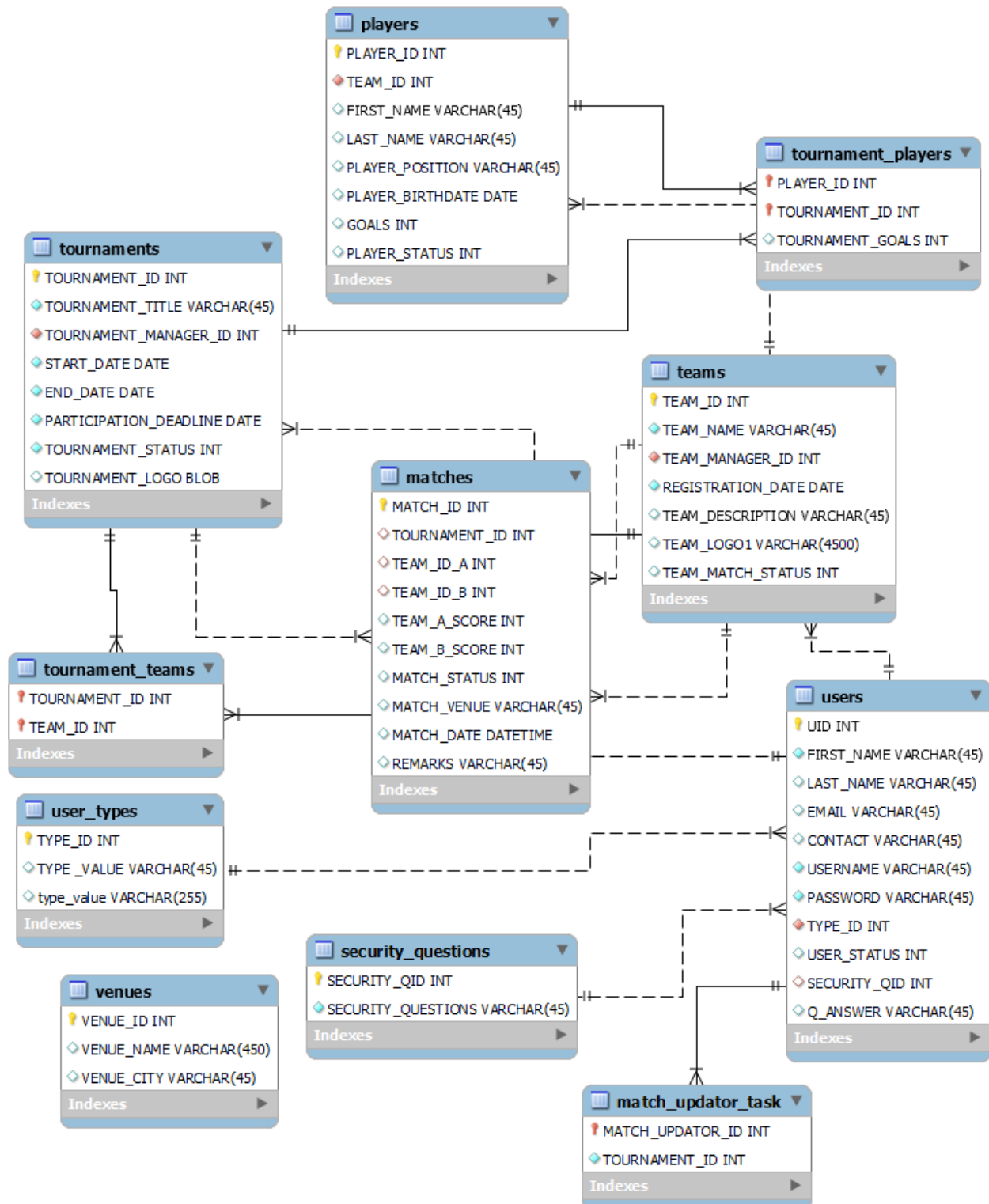
10] User_Types Table

Field	Type	Null	Key	Default	Description
TYPE_ID	Integer	No	PK		Type Id
TYPE_VALUE	Varchar(45)				Type Value

11] Security_Questions Table

Field	Type	Null	Key	Default	Description
SECURITY_QID	Integer	No	PK	AI	Security Qid
SECURITY_QUESTIONS	Varchar(45)	No			Security Questions

7. ER-Diagram:

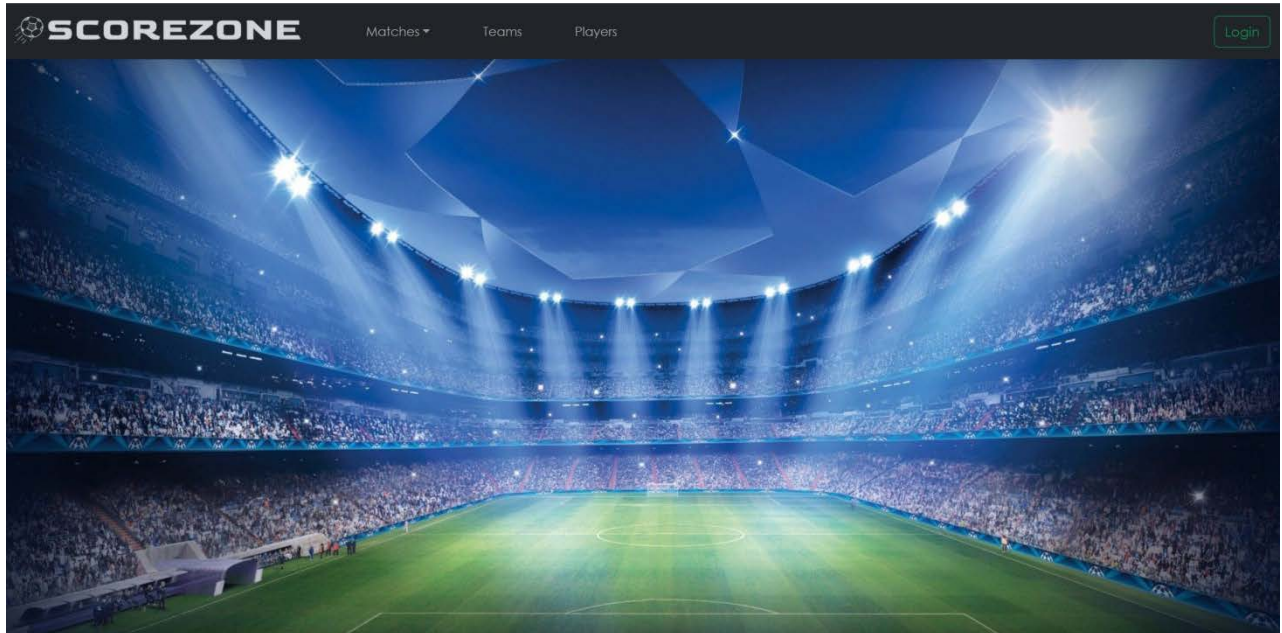


E-R diagram shows database of Score Zone System

8. Snapshots:

8.1 Home Page:

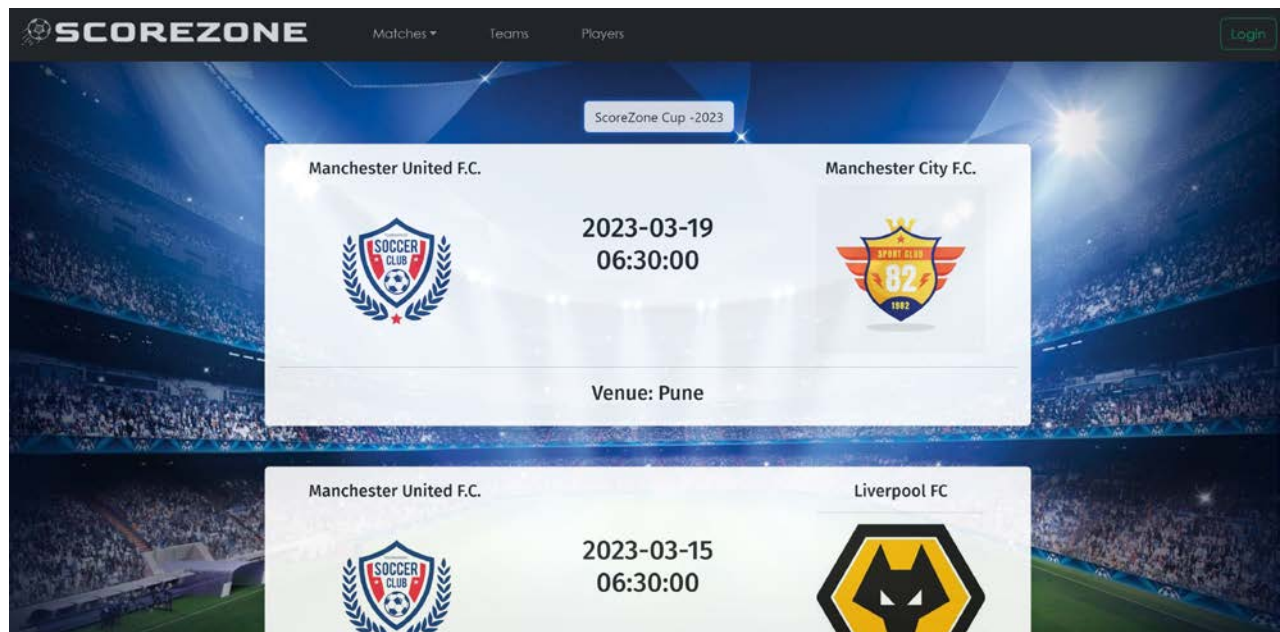
Following snapshot shows the Home page for Score Zone.



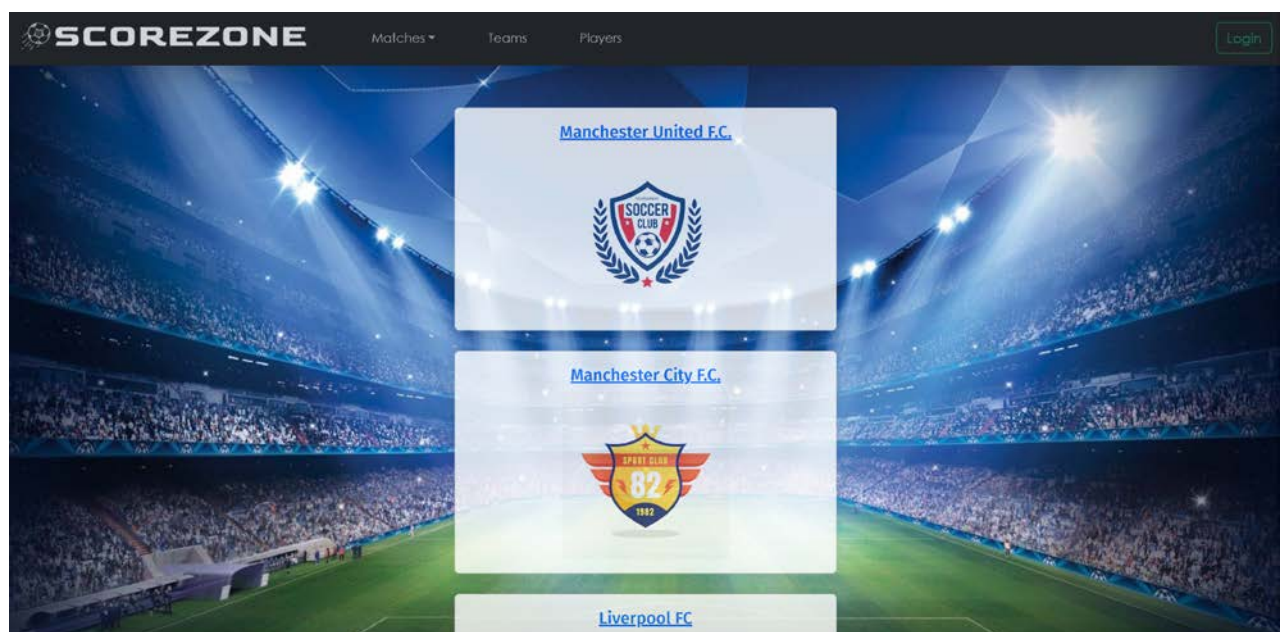
This page contains following controls

- Home
- Matches
- Teams
- Players
- Login Button

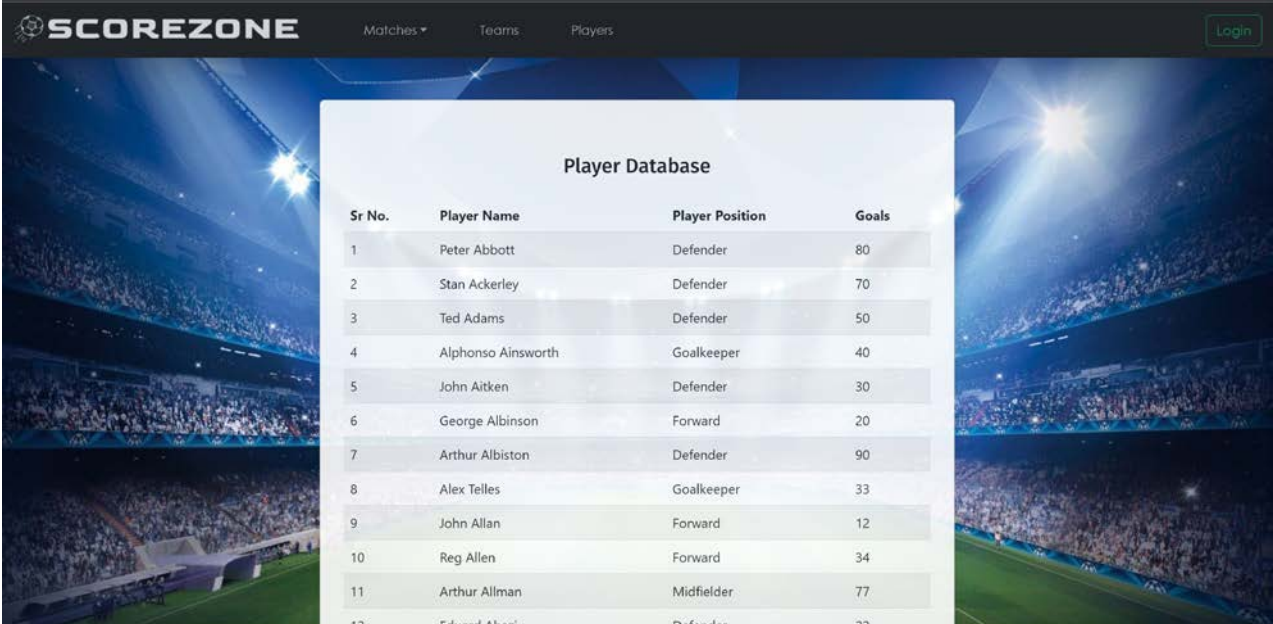
8.2 Matches Page



8.3 Teams Page



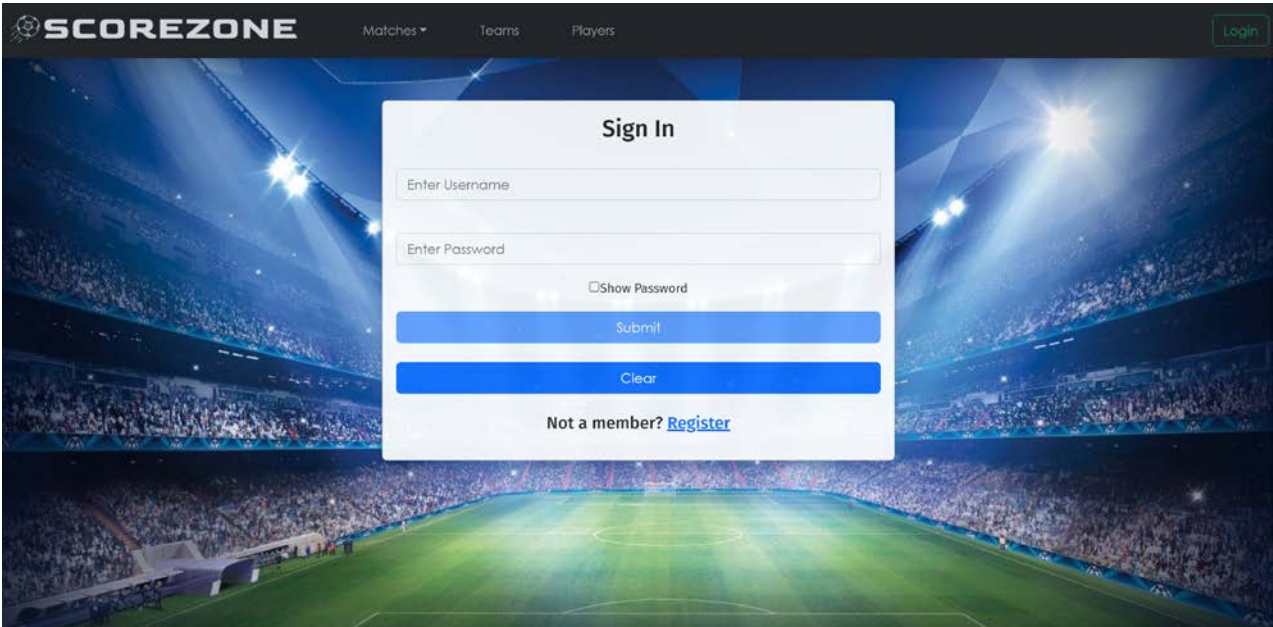
8.4 Players Page



Sr No.	Player Name	Player Position	Goals
1	Peter Abbott	Defender	80
2	Stan Ackerley	Defender	70
3	Ted Adams	Defender	50
4	Alphonso Ainsworth	Goalkeeper	40
5	John Aitken	Defender	30
6	George Albinson	Forward	20
7	Arthur Albiston	Defender	90
8	Alex Telles	Goalkeeper	33
9	John Allan	Forward	12
10	Reg Allen	Forward	34
11	Arthur Allman	Midfielder	77
12	Edward Alvari	Defender	22

8.5 Login Page

Following snapshot shows the Login page for Score Zone.



Sign In

Enter Username

Enter Password

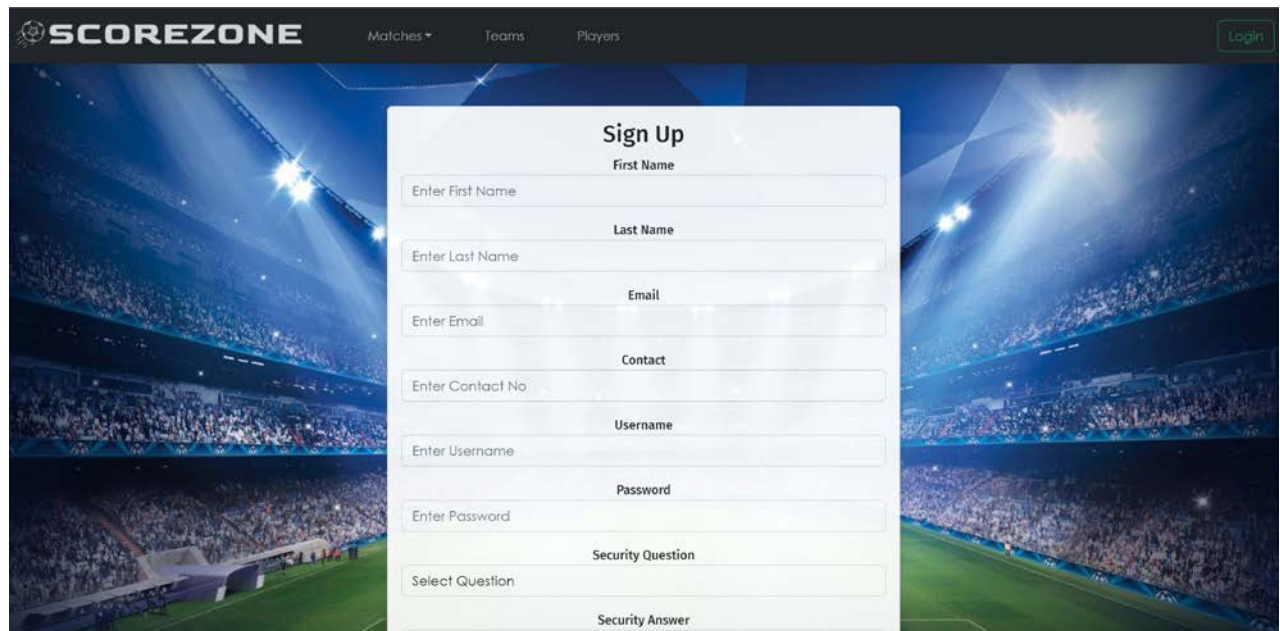
☐ Show Password

Submit

Clear

Not a member? [Register](#)

8.6 Register Page

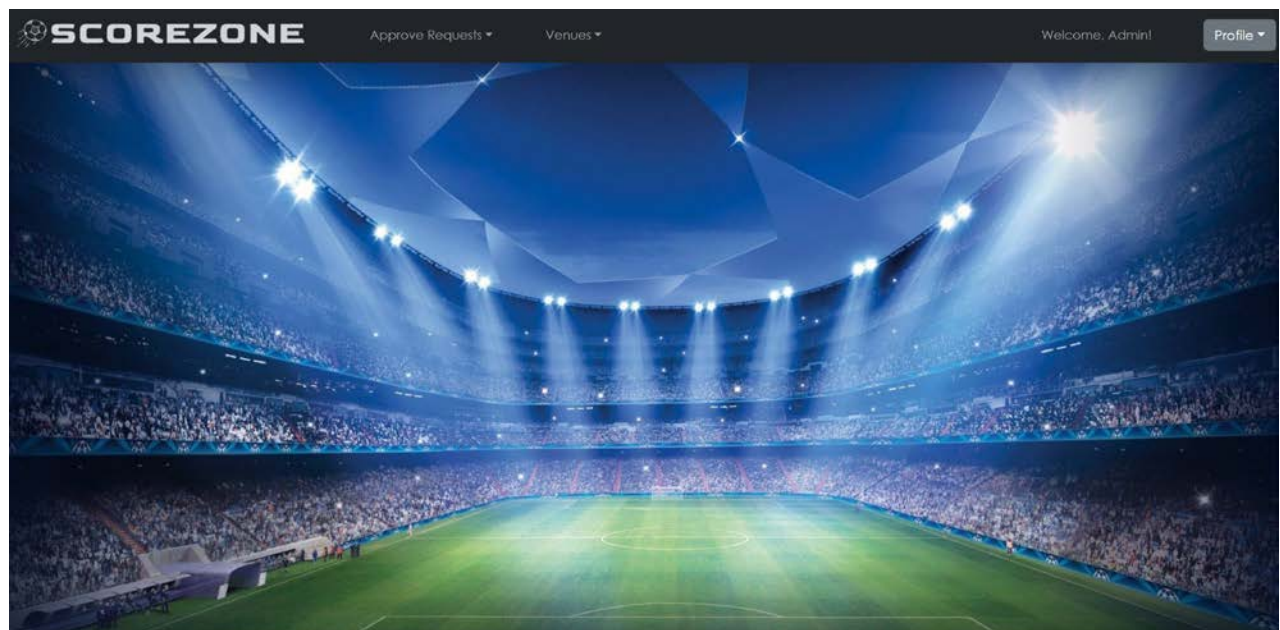


The screenshot shows the 'Sign Up' form on the ScoreZone website. The background is a large image of a football stadium at night with bright lights. The form is centered and has a white background. It includes the following fields:

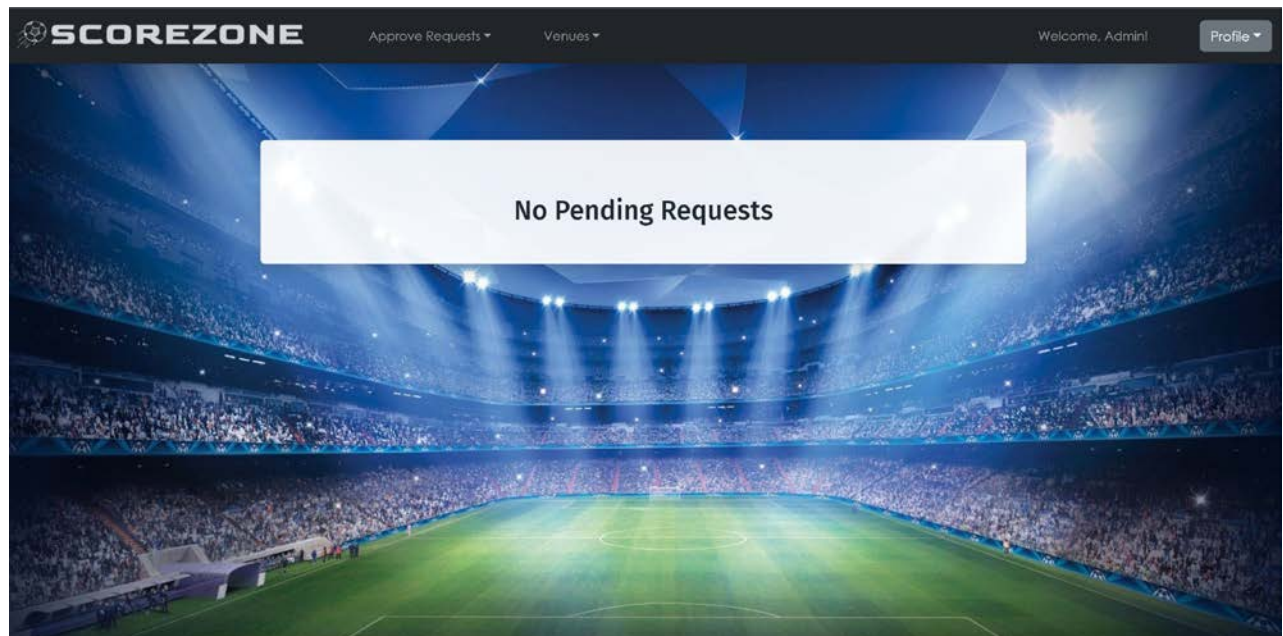
- First Name**: Enter First Name
- Last Name**: Enter Last Name
- Email**: Enter Email
- Contact**: Enter Contact No.
- Username**: Enter Username
- Password**: Enter Password
- Security Question**: Select Question
- Security Answer**: (Empty field)

The form is titled 'Sign Up' and has a 'Login' button in the top right corner of the header.

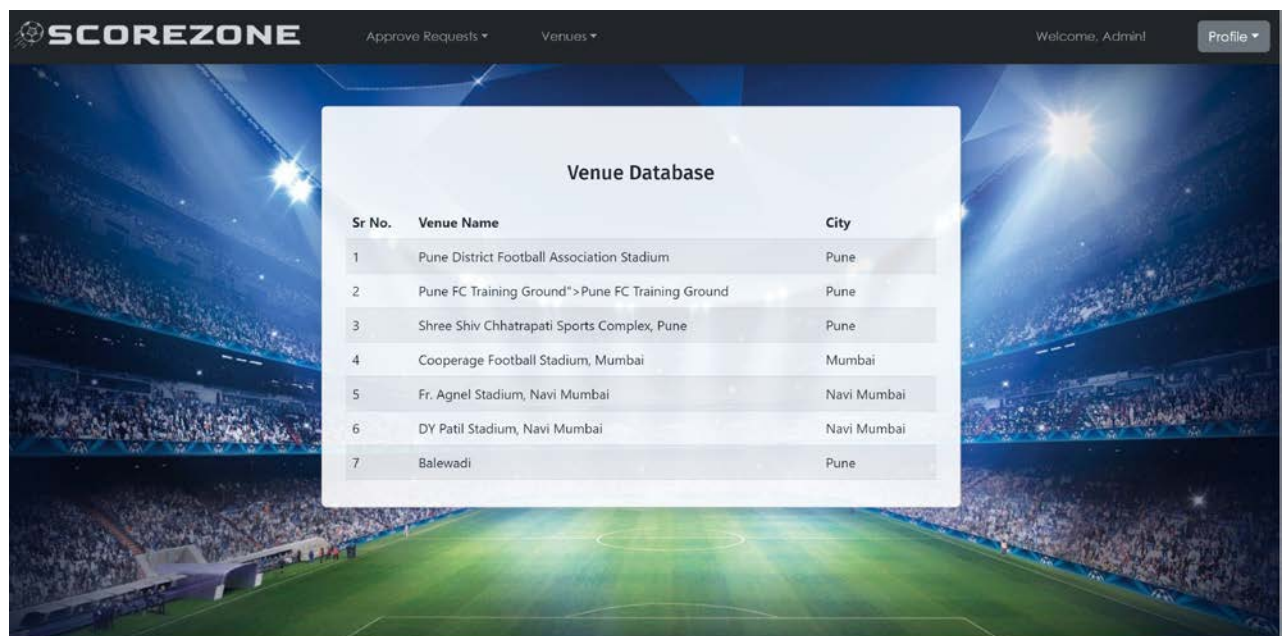
8.7 Admin Home Page



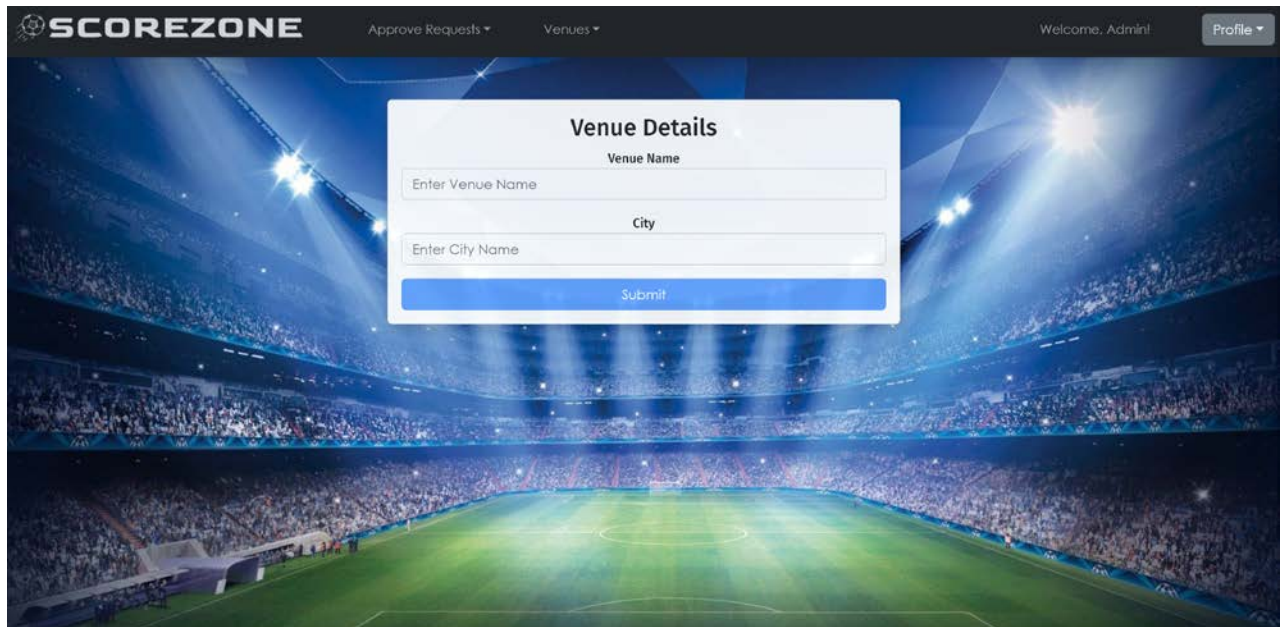
8.7.1 Approval Page



8.7.2 View Venue Page



8.7.3 Add Venue Page



SCOREZONE Approve Requests Venues Welcome, Admin! Profile

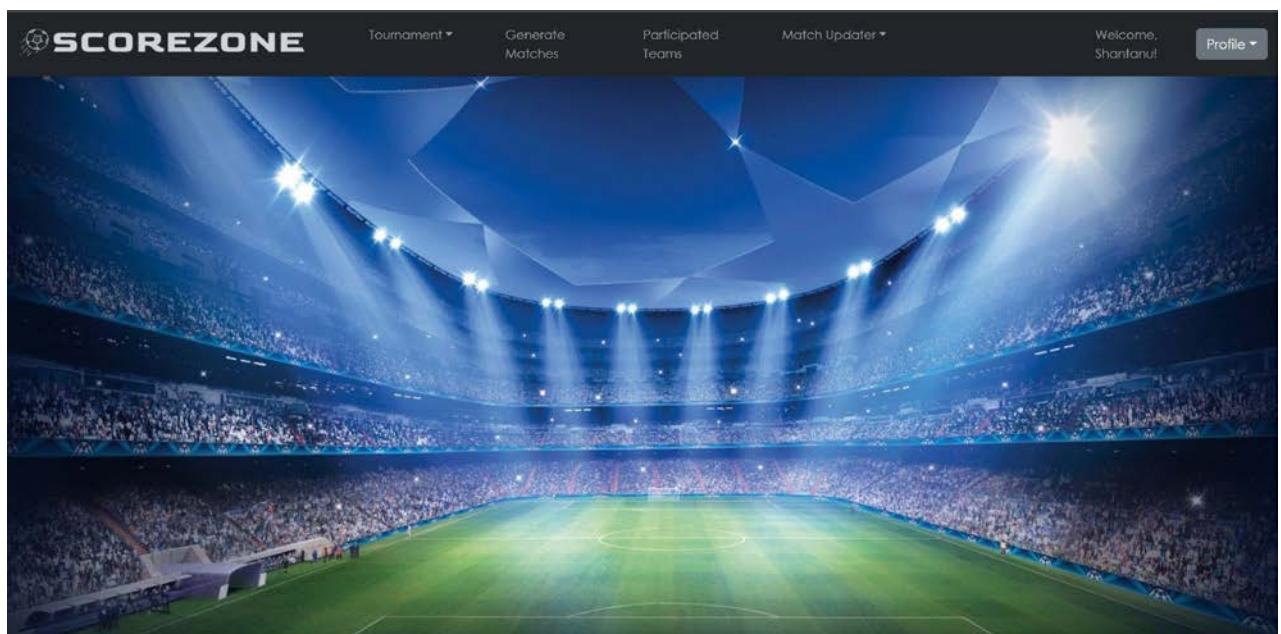
Venue Details

Venue Name

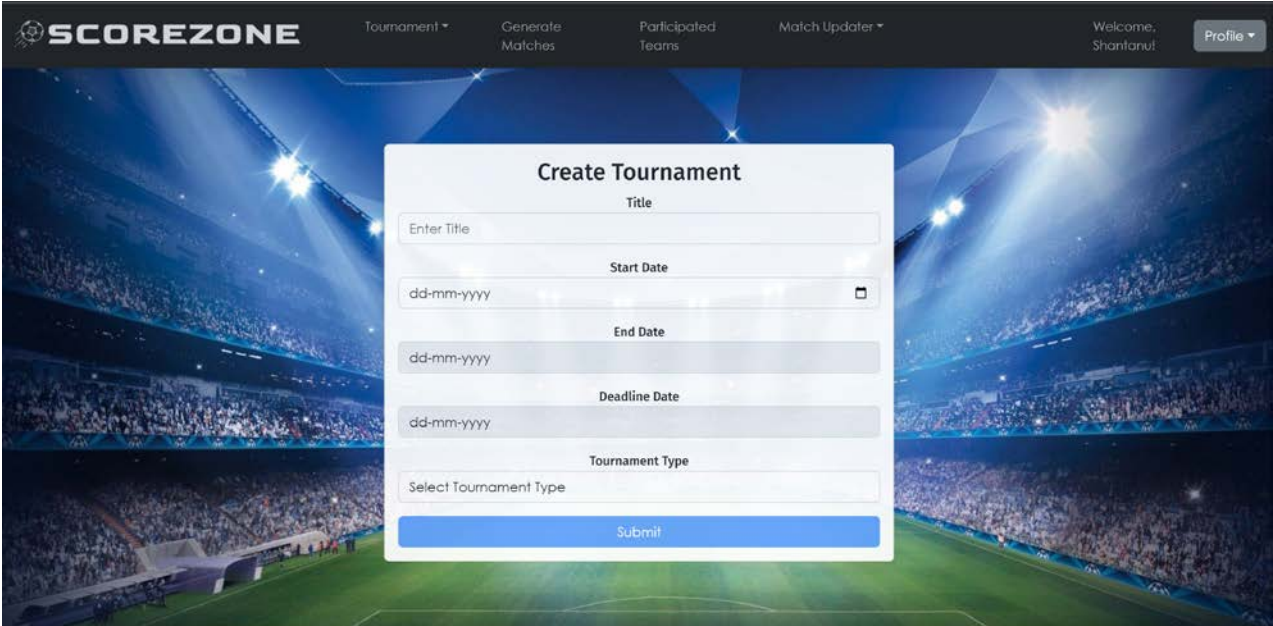
City

Submit

8.8 Tournament Manager Home Page



8.8.1 Create Tournaments Page



SCOREZONE Tournament Generate Matches Participated Teams Match Updater Welcome, Shantanu! Profile

Create Tournament

Title

Enter Title

Start Date

dd-mm-yyyy

End Date

dd-mm-yyyy

Deadline Date

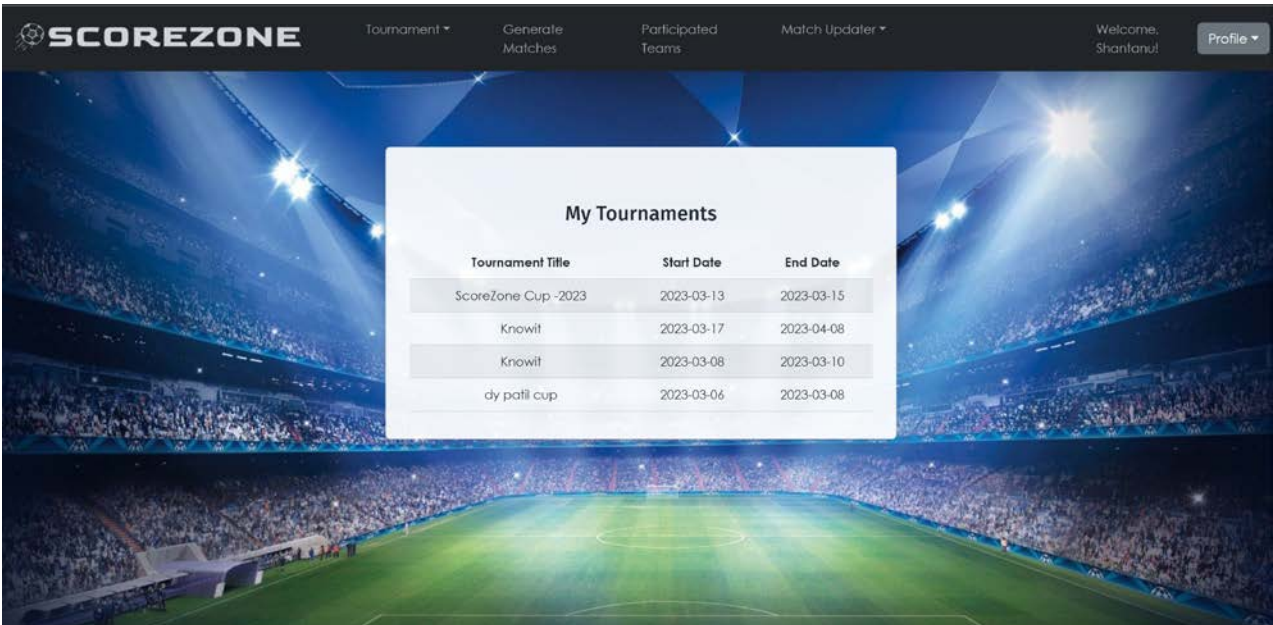
dd-mm-yyyy

Tournament Type

Select Tournament Type

Submit

8.8.2 My Tournaments Page



SCOREZONE Tournament Generate Matches Participated Teams Match Updater Welcome, Shantanu! Profile

My Tournaments

Tournament Title	Start Date	End Date
ScoreZone Cup -2023	2023-03-13	2023-03-15
Knowit	2023-03-17	2023-04-08
Knowit	2023-03-08	2023-03-10
dy patil cup	2023-03-06	2023-03-08

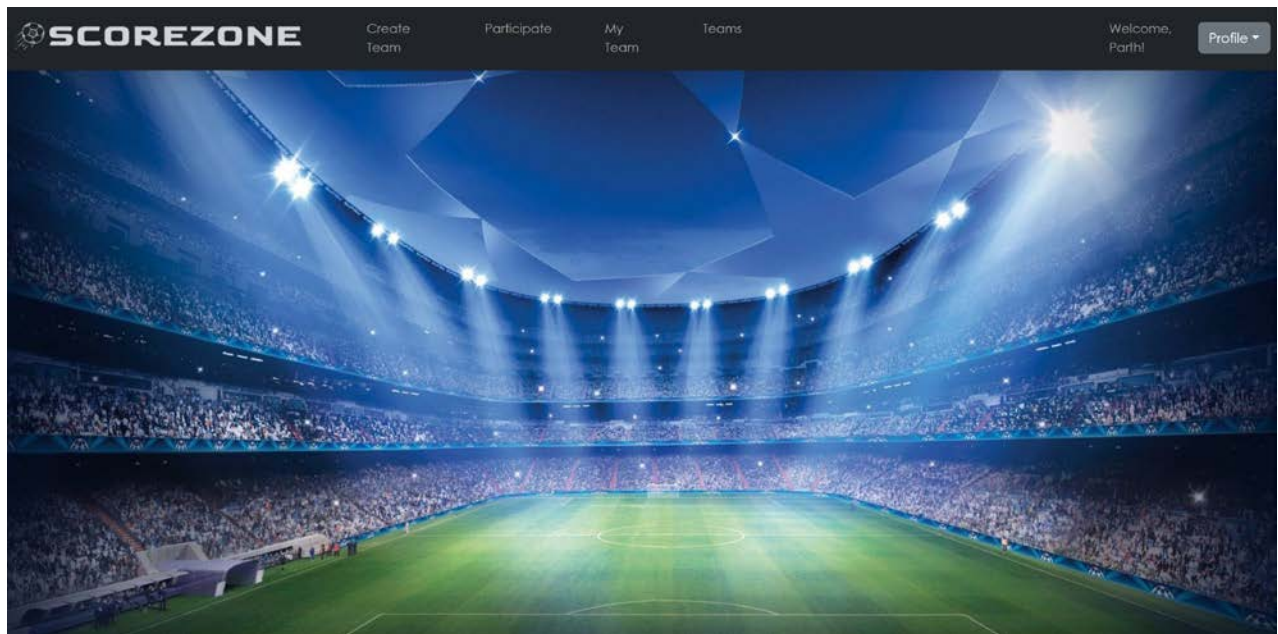
8.8.3 Generate Matches Page

The screenshot shows the 'Generate Match' form in the Score Zone application. The form is centered on a background image of a football stadium at night. The form has a title 'Generate Match' and several input fields for generating a match. The fields are: 'Tournament Name' (with a dropdown menu), 'Team Match Status' (with a dropdown menu), 'Select Team A' (with a dropdown menu), 'Select Team B' (with a dropdown menu), 'Match Venue' (with a dropdown menu), and 'Match Date & Time' (with a date and time picker). A 'Submit' button is at the bottom of the form. The top navigation bar includes the 'SCOREZONE' logo, 'Tournament', 'Generate Matches', 'Participated Teams', 'Match Updater', 'Welcome, Shantanu!', and a 'Profile' button.

8.8.4 Register Match Updater Page

The screenshot shows the 'Match Updater Registration' form in the Score Zone application. The form is centered on a background image of a football stadium at night. The form has a title 'Match Updater Registration' and several input fields for registering a match updater. The fields are: 'First Name' (with a text input field), 'Last Name' (with a text input field), 'Email' (with a text input field), 'Contact' (with a text input field), 'Username' (with a text input field), and 'Password' (with a text input field). A 'Submit' button is at the bottom of the form. The top navigation bar includes the 'SCOREZONE' logo, 'Tournament', 'Generate Matches', 'Participated Teams', 'Match Updater', 'Welcome, Shantanu!', and a 'Profile' button.

8.9 Team Manager Home Page



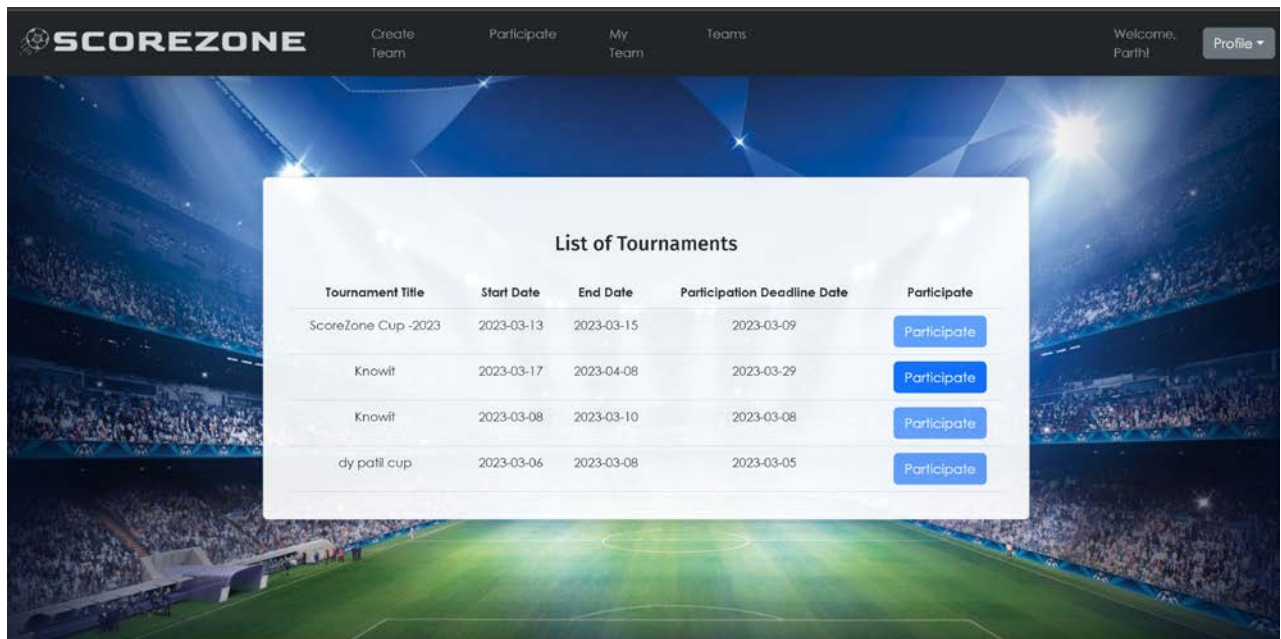
8.9.1 Create Team Page

This screenshot shows the same ScoreZone home page as above, but with a 'Team Registration Form' overlay in the center. The form has a white background and a thin border. It contains the following fields and elements:

- Team Name:** A text input field with the placeholder 'Enter Team Name'.
- Team Description:** A text input field with the placeholder 'Enter Description of your Team / Team History'.
- Team Logo:** A text input field with the placeholder 'Enter URL of Team Logo'.
- Submit:** A blue button with the text 'Submit' in white.

The background of the page remains the same stadium image.

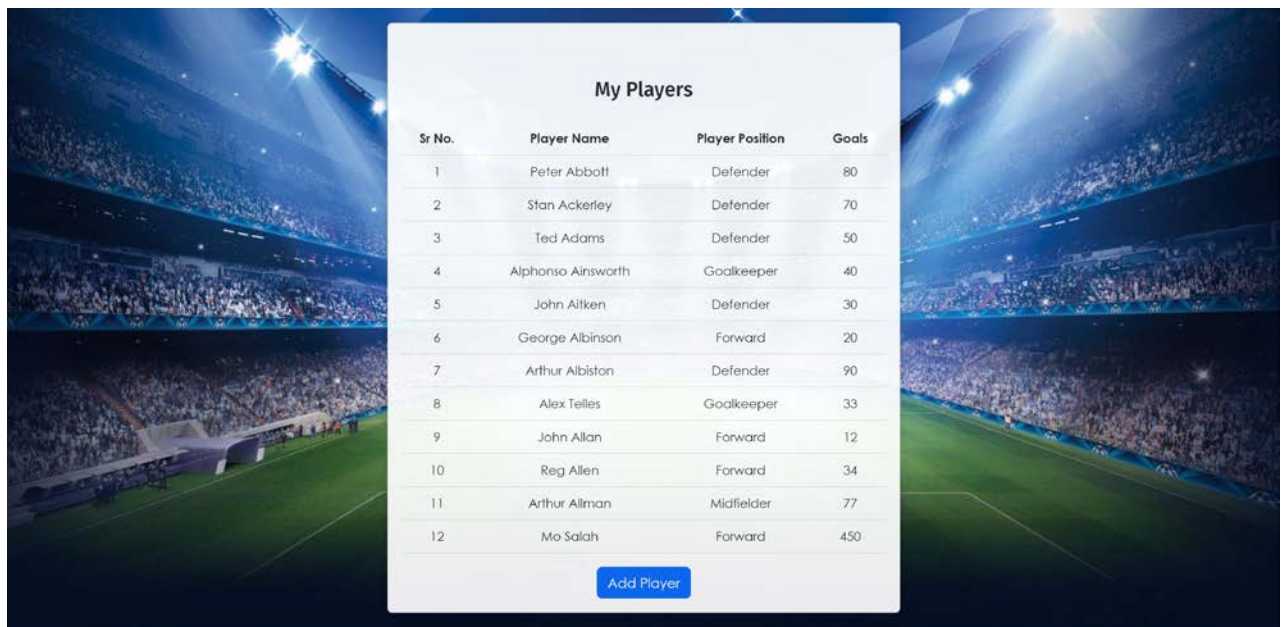
8.9.2 Participate Team Page



The screenshot shows the 'Participate' page in the ScoreZone application. The background is a vibrant image of a football stadium at night, filled with spectators and illuminated by bright lights. The page features a dark navigation bar at the top with the 'SCOREZONE' logo and links for 'Create Team', 'Participate', 'My Team', and 'Teams'. On the right, it says 'Welcome, Parth!' and has a 'Profile' dropdown menu. The main content area is a white modal box titled 'List of Tournaments'. It contains a table with four columns: 'Tournament Title', 'Start Date', 'End Date', 'Participation Deadline Date', and 'Participate'. There are four rows of tournament data, each with a blue 'Participate' button.

Tournament Title	Start Date	End Date	Participation Deadline Date	Participate
ScoreZone Cup -2023	2023-03-13	2023-03-15	2023-03-09	Participate
Knowit	2023-03-17	2023-04-08	2023-03-29	Participate
Knowit	2023-03-08	2023-03-10	2023-03-08	Participate
dy patil cup	2023-03-06	2023-03-08	2023-03-05	Participate

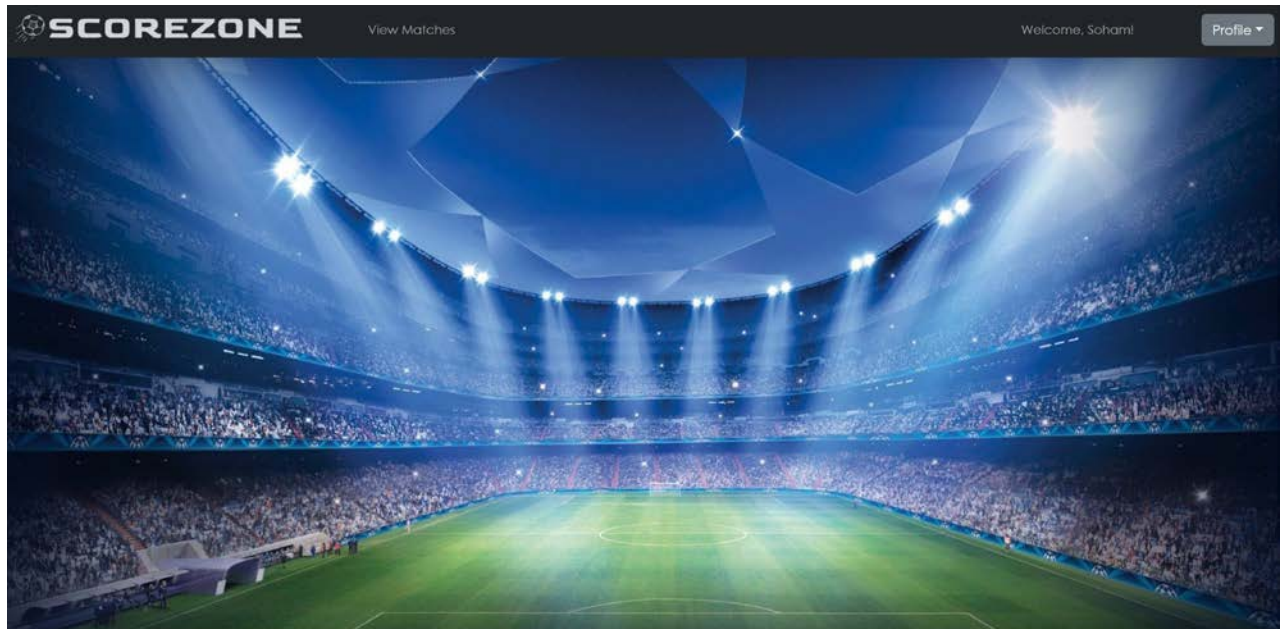
8.9.3 View My Team Page



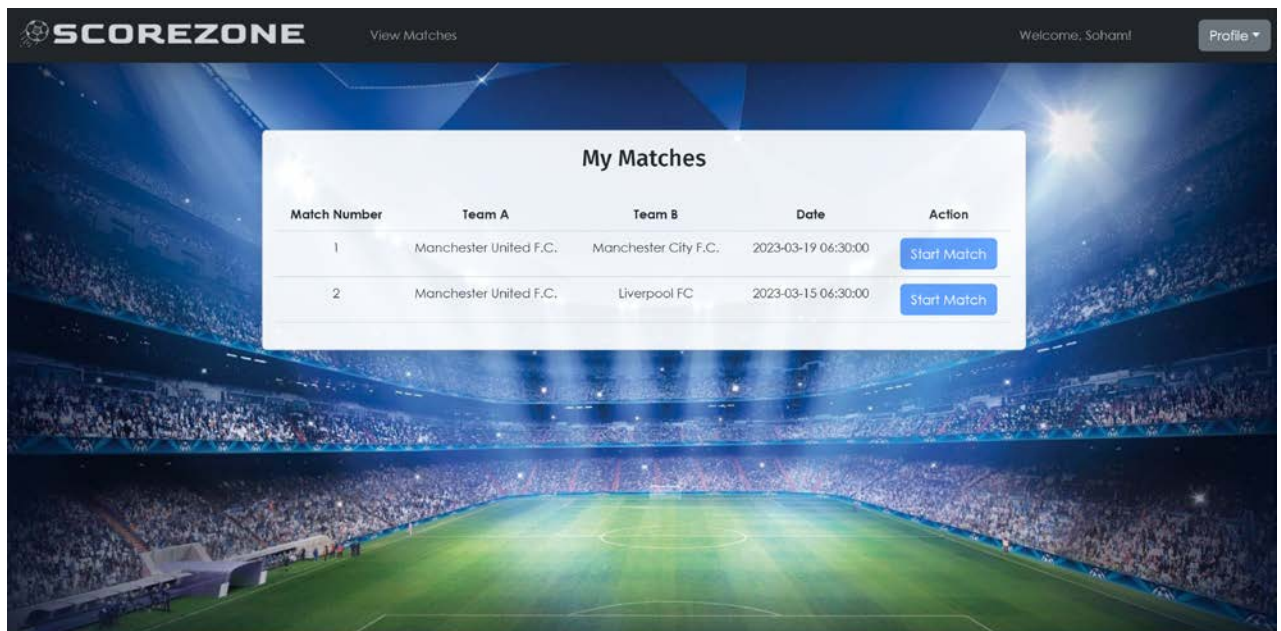
The screenshot shows the 'View My Team' page in the ScoreZone application. The background is the same football stadium image. The page features a dark navigation bar with the 'SCOREZONE' logo and links for 'Create Team', 'Participate', 'My Team', and 'Teams'. On the right, it says 'Welcome, Parth!' and has a 'Profile' dropdown menu. The main content area is a white modal box titled 'My Players'. It contains a table with four columns: 'Sr No.', 'Player Name', 'Player Position', and 'Goals'. There are 12 rows of player data. At the bottom of the modal, there is a blue 'Add Player' button.

Sr No.	Player Name	Player Position	Goals
1	Peter Abbott	Defender	80
2	Stan Ackerley	Defender	70
3	Ted Adams	Defender	50
4	Alphonso Ainsworth	Goalkeeper	40
5	John Aitken	Defender	30
6	George Albinson	Forward	20
7	Arthur Albiston	Defender	90
8	Alex Telles	Goalkeeper	33
9	John Allan	Forward	12
10	Reg Allen	Forward	34
11	Arthur Allman	Midfielder	77
12	Mo Salah	Forward	450

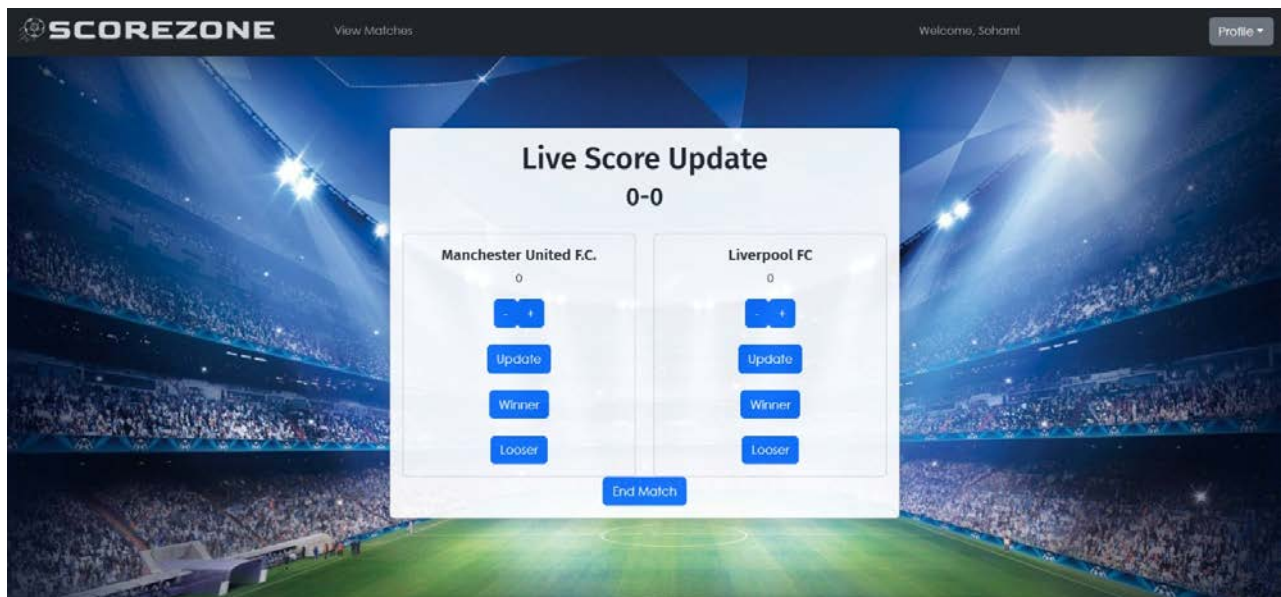
8.10 Match Updater Home Page



8.10.1 View Assigned Matches Page



8.10.1 Match Updater Score Updation page



9. CONCLUSION AND FUTURESOCPE

Our system will provide a platform for local organizers to organize a tournament in a sorted manner. The local teams and their players will get recognition. With this system Resources will be managed in a better way. From viewers point they will have the ability to track their favorite Teams and Players.

So, our System has taken down all non-core efforts for managing the tournament and taken the whole process online, also we have multiple logins.

Future Scope:

- **New Modes of Tournament** – Currently we have only a Knock-Out mode in our system but in future, we are planning to add Round-Robin, Groups-Stage, etc.
- **Admin** – Admin will be able to generate tournament report.
- **Choosing Players from the Existing record** – We will add a Feature to add existing players while creating a new team for a tournament.
- **Viewer's Features** – In the Updated Version More Features will be given to the viewers like Match Prediction, Comments, Live Commentary, etc.
- Sponsors will be able to Sponsor a Tournament/Teams.