NORTH SOUTH UNIVERSITY

Project

Course Initial: CSE311
Section: 01
Course Name: Database Management System
Date: 2nd December, 2024

Project Name: *Club, match among clubs and club records of all cricket clubs of Bangladesh*
Project ID: *03*
Group ID: *15*

Group Members Name and ID:

1. Name: *Sudipto Roy*
ID: *2222756042*
2. Name: *Aqib Ahmed*
ID: *2211335042*

DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING
North South University

Project Title: Club, match among clubs and club records of all cricket clubs of Bangladesh

Project Overview

This project is designed to manage cricket clubs across Bangladesh. It covers club administration, player statistics, match scheduling, venue management, and historical records. It provides functionalities for club management, player transfers, detailed match records, and achievements while ensuring a good user experience.

Project Objectives

1. **Club Management**: It contains club details, including history, contact information, achievements, and management committee records.
2. **Player Information**: It contains player profiles, roles of cricketers such as batsman, bowler, all-rounder, and wicketkeeper, and statistics such as runs, wickets, catches, etc..
3. **Match Scheduling**: Enable club matches with details like date, venue, time, and results.
4. **Venue Management**: Provide venue information, including capacity and location.
5. **Player Transfers**: It manages player transfers between clubs and it also includes transfer dates and values.
6. **Achievements and Milestones**: It highlights club achievements and milestones

---

Features

1. **Admin Panel**:
    - Add, update, and delete club, player, and venue data.
    - Help to manage player transfers and match results.
2. **Club Management**:
    - Maintain contact information and management committee details.
    - Assign captains and coaches with defined timelines.
3. **Match Module**:
    - Schedule matches with assigned venues.
    - Record match results and update player statistics.
4. **Player Statistics**:
    - Manages player performance (runs scored, wickets taken, catches, etc.).
    - Manage specific roles and their associated statistics.
5. **Achievements and History**:
    - Display milestones and achievements for clubs.

6. **User Registration**:
    - Allow users to register and view club and player data with restricted access.

---

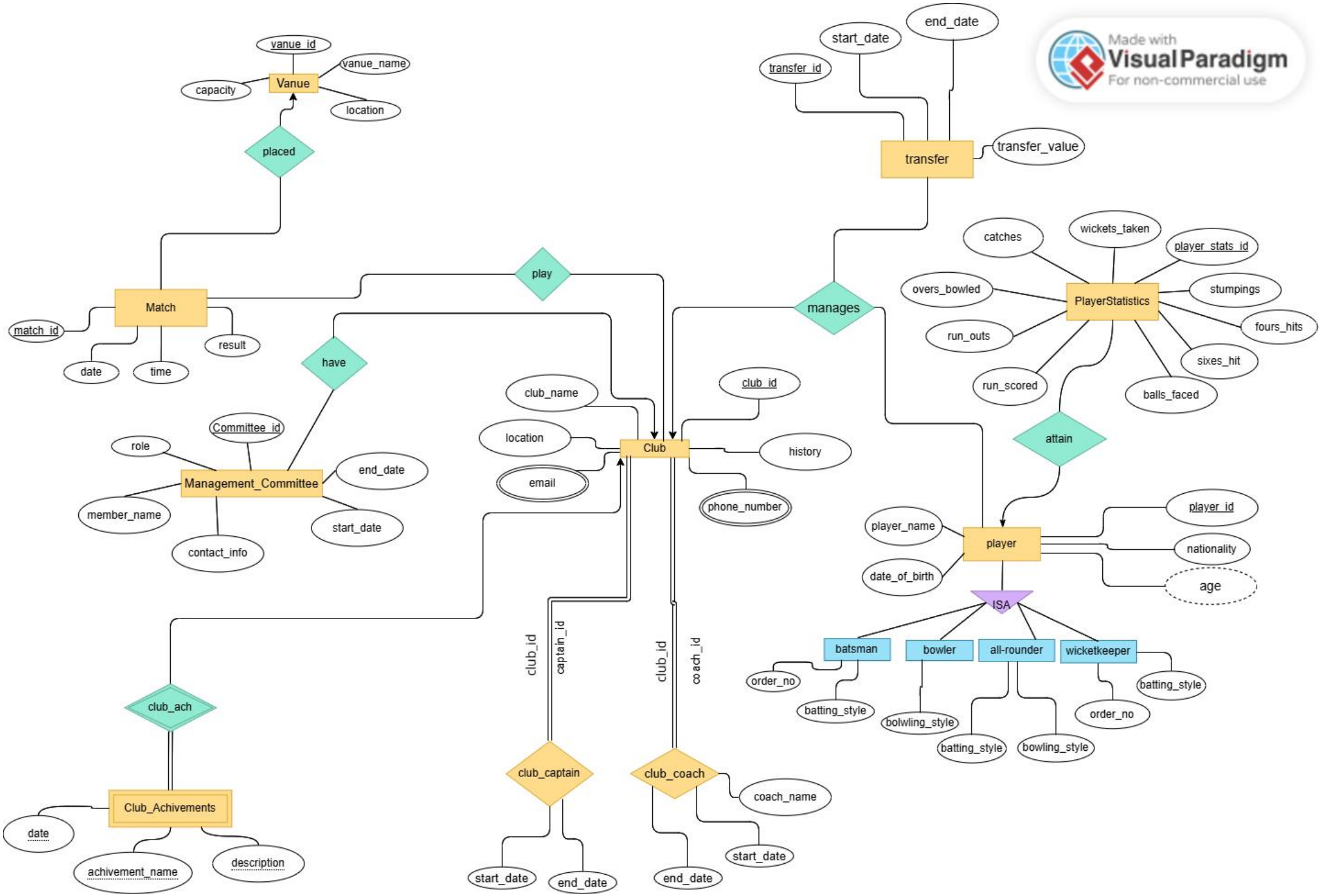
3. Requirements and Specifications

- **Database**: MySQL to manage data related to clubs, matches, venues, player statistics etc
- **Frontend**: HTML, CSS and Tailwind CSS
- **Backend**: PHP for localhost server setup.

4. Resources

Software and Tools: Visual Paradigm for ERD database design, MySQL, and a local server for development, Visual Studio Code editor

---


vanue_id
vanue_name
capacity
Vanue
location
placed
Match
match_id
date
time
result
play
have
Committee_id
role
Management_Committee
end_date
member_name
start_date
contact_info
club_name
location
email
Club
club_id
history
phone_number
transfer_id
start_date
end_date
transfer
transfer_value
manages
catches
wickets_taken
player_stats_id
overs_bowled
PlayerStatistics
stumpings
run_outs
fours_hits
run_scored
sixes_hit
balls_faced
attain
player_name
player
player_id
nationality
date_of_birth
age
ISA
batsman
bowler
all-rounder
wicketkeeper
order_no
batting_style
bolwling_style
batting_style
bowling_style
order_no
batting_style
club_ach
Club_Achivements
date
achivement_name
description
club_id
captain_id
club_captain
start_date
end_date
club_id
coach_id
club_coach
coach_name
start_date
end_date

Schema:

admin(id, name, gender, email, password)

user(user_id,name,gender,number,email,password)

club (club_id, club_name, location, history)

club_email (club_id, email)

club_phone_number (club_id, phone_number)

club_captain (club_id, captain_id, start_date, end_date)

club_coach (club_id, coach_id, coach_name, start_date, end_date)

player (player_id, player_name, date_of_birth, nationality)

batsman (player_id, order_no, batting_style)

bowler (player_id, bowing_style)

all-rounder (player_id, batting_style, bowling_style)

wicketkeeper (player_id, order_no, batting_style)

transfer (transfer_id, start_date, end_date, transfer_value)

manages (club_id, player_id, transfer_id)

management_committee (Committee_id, member_name, role, contact_info, start_date, end_date, **club_id**)

match (match_id, date, time, result, **vanue_id**, **scorecard_id**)

play (match_id, club_id)

venue (vanue_id, vanue_name, location, capacity)

playerstatitics (player_stats_id, runs_scored, wickets_taken, balls_faced, fours_hit, sixes_hit, overs_bowled, stumpings, run_outs, catches, **player_id**)

club_achievements (achievement_name, club_id, date, description)

```
# SQL DDL

- - Admin Table
CREATE TABLE admin (
id INT PRIMARY KEY,
name VARCHAR(255),
gender VARCHAR(10),
email VARCHAR(255) UNIQUE,
password VARCHAR(255)
);


- - User Table
CREATE TABLE user (
user_id INT PRIMARY KEY,
name VARCHAR(255),
gender VARCHAR(10),
number VARCHAR(15),
email VARCHAR(255) UNIQUE,
password VARCHAR(255)
);


- - Club Table
CREATE TABLE club (
club_id INT PRIMARY KEY,
club_name VARCHAR(255),
location VARCHAR(255),
history TEXT
);


- - Club Email Table
CREATE TABLE club_email (
```

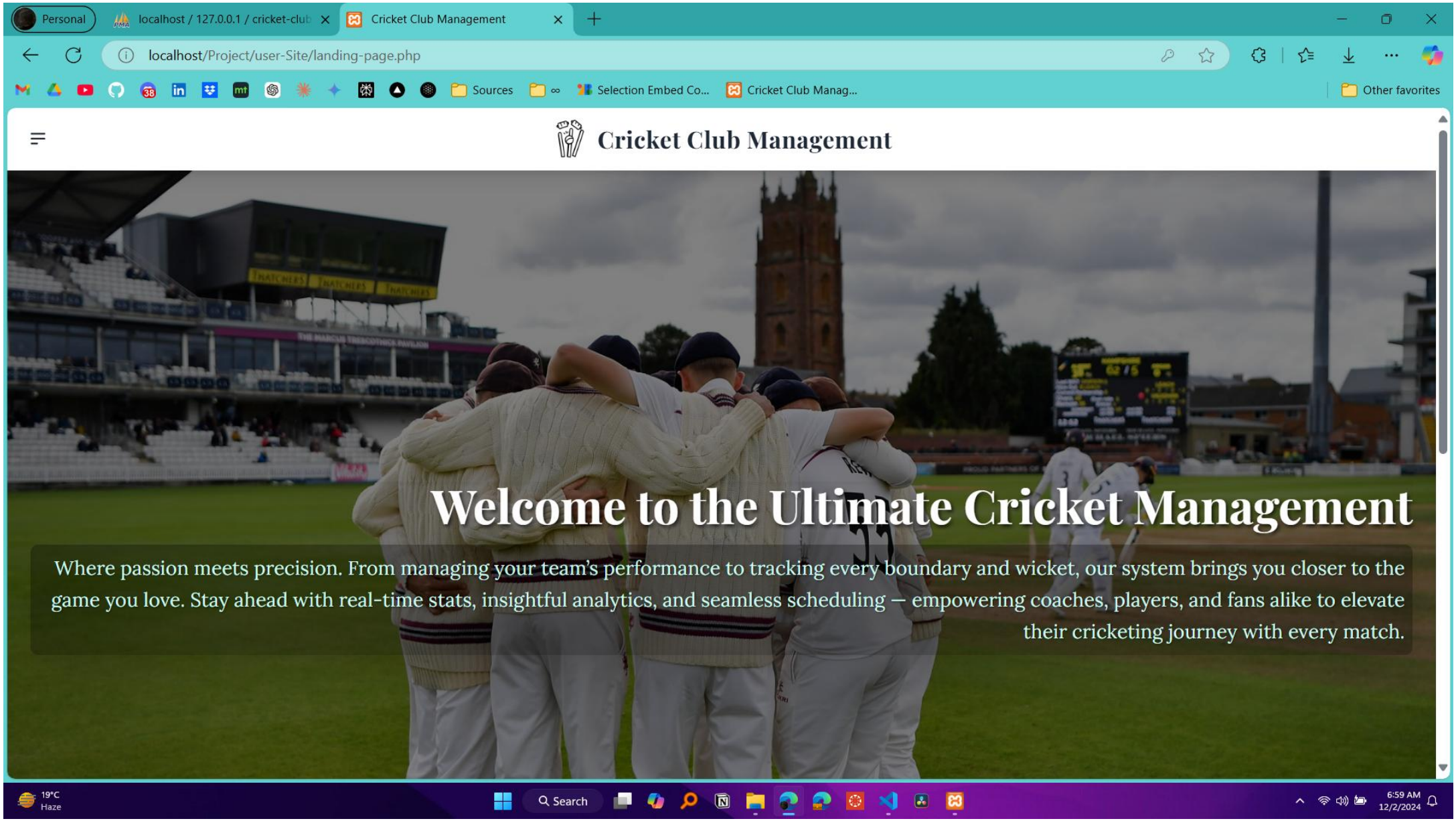
```
club_id INT,
email VARCHAR(255),
PRIMARY KEY (club_id, email),
FOREIGN KEY (club_id) REFERENCES club(club_id)
);


- - Club Phone Number Table
CREATE TABLE club_phone_number (
club_id INT,
phone_number VARCHAR(15),
PRIMARY KEY (club_id, phone_number),
FOREIGN KEY (club_id) REFERENCES club(club_id)
);


- - Club Captain Table
CREATE TABLE club_captain (
club_id INT,
captain_id INT,
start_date DATE,
end_date DATE,
PRIMARY KEY (club_id, captain_id),
FOREIGN KEY (club_id) REFERENCES club(club_id)
);


- - Club Coach Table
CREATE TABLE club_coach (
club_id INT,
coach_id INT,
coach_name VARCHAR(255),
start_date DATE,
end_date DATE,
PRIMARY KEY (club_id, coach_id),
FOREIGN KEY (club_id) REFERENCES club(club_id)
```

```
);


- - Player Table
CREATE TABLE player (
player_id INT PRIMARY KEY,
player_name VARCHAR(255),
date_of_birth DATE,
nationality VARCHAR(255)
);


- - Batsman Table
CREATE TABLE batsman (
player_id INT PRIMARY KEY,
order_no INT,
batting_style VARCHAR(50),
FOREIGN KEY (player_id) REFERENCES player(player_id)
);


- - Bowler Table
CREATE TABLE bowler (
player_id INT PRIMARY KEY,
bowling_style VARCHAR(50),
FOREIGN KEY (player_id) REFERENCES player(player_id)
);


- - All-Rounder Table
CREATE TABLE all_rounder (
player_id INT PRIMARY KEY,
batting_style VARCHAR(50),
bowling_style VARCHAR(50),
FOREIGN KEY (player_id) REFERENCES player(player_id)
);
```

```
- - Wicketkeeper Table
CREATE TABLE wicketkeeper (
player_id INT PRIMARY KEY,
order_no INT,
batting_style VARCHAR(50),
FOREIGN KEY (player_id) REFERENCES player(player_id)
);


- - Transfer Table
CREATE TABLE transfer (
transfer_id INT PRIMARY KEY,
start_date DATE,
end_date DATE,
transfer_value DECIMAL(10, 2)
);


- - Manages Table
CREATE TABLE manages (
club_id INT,
player_id INT,
transfer_id INT,
PRIMARY KEY (club_id, player_id, transfer_id),
FOREIGN KEY (club_id) REFERENCES club(club_id),
FOREIGN KEY (player_id) REFERENCES player(player_id),
FOREIGN KEY (transfer_id) REFERENCES transfer(transfer_id)
);


- - Management Committee Table
CREATE TABLE management_committee (
committee_id INT PRIMARY KEY,
member_name VARCHAR(255),
```

```
role VARCHAR(50),
contact_info VARCHAR(255),
start_date DATE,
end_date DATE,
club_id INT,
FOREIGN KEY (club_id) REFERENCES club(club_id)
);


- - Match Table
CREATE TABLE match (
match_id INT PRIMARY KEY,
date DATE,
time TIME,
result VARCHAR(50),
venue_id INT,
scorecard_id INT
);


- - Play Table
CREATE TABLE play (
match_id INT,
club_id INT,
PRIMARY KEY (match_id, club_id),
FOREIGN KEY (match_id) REFERENCES match(match_id),
FOREIGN KEY (club_id) REFERENCES club(club_id)
);


- - Venue Table
CREATE TABLE venue (
venue_id INT PRIMARY KEY,
venue_name VARCHAR(255),
location VARCHAR(255),
capacity INT
```

```
);


- - Player Statistics Table
CREATE TABLE player_statistics (
player_stats_id INT PRIMARY KEY,
runs_scored INT,
wickets_taken INT,
balls_faced INT,
fours_hit INT,
sixes_hit INT,
overs_bowled INT,
stumpings INT,
run_outs INT,
catches INT,
player_id INT,
FOREIGN KEY (player_id) REFERENCES player(player_id)
);


- - Club Achievements Table
CREATE TABLE club_achievements (
achievement_name VARCHAR(255),
club_id INT,
date DATE,
description TEXT,
PRIMARY KEY (achievement_name, club_id),
FOREIGN KEY (club_id) REFERENCES club(club_id)
);
```


Personal
localhost / 127.0.0.1 / cricket-club
Cricket Club Management
localhost/Project/user-Site/landing-page.php
Sources
Selection Embed Co...
Cricket Club Manag...
Other favorites
Cricket Club Management
Welcome to the Ultimate Cricket Management
Where passion meets precision. From managing your team's performance to tracking every boundary and wicket, our system brings you closer to the game you love. Stay ahead with real-time stats, insightful analytics, and seamless scheduling — empowering coaches, players, and fans alike to elevate their cricketing journey with every match.
19°C
Haze
Search
6:59 AM
12/2/2024

Personal | localhost / 127.0.0.1 / cricket-club | Cricket Club Management

localhost/Project/user-Site/landing-page.php

Sources | ∞ | Selection Embed Co... | Cricket Club Manag... | Other favorites

Cricket Club Management

Clubs!

Click add now to add your club

Add Now

Players!

Click add now to add your player

Add Now

Management Committee!

Click add now to add your committee member

Add Now

Venues!

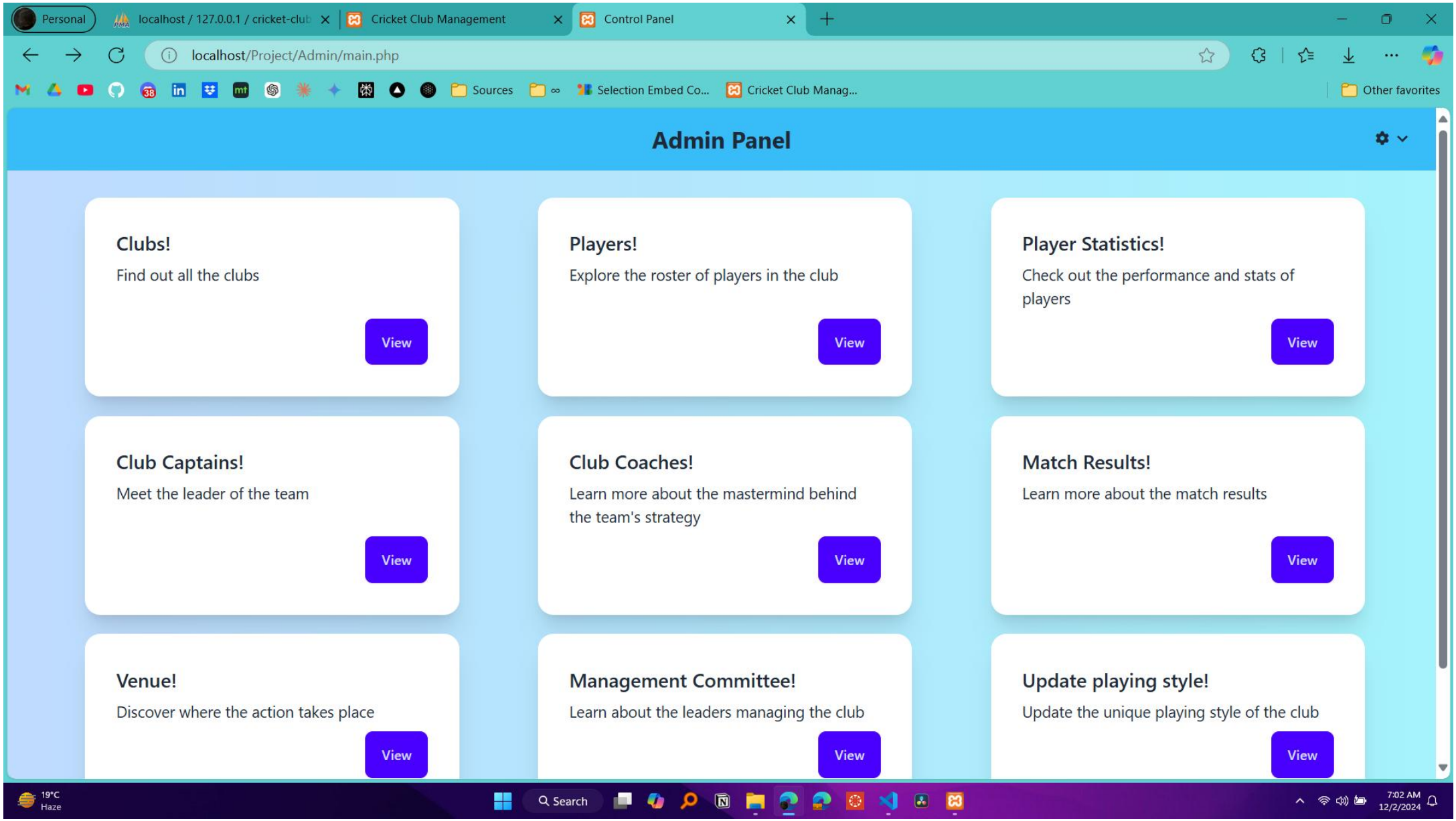
Click add now to add your venues

Add Now

Developed for project of CSE311
SUMMER'24

SOCIAL

19°C Haze | Search | 6:59 AM 12/2/2024


Personal
localhost / 127.0.0.1 / cricket-club
Cricket Club Management
Control Panel
localhost/Project/Admin/main.php
Sources
Selection Embed Co...
Cricket Club Manag...
Other favorites
Admin Panel
Clubs!
Find out all the clubs
View
Players!
Explore the roster of players in the club
View
Player Statistics!
Check out the performance and stats of players
View
Club Captains!
Meet the leader of the team
View
Club Coaches!
Learn more about the mastermind behind the team's strategy
View
Match Results!
Learn more about the match results
View
Venue!
Discover where the action takes place
View
Management Committee!
Learn about the leaders managing the club
View
Update playing style!
Update the unique playing style of the club
View
19°C
Haze
Search
7:02 AM
12/2/2024

Conclusion :

The "Comprehensive Club, Match, and Player Records System for Cricket Clubs in Bangladesh" is a modern and simple platform to manage cricket clubs effectively. It helps clubs keep track of their players, matches, venues, and achievements in one place.

This system makes it easier for clubs to handle their daily tasks and provides detailed reports on player and match performance. With its user-friendly design and strong database, it replaces old manual methods with a digital solution that is fast and reliable.

In short, this project helps improve how cricket clubs are managed in Bangladesh. It supports their growth, keeps their history safe, and makes managing cricket more efficient and organized.