## <u> 202</u>1

### **PROJECT REPORT**

on

**Cricket Scorecard** 

submitted towards the partial fulfillment of the requirement for the award of the degree of Bachelor of Technology

in

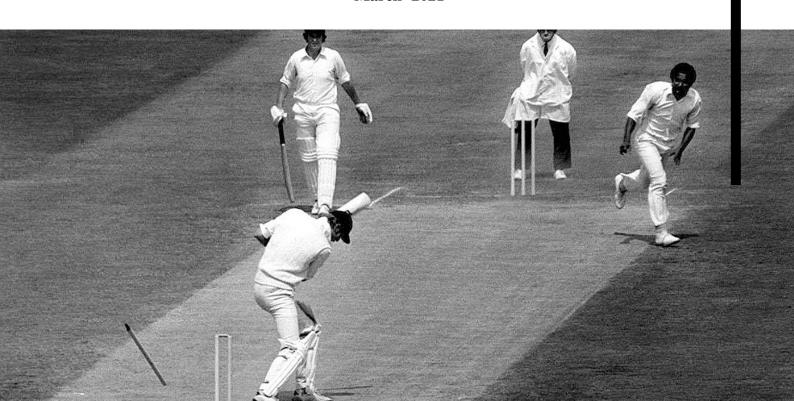
**Object Oriented Programming** 

Submitted by Shailesh (2K20/SE/124) Tanishka Anand (2K20/SE/141)

Under the Subject Teacher Dr. Sonali Chawla



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# DECLARATION

We hereby certify that the work, which is presented in the Project entitled "The Cricket Scorecard" in fulfilment of the requirement for the award of the Degree of Bachelor of Technology in Object Oriented Programming, Delhi Technological University, Delhi is an authentic record of our own, carried out under the supervision of Dr. Sonali Chawla. The work presented in this report has not been submitted and not under consideration for the award for any other course/degree of this or any other Institute/University.

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### INTRODUCTION

The project cricket scorecard developed to provide user with an update of the cricket even when the user is not watching the mach. The user can use this anytime, anywhere to see the teams, matches, player's squad, runs scored by each player and can also view the boundaries hit by the batsmen as well as the wickets taken by the bowler. This gives original experience of watching the match by the user.

Each and every match details such as the description about the team and team members will be stored in the repository system in the form of database. That database could be utilized by the mislaid by the users. Each and every match can be updated lively using this system. As soon as someone checks the scoreboard, details of a particular player can be viewed such as the number of runs the player scored, boundaries hit by the player and wickets taken by the player. This software is error free anyone can use this software

### **OBJECTIVE**

The main aim of this Project is to design and include statistics of each player and store the scores of each batsmen along with the wickets of each bowler. Cricket being a special part of the lives of many people, there will be many takers for such a system and the ability to follow the match without seeing the video will make it interesting for many. A user who is unable to watch the event like someone who is busy with their work, can easily check the score on a regular basis to get updates on what is happening. The system will keep posting updated scores and the team line-up during the match. The admin will store upcoming match details ,this will help the admin easily load information at the time of the match. This project will help the people who need to improve their performance of the event which will help to progress the betterment.

This system has been developed to override the problems prevailing in the practicing manual system. This system is supported to eliminate and in some cases reduce the hardships faced by this existing system. Moreover this system is designed for the particular need of the company to carry out operations in a smooth and effective manner. Every organization, whether big or small, has challenges to overcome and managing the information of matches, players, etc. The application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. It's a user-friendly Management System which leads to error free, secure, reliable and fast management system.



### MANUAL SYSTEM

The existing system saves all the team and team members games format system manually. Manage the activities like manual decision making, processing, announcement, scoring data and handling players & team information are very tough process. Moreover it will make lot of confusions and risks to make further process. This leads to wrong decision making in the event.

The existing system is to manually alerts the system to customer and maintains the player details, and status are in records. It will be more difficult to maintain and gathering information about specific records. It will take more time. As there is lot of data work involved, skilled staffs are used. So it becomes dependable for the management on these people. The reports are not verified to the highest extend to avoid any miscommunication and misfortune of the center.

The existing system of watching cricket is generally on the television. Most matches are not scheduled on holidays and this will allow people access to the match regardless of their location. Some sites do exist that display text commentary but they are very impersonal.



### **PROPOSED SYSTEM VS MANUAL SYSTEM**

The proposed system "Cricket Score Card System" is utilized by the particular person (administrator). Main objective of the project is to develop the software for the event requirement. In this project used to maintain the details in database so easily retrieve the details from the database. This system also having the details of player and match are maintained in the repository management system. The reports are useful to maintain the match and and details about the players and complete the work as simple and as quick. Report is generated and saved in non-editable format.

#### Advantages of the Proposed System :-

- Easily maintain all the player details.
- Report generation is easier.
- Easy to maintain score details.
- Ensure user security.

### Disadvantages of the existing system:-

- *Time consuming:* The manual processing is taking more time. It takes lots of time to record the process and transaction into a paper.
- Security is not assured: Security is not assured for the records of the organization. The need for computerizing arises in order assure the security of the records from fire or other destruction.
- *Space consuming:* A lot of space is required to maintain the record physically. To solve the problem they are going for computerization.



### **METHODOLOGY**

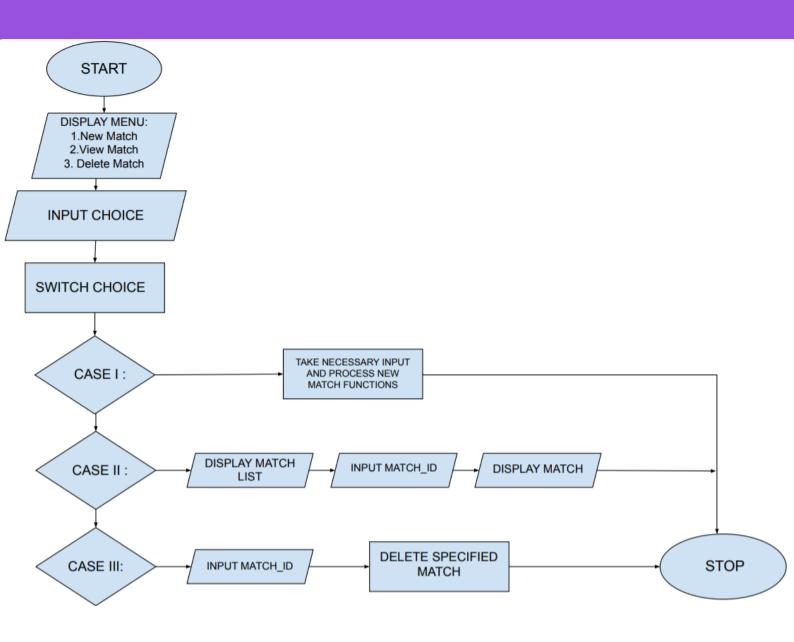
The project begins by presenting the user with a menu from which they can create a new tabular structure, which will be used to store all of the data related to the scorecard which will get stored in the database. Initial input which we take from the user are the Match details such as Competition, venue, Toss won by, Date of the match to which we assign relevant data types.

We then provide a table-like structure in which we collect batsman and bowler information. After gathering all of the relevant information, we begin assigning the runs achieved by the batsman and the bowler's performance to their respective playing turns. As runs are assigned to the batsman, simultaneously batsman's total runs and number of \_4s and \_6s are displayed. Similarly, for the bowler (now bowling), his overs, maidens, economy, number of no balls (if any), and total runs provided by the bowler are presented in conjunction with each input.

The admin will update details of upcoming cricket matches. The admin play the major role as the admin is responsible for carrying out the major operations such as updating match details, score updates etc., It maintains information regarding players as well.



# BASIC FLOW



The Program will execute in the following way taking necessary input and adding them from temporary variable storages to Database. All the necessary table generation and output view has been specified in the functions defined in the program and the user can easily manage all the information without any issues.

# OVERVIEW

The Project consists of 3 major classes Match, Team\_Batsman and Team\_Bowler. Basic Match details such as Competition, Date, Venue, Umpires, Teams, and their total scores are defined by Match Class. This class consists of 4 Functions each of which is defined to perform significant such as take Input, database entries, View Matches and Delete Matches.

Further Remaining two classes consists of consists of three functions each which defines Batsmen and Bowler details and performances. Functions are defined for carrying out table creation, take batsmen and bowler performance inputs and registering of taken inputs into their respected created tables in the database.

Each match contains one main record in the Match Details table with a unique ID allocated (specified as the database's primary key), and each match input generates four tables (two for each team in terms of batting and bowling).

# REPOSITORY STRUCTURE

### MATCH DETAILS TABLE:

#	Name	Туре	Collation	Attributes	Null	Default
1	MATCH_ID 🔑	varchar(7)	utf8mb4_general_ci		No	None
2	COMPETITION	varchar(70)	utf8mb4_general_ci		Yes	NULL
3	TEAM_1	varchar(50)	utf8mb4_general_ci		Yes	NULL
4	TEAM_2	varchar(50)	utf8mb4_general_ci		Yes	NULL
5	DATE	varchar(10)	utf8mb4_general_ci		Yes	NULL
6	VENUE	varchar(70)	utf8mb4_general_ci		Yes	NULL
7	MATCH_UMPIRES	varchar(60)	utf8mb4_general_ci		Yes	NULL
8	THIRD_UMPIRE	varchar(70)	utf8mb4_general_ci		Yes	NULL
9	MATCH_REFREE	varchar(50)	utf8mb4_general_ci		Yes	NULL
10	TEAM1_RUNS	int(6)			Yes	NULL
11	TEAM1_WKTS	int(2)			Yes	NULL
12	TEAM2_RUNS	int(6)			Yes	NULL
13	TEAM2_WKTS	int(2)			Yes	NULL

Match ID (Primary Key) is being specified as varchar datatype has no numeric restrictions and thus identifies each and every match uniquely.

### **BATSMEN PERFORMACE TABLE:**

	#	Name	Туре	Collation	Attributes	Null	Default
	1	Player	varchar(70)	utf8mb4_general_ci		Yes	NULL
	2	Runs	int(11)			Yes	NULL
	3	Balls	int(11)			Yes	NULL
	4	4s	int(11)			Yes	NULL
	5	6s	int(11)			Yes	NULL
)	6	SR	float			Yes	NULL
	7	Status	varchar(70)	utf8mb4_general_ci		Yes	NULL

Each time a team is defined a new batsmen table is automatically generated via SQL query with he following structure. The structure is unique to each match since table name consists of MATCH\_ID which is the primary key to the main table and unique to each team as table name also contains team number.

### **BOWLER PERFORMACE TABLE:**

#	Name	Туре	Collation	Attributes	Null	Default
1	Bowler	varchar(70)	utf8mb4_general_ci		Yes	NULL
2	Overs	int(11)			Yes	NULL
3	Maidens	int(11)			Yes	NULL
4	Runs	int(11)			Yes	NULL
5	Wickets	int(11)			Yes	NULL

This table structure and name is defined similar to Batsmen table structure and therefore is unique to every match and team.

## IMPLEMENTATION

```
#include <bits/stdc++.h>
class Team Bowler;
    void Batting View(string Match ID, string a);
    void Bowling View(string Match ID, string a);
```

```
string Competition;
       int Team1 runs, Team1 wickets;
       string date;
       string venue;
       string Umpires, Third Umpire, Match refree;
       string Match ID;
       void Match_Database_Entry(void); //Enter data in database
       friend void MatchList View(void); //Extract and view list of
       friend void Match View(void); // View a specific match selected via
void Match :: setdata Match(void)
   cout<<endl<<"-----"<<endl<<endl;
```

```
cout<<"Enter Match ID : "; //ID unique to every match</pre>
    getline(cin, Competition);
    getline(cin, Competition);
    cout<<"Match Between ==> \nTeam 1 :";
    getline(cin, Team1);
    cout<<"Team 2: ";</pre>
    getline(cin, Team2);
    cout<<"DATE : ";</pre>
    getline(cin, date);
    cout<<"Match Venue : ";</pre>
    getline(cin, venue);
    cout<<"Match Umpires : ";</pre>
    getline(cin, Umpires);
    cout<<"Third Umpire : ";</pre>
    getline(cin, Third Umpire);
    cout<<"Match Refree : ";</pre>
    getline(cin, Match refree);
    cin>>Team1 runs>>Team1 wickets;
    cout<<"Enter "<<Team2<<" Runs / Wickets : ";</pre>
    cin>>Team2 runs>>Team2 wickets;
void Match :: Match Database Entry(void) {
    MYSQL* conn;
```

```
conn= mysql init(0);
    conn=mysql real connect(conn, "192.168.29.53" ,"shailesh","1234",
    int qstate=0 ;
        if(conn)
       cout<<"DATABASE CONNECTED....."<<endl;</pre>
        cout<<"DATABASE NOT CONNECTED....."<<endl;</pre>
    stringstream ss; //Defining variable to pass query in the database for
    ss << " INSERT INTO Match Details VALUES('" << Match ID<< "','" <<
Competition << "','" << Team1 << "','" << Team2 << "','" << date << "','"
<< venue << "','" << Umpires << "','" << Third Umpire << "','" <<
Match refree << "','" << Team1 runs<< "','" << Team1 wickets << "','" <<
    string query = ss.str();
    const char* q =query.c str();
    qstate = mysql query(conn, q);
    if(qstate == 0){
        cout<<"Record Inserted..."<<endl;</pre>
       cout<<"Failed"<<endl;</pre>
void MatchList View(void) {
```

```
MYSQL* conn; //defining connection variable
   MYSQL ROW row;
   MYSQL RES* res;
   conn= mysql init(0);
   conn=mysql_real_connect(conn, "192.168.29.53" ,"shailesh","1234",
"cricket", 0, NULL, 0);
   if(conn){
       int qstate = mysql query(conn, "SELECT MATCH ID , COMPETITION
FROM Match Details ");
      if(!qstate){
          res = mysql store result(conn);
              cout<<"-----
           -----"<<endl;
MATCHES
                       "<<endl;
              cout<<"-----
           -----"<<endl;
          while(row = mysql fetch row(res)){
                  cout<<" "<<setw(5)<<row[0]<<" " <<"
"<<row[1]<<endl; //Display All matches
                  cout<<"-----
                -----"<<endl;
      void Match View(void) {
          MYSQL* conn; //defining connection variable
```

```
MYSQL ROW row;
            conn= mysql init(0);
            conn=mysql real connect(conn, "192.168.29.53"
            if(conn){
                string sqlQuery;
                cin>>sqlQuery;
                id=sqlQuery;
            sqlQuery= "SELECT * FROM Match Details WHERE MATCH ID = "+
sqlQuery;
            int qstate =mysql_query(conn, sqlQuery.c_str());
        if(!qstate){
                res = mysql store result(conn);
                while(row = mysql fetch row(res)){
                           cout<<"-----
                          -----"<<endl;
                           cout<<"|"<<"COMPETITION : "<<row[1]<<"</pre>
          "<<"DATE : "<<row[4]<<endl;
                           cout<<endl;</pre>
                           cout<<"|"<<"MATCH BETWEEN : "<<row[2]<<" V/S</pre>
cout<<endl;</pre>
                            cout<<"|"<<"VENUE : "<<row[5]<<endl;</pre>
                         cout<<endl;</pre>
                            cout<<"|"<<"MATCH UMPIRES : "<<row[6]<<endl;</pre>
                             cout << endl;
                            cout<<"|"<<"THIRD UMPIRE : "<<row[7]<<" |</pre>
 <<"MATCH REFREE : "<<row[8]<<endl;
```

```
cout<<endl;</pre>
                            cout<<"|"<<row[2]<<":
"<<row[9]<<"/"<<row[10]<<"
                                   "<<row[3]<<" :
"<<row[11]<<"/"<<row[12]<<endl;
                             cout<<"-----
                            ----"<<endl<<endl;
          cout<<"\n\t---TEAM 1 BATTING PERFORMANCE ----"<<endl;</pre>
         Batting View(id, "1");
         cout<<"\n\t---TEAM 1 BOWLING PERFORMANCE ----"<<endl;</pre>
         Bowling View(id, "1");
         cout<<endl;</pre>
         cout<<"\n\t---TEAM 2 BATTING PERFORMANCE ----"<<endl;</pre>
         Batting View(id, "2");
         Bowling View(id, "2");
void Delete_match(void) {
   MYSQL* conn;//Defining connection variable
    conn= mysql init(0);
```

```
conn=mysql real connect(conn, "192.168.29.53", "shailesh", "1234",
"cricket", 0, NULL, 0);
       if(conn){
       string sqlQuery;
       cin>>sqlQuery;
       id=sqlQuery;
       sqlQuery = "DELETE FROM Match Details WHERE MATCH ID = "+
sqlQuery;
        int qstate =mysql query(conn, sqlQuery.c str());
       stringstream ss;
       ss << " DROP TABLE
       const char* q =query.c str();
       int rstate = mysql query(conn, q);
       string player;
```

```
int p[4];
    string status;
    void Create Table Batting(string Match ID, string a);// Function
    void Batting Database Entry(string Match ID, string a, int num);
    friend void Batting View(string Match ID, string a);
void Team Batsman :: Create Table Batting(string Match ID, string a)
MYSQL* conn;
conn= mysql init(0);
conn=mysql real connect(conn, "192.168.29.53" ,"shailesh","1234",
```

```
const char* q =query.c str();
   int qstate = mysql query(conn, q);
   if(qstate ==0){
       cout<<"Table Created..."<<endl;</pre>
       cout<<"Failed!!"<<endl;</pre>
void Team Batsman :: Batting Database Entry(string Match ID, string a, int
   MYSQL* conn; // Defining connection variable
   conn= mysql init(0);
   conn=mysql real connect(conn, "192.168.29.53" ,"shailesh","1234",
   cout<<"\n-----\n";
   for(int j=0;j<num;j++) {</pre>
   fflush(stdin);
   cout<<"Enter Player Name : ";</pre>
   getline(cin, player);
   cout<<"Input \n Runs Balls 4s 6s :"<<endl;</pre>
 for(int i=0;i<4;i++)
```

```
cout<<"\t";</pre>
      cin>>p[i];//taking numeric input into array
  SR=((float) p[0]/(float) p[1])*100;
  fflush(stdin);
  cout<<"Enter Status : ";</pre>
  getline(cin, status);
    stringstream ss;
    ss << " INSERT INTO "<< Match ID<<" Team "<<a<<" Batting VALUES('" <<
player<< "','" << p[0] << "','" << p[1] << "','" << p[2] << "','" << p[3]
<< "','" << SR<< "','" << status << "')";
    string query = ss.str();
    const char* q =query.c str();
    int qstate = mysql query(conn, q);
    if(qstate ==0){
       cout<<"Record Inserted...\n"<<endl;</pre>
       cout<<"Failed!!\n"<<endl;</pre>
void Batting View(string Match ID, string a) {
   MYSQL* conn; //Defining connection variable
   MYSQL ROW row;
   MYSQL RES* res;
    conn= mysql init(0);
    conn=mysql real connect(conn, "192.168.29.53" , "shailesh", "1234",
"cricket", 0, NULL, 0);
    if(conn){
            string sqlQuery;
```

```
sqlQuery ="SELECT * FROM "+ Match ID+" Team "+a+" Batting";
     int qstate = mysql query(conn, sqlQuery.c str() );
     if(!qstate){
        res = mysql_store_result(conn);
           cout<<"----
          -----"<<endl;
           cout<<"-----
             -----</endl;
        while(row = mysql fetch row(res)){
              cout << setw (15) << row [0] << " "
cout<<"-----
            ------<-endl;
     string bowler;
     int p[4];
   void Create Table Bowling(string Match ID, string a); //Function to
   void Bowling Database Entry(string Match ID, string a, int num);
```

```
friend void Bowling View(string Match ID, string a);
   void Team Bowler :: Create Table Bowling(string Match ID, string a)
   MYSQL* conn;//Defining connection variable
   conn= mysql init(0);
   conn=mysql real connect(conn, "192.168.29.53" , "shailesh", "1234",
"cricket", 0, NULL, 0);
   string query = ss.str();
   const char* q =query.c_str();
   int qstate = mysql query(conn, q);
   if(qstate ==0){
       cout<<"Table Created..."<<endl;</pre>
       cout<<"Failed!!"<<endl;</pre>
```

```
The function takes arguments MATCH ID to know for which match and team
void Team Bowler :: Bowling Database Entry(string Match ID, string a, int
    MYSQL* conn; //Defining connection variable
    conn= mysql init(0);
    conn=mysql real connect(conn, "192.168.29.53" ,"shailesh","1234",
"cricket", 0, NULL, 0);
    cout<<"\n-----TEAM "<<a<<" BOWLING RECORD INPUT -----\n";
    for(int j=0;j<num;j++) {</pre>
    fflush(stdin);
    cout<<"Enter Bowler Name : ";</pre>
    getline(cin, bowler);
    cout<<"Input \n Overs Maidens Runs Wickets :"<<endl;</pre>
  for(int i=0;i<4;i++)
      cin>>p[i]; //taking Numeric Input
    stringstream ss;//variable to write query
    ss << " INSERT INTO "<< Match ID<<" Team "<<a<<" Bowling VALUES('" <<
bowler<< "','" << p[0] << "','" << p[1] << "','" << p[2] << "','" << p[3]
    string query = ss.str();
    const char* q =query.c str();
    int qstate = mysql query(conn, q);
    if(qstate == 0){
        cout<<"Record Inserted...\n"<<endl;</pre>
       cout<<"Failed!!\n"<<endl;</pre>
```

```
void Bowling View(string Match ID, string a) {
   MYSQL* conn; //Defining connection variable
   MYSQL ROW row;
   MYSQL RES* res;
   conn= mysql init(0);
   conn=mysql real connect(conn, "192.168.29.53" ,"shailesh","1234",
"cricket", 0, NULL, 0);
   if(conn){
          string sqlQuery;
   sqlQuery ="SELECT * FROM "+ Match ID+" Team "+a+" Bowling";
       int qstate = mysql query(conn, sqlQuery.c str() );
       if(!qstate){
          res = mysql store result(conn);
----"<<endl;
"<<endl;</pre>
              cout<<"----------
----"<<endl;
          while(row = mysql fetch row(res)){
                  |"<<setw(4)<<row[2]<<" | "<<setw(3)<<row[3]<<" |
"<<setw(3)<<row[4]<<endl; //Display Bowler Performances
                  cout<<"-----
   ---"<<endl;
```

```
int main()
   system("Color OB");
   fflush(stdin);
   cout << endl</pre>
        << endl
SYSTEM----" << endl;
   while (1)
       cout << endl
            << "CHOOSE OPERATION : " << endl;</pre>
       if (choice == 1)
           Match TD;
           TD.setdata Match();
           TD.Match_Database_Entry();
           cout << endl
```

```
cin >> batsmen;
cout << "Enter No. of Bowler in Each Team : ";</pre>
cin >> bowlers;
A.Create Table Batting(TD.Match ID, "1");
A.Batting Database Entry(TD.Match ID, "1", batsmen);
C.Create Table Bowling(TD.Match ID, "1");
C.Bowling Database Entry(TD.Match ID, "1", bowlers);
B.Create Table Batting(TD.Match ID, "2");
B.Batting Database Entry(TD.Match ID, "2", batsmen);
D.Create Table Bowling(TD.Match ID, "2");
D.Bowling Database Entry(TD.Match ID, "2", bowlers);
MatchList View();
Match View();
cout << "Invalid choice !!!";</pre>
```

cout << "Enter No. of Batsmen in Each Team : ";</pre>

## OUTPUT

```
CHOOSE OPERATION:

1.Match Details Input

2.View Match

3.Delete Match
Enter choice: 1
```

Output begins with the display of Menu.
On selection of choice 1, New Match entry will initiate.

#### NEW MATCH FUNCTIOANALITY:

```
Enter Match ID : 101
Enter Competition : ICC Mens T20 WC 2021
Match Between ==>
Team 1 :South Africa
Team 2: West Indies
DATE : 26/10/2021
Match Venue : Dubai International Stadium, Dubai
Match Umpires : Aleem Dar(PAK), Paul Reiffel(AUS)
Third Umpire : Chris Brown(NZ)
Match Refree : David Boon(AUS)
Enter South Africa Runs / Wickets : 144 2
Enter West Indies Runs / Wickets : 143 8
DATABASE CONNECTED......
Record Inserted...
```

Match Details will be taken as shown and further database would be connected and match record would be inserted. Match\_ID being primary key in the main table would play the main role through out the source code execution.

```
----INPUT INFO----
Enter No. of Batsmen in Each Team : 5
Enter No. of Bowler in Each Team : 5
Table Created...
-----TEAM1 BATTING RECORD INPUT -----
Enter Player Name : Bavuma
Input
 Runs
      Balls 4s
                    6s :
       2 3 0 0
                      Enter Status : run out(Russel)
Record Inserted...
Enter Player Name : Hendricks
Input
 Runs
      Balls 4s
                    6s :
       39 30 4 1
                      Enter Status : c.Akeal Hosein
Record Inserted...
Enter Player Name : Dussen
Input
 Runs
      Balls 4s
                    6s :
       43 51 3 0
                      Enter Status : not out
Record Inserted...
Enter Player Name : Pretorius
Input
 Runs
      Balls 4s
                    6s :
       2 3 0 0
                      Enter Status : not out
Record Inserted...
Enter Player Name : Miller
Input
        Balls 4s
 Runs
                    6s :
       21 30 0 0
                      Enter Status : b.Akeal Hosein
Record Inserted...
Table Created...
```

```
Table Created...
-----TEAM2 BATTING RECORD INPUT -----
Enter Player Name : Simmons
Input
 Runs
        Balls 4s 6s:
       16 35 0 0
                      Enter Status : b.Rabada
Record Inserted...
Enter Player Name : Lewis
Input
 Runs
        Balls 4s
                   6s :
       56 35 3 6
                      Enter Status : c.Rabada
Record Inserted...
Enter Player Name : Pooran
Input
 Runs
        Balls 4s
       12 7 2 0
                      Enter Status : c.Miller
Record Inserted...
Enter Player Name : Pollard
Input
 Runs
        Balls 4s 6s:
       26 20 2 1
                      Enter Status : b.Pretorius
Record Inserted...
Enter Player Name : Russel
Input
 Runs
        Balls 4s
                    6s :
       5 4 1 0
                      Enter Status : b.Nortjie
Record Inserted...
```

Number of Batsmen and Bowler would be taken to not restrict the Project to official 11 players' match. Further Batsmen Details specific to team and Match (via Match ID) would be taken as shown.

```
Table Created...
-----TEAM_1 BOWLING RECORD INPUT -----
Enter Bowler Name : Markram
Input
 Overs Maidens
                 Runs Wickets :
3 1 22 0
Record Inserted...
Enter Bowler Name : Rabada
Input
Overs Maidens Runs Wickets :
Record Inserted...
Enter Bowler Name : Nortje
Input
Overs Maidens Runs Wickets :
4 0 24 2
Record Inserted...
Enter Bowler Name : Shamsi
Input
Overs Maidens Runs Wickets :
Record Inserted...
Enter Bowler Name : Pretorius
Input
Overs Maidens Runs Wickets :
2 0 17 3
Record Inserted...
```

```
----TEAM 2 BOWLING RECORD INPUT -----
Enter Bowler Name : Hosein
Input
Overs Maidens Runs Wickets :
  4 0 27 1
Record Inserted...
Enter Bowler Name : Rampaul
Input
 Overs Maidens
                 Runs Wickets :
  3 0 22 0
Record Inserted...
Enter Bowler Name : Russell
Input
 Overs Maidens
                 Runs Wickets :
 3 0 36 0
Record Inserted...
Enter Bowler Name : Walsh
Input
Overs Maidens Runs Wickets :
  3 0 26 0
Record Inserted...
Enter Bowler Name : Bravo
Input
Overs Maidens
                 Runs Wickets :
 4 0 23
Record Inserted...
```

Similarly bowling details input would taken with respect to each team.



#### VIEW MATCH FUNCTIOANALITY:

```
CHOOSE OPERATION:

1.Match Details Input

2.View Match

3.Delete Match
Enter choice: 2

Match ID | LIST OF ALL MATCHES

101 | ICC Mens T20 WC 2021

102 | 4 Day Franchise Series 2021-22

103 | Women Big Bash League 2021

Enter Match_ID value:

101
```

On Selecting View Match choice, A list of Matches from Database would be displayed following which Match ID would be requested from the user.

```
COMPETITION : ICC Mens T20 WC 2021 || DATE : 26/10/2021

MATCH BETWEEN : South Africa V/S West Indies

VENUE : Dubai International Stadium, Dubai

MATCH UMPIRES : Aleem Dar(PAK), Paul Reiffel(AUS)

THIRD UMPIRE : Chris Brown(NZ) | MATCH REFREE : David Boon(AUS)

South Africa : 144/2 | West Indies : 143/8
```

On Entering the Match  $\ensuremath{\mathsf{ID}}$  , All details respective to matches would be displayed.

TEAM	TEAM 1 BATTING PERFORMANCE									
Player		R(B)	I	4s	I	6s	I	SR		Status
Bavuma		2( 3)	I	0	I	0	I	66.6667	ı	run out(Russel)
Hendricks	ı	39( 30)	Ī	4	I	1	I	130	ı	c.Akeal Hosein
Dussen	ı	43( 51)	Ī	3	I	0	I	84.3137	ı	not out
Pretorius	I	2( 3)	I	0	I	0	I	66.6667	I	not out
Miller	١	21( 30)	I	0	I	0	I	70	I	b.Akeal Hosein
TEAM	1 BC	DWLING PERFORM	MAN	CE						
Bowler		0   M	ī	R	 	W				
Markram	1	3   1	Ϊ	22	ī	0				
Rabada	ı	4   0	Ϊ	27	ī	1				
Nortje	ı	4   0	Ϊ	24	ī	2				
Shamsi	1	3   0	Ϊ	37	Ī	0				
Pretorius		2   0	Ι	17	Ī	3				
TEAM	2 BA	ATTING PERFORM	MAN	CE						
Player	ı	R(B)	Ī	4s	I	6s	I	SR	I	Status
Simmons	I	16( 35)	Ī	0	I	0	I	45.7143	I	b.Rabada
Lewis		56( 35)	I	3	I	6	I	160	ı	c.Rabada
Pooran	l	12( 7)	I	2	I	0	I	171.429	I	c.Miller
Pollard	l	26( 20)	I	2	I	1	I	130	I	b.Pretorius
Russel	I	5( 4)	Ι	1	I	0	I	125	I	b.Nortjie

```
---TEAM 2 BOWLING PERFORMANCE ----

Bowler | 0 | M | R | W

Hosein | 4 | 0 | 27 | 1

Rampaul | 3 | 0 | 22 | 0

Russell | 3 | 0 | 36 | 0

Walsh | 3 | 0 | 26 | 0

Bravo | 4 | 0 | 23 | 0
```

All match related Batting and bowling data would be displayed in tabular form as shown.

#### DELETE MATCH FUNCTIOANALITY:

```
CHOOSE OPERATION :
1.Match Details Input
2.View Match
3.Delete Match
Enter choice : 3
Enter Match_ID value :
103
CHOOSE OPERATION :
1.Match Details Input
2.View Match
3.Delete Match
Enter choice : 2
 Match ID
                                LIST OF ALL MATCHES
     101
                                ICC Mens T20 WC 2021
     102
                                4 Day Franchise Series 2021-22
```

When a Match is deleted via ID , its record and all the associated tables are dropped collectively from the database.

## CONCLUSION

It is concluded that the application works well and satisfy the end users. The application is tested very well and errors are properly debugged. This system eliminate and reduce the hardships faced by the manual system. Thus its more convenient than the manual system and it also reduces the confusion and problems faced in the manual system.

This system is user friendly so everyone can use easily. The end user can easily understand how the whole system is implemented. The system is tested, implemented and the performance is found to be satisfactory. All necessary output is generated. Thus, the project is completed successfully. Further enhancements can be made to the application, so that the application functions very attractive and useful manner than the present one.