MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute
Affiliated to RGPV, Bhopal)

Skill Based Mini Project Report

on

"STADIUM SEAT BOOKING MANAGEMENT SYSTEM"

Submitted By:

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CSE, 2nd Year, 4th Semester

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Submitted to:

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GWALIOR - 474005 (MP) est. 1957

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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CERTIFICATE

This is certified that **Shashank Uchariya** (0901CS201116) has submitted the project report titled **"Stadium Seat Booking Management System"** under the mentorship of **Ms. Jaimala Jha,** in partial fulfilment of the requirement for the award of degree of Bachelor of Technology in Computer Science and Engineering from Madhav Institute of Technology and Science, Gwalior.

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Faculty Mentor
Assistant Professor
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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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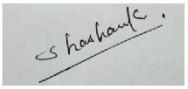
DECLARATION

I hereby declare that the work being presented in this project report, for the partial fulfilment of requirement for the award of the degree of Bachelor of Technology in Computer Science and Engineering at Madhav Institute of Technology & Science, Gwalior is an authenticated and original record of my work under the mentorship of **Ms. Jaimala Jha**, **Assistant Professor, Computer Science and Engineering.**

I declare that I have not submitted the matter embodied in this report for the award of any degree or diploma anywhere else.



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II Year, 4th Semester
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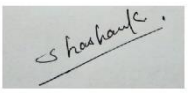

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ABSTRACT

Project "Stadium Seat Booking Management System" , inculcates us with the concept of managing and organising a database.We have used the concept **of MySQL to implement**an interface to insert and maintain data in the database.
The interface consists of 4 tabs viz. Home, User, Admin,Registration. User can register itself and then get login credentials to system. After registration user can login to system and view stadium information, sport events scheduled, previous bookings of tickets and food tickets.

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ABBREVIATIONS

GHz : Giga Hertz

MySQL Database

INTRODUCTION

The interface consists of 4 tabs viz. Home, User, Admin,Registration. User can register itself and then get login credentials to system. After registration user can login to system and view stadium information, sport events scheduled, previous bookings of tickets and food tickets. User can select from available events and proceed to which category of seats to select, user can select from available seats and proceed to preorder food items. Food order interface shows available food items from which user can select items. After selecting seats and food items order is shown to user for confirmation and stored in database. Admin interface allows admin to change stadium information, events, seating availablity, food items.

OBJECTIVE OF THE PROJECT:

It deals with the maintenance of booking tickets in stadium. This project of involved the automation of people information that can be implemented in booking seat managements.

Point of concern:

Some major problems are displayed below:

• Maintaining records in a register is long-winded.

• Reliability of records cannot be guaranteed because of being prone to human errors.

• The recorded data’s security cannot be guaranteed as it can be easily altered or theft.

TOOLS USED

HARDWARE ESSENTIALS

- Processor: Minimum 1 GHz; Recommended 2GHz or more.
- Ethernet connection (LAN) OR a wireless adapter (Wi-Fi)
- Hard Drive: Recommended 64 GB or more.
- Memory (RAM): Recommended 4 GB or above

SOFTWARE ESSENTIALS

- Operating system: Windows or MacOs or Linux
- Language: Python , c , c++.
- MySQL is used for manage the database

IMPLEMENTATION:

- **Some functions/ commands implemented are:**
- Import: to import standard libraries like mysql.connector.
- cursor() : to adjust cursor in the screen.
- execute() : to execute table creation if not exist
- label() : for naming the grid,
- INSERT : SQL command to insert entries in the respective table
- connect() : implementation of mysql.connector
- CREATE : SQL command to create a schema

SCHEMA:

- **Table admin (**

  Id serial INTEGER,

  admin_name VARCHAR(30) ,

  admin_pass VARCHAR(20 **);**

- **Table users(**

  Id serial INTEGER ,

  user_name VARCHAR(30),

  User_pass VARCHAR(20) **);**

- **Table booking(**

  User_id INTEGER,

  Booking_id serial Primary key

  event VARCHAR(40),

  seat_type VARCHAR(40)**)**;

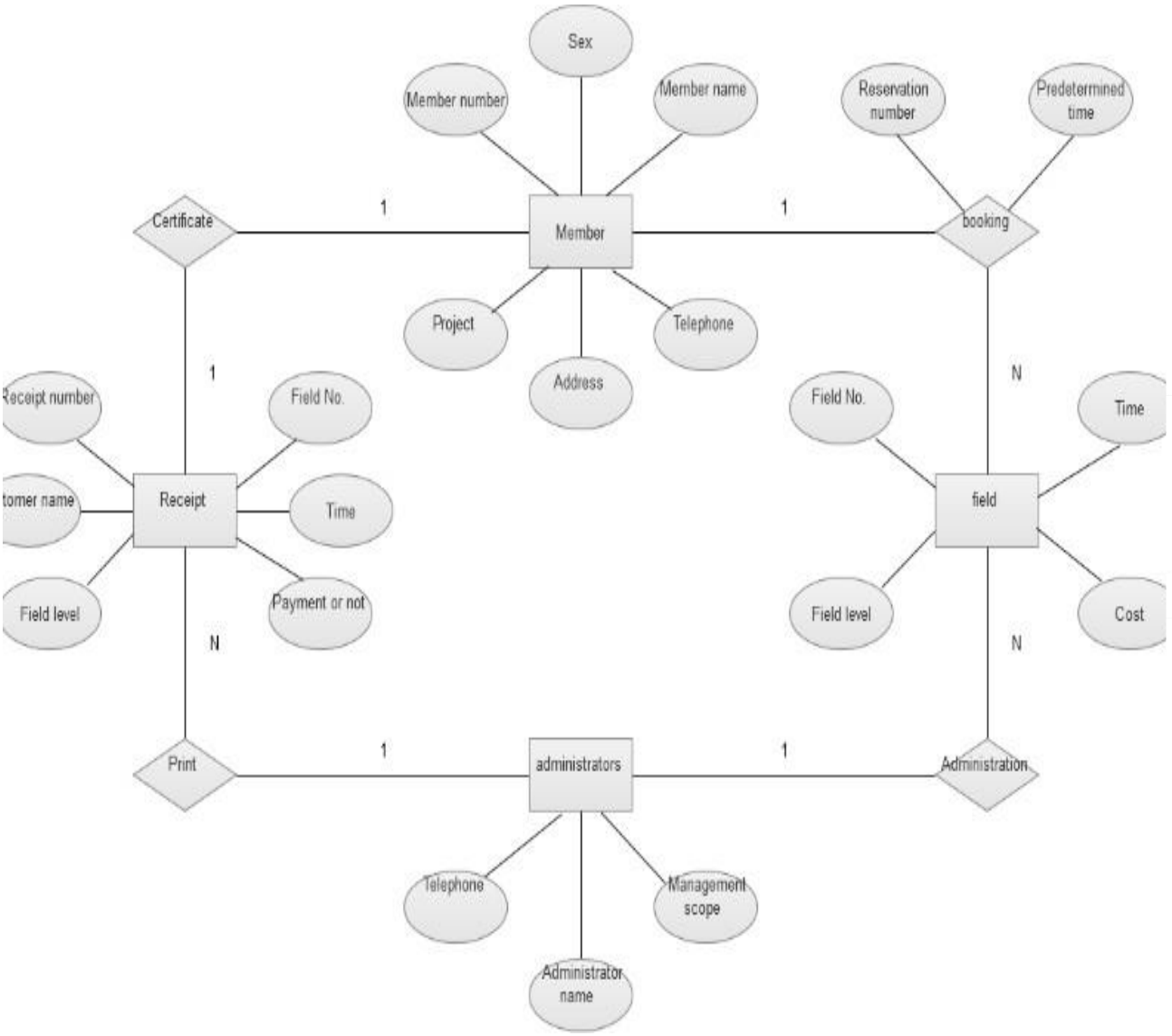
- **Table stadium(**

  name varchar(40) ,

  city varchar(40),

  address VARCHAR(30)**);**

ER DIAGRAM


Sex
Member number
Member name
Reservation number
Predetermined time
Certificate
1
Member
1
booking
Project
Telephone
Address
1
N
Receipt number
Field No.
tomer name
Receipt
Time
Field level
Payment or not
Field No.
Time
field
Field level
Cost
N
N
Print
1
administrators
1
Administration
Telephone
Management scope
Administrator name

RESULT

OUTPUT SCREEN :-

```
Wankhede Stadium|Mumbai|Vinoo Mankad Rd, Church gate, M
umbai, Maharashtra 400020|1234567890
Wankhede Stadium|T20:India vs Australia|2018-09-20|10:0
0:00
Wankhede Stadium|ODI:India vs Australia|2018-10-20|9:0
0:00
```

CONCLUSION

After successfully completing the minor project, a simple conclusion can be drawn that an “Stadium Seat booking Management System” is a well organised management system. The proposed system magnificently maintains the seat booking records of this organization. Relational database implementation efficiently inculcates all the essential features whether it is maintenance of records or updation of records. These details are to be entered and retrieved manually, due to which of there are certain disadvantages such as time consumption, inaccuracy of data, updating process, and much more.

SCOPE OF THE PROJECT

This project can be improved in various aspects such as record updation and record entry can be made much less tiresome. Also work should be done on its disadvantages like inaccuracy, time consumption, manual entry, etc. With more advancement in our learning , we can develop this project .

REFERENCES:

- Github for viewing other project as reference
- Mysql connector implementation tutorials

APPENDICES

The following is the code :

```
create table admin(id serial primary key,admin_name varchar(20) not null unique,admin_pass varchar(20) not null);

create table users(id serial primary key,user_name varchar(20) not null unique,user_pass varchar(20) not null,hint varchar(50),name varchar(50) not null,email varchar(40) not null,mobnum varchar(10) unique,avail_seat int default(5));

create table booking(user_id int references users(id),booking_id serial primary key,seat_num int array[5] unique,food_id int unique,amt double,status varchar(50) defualt('pending'));

create table food_order(food_id int references booking(food_id) unique,items varchar(20) array[3],quantity int array[3]);

create table stadium(name varchar(40) primary key,city varchar(40) not null,address varchar(100) not null,phone int unique);

create table sportevent(stadium_name varchar(40) references stadium(name),event_name varchar(50) not null,start_date date not null,start_time time not null);

select * from admin;

select * from users;

select * from booking;

select * from user_info;

select * from food_order;

select * from stadium;

select * from sportevent;

select user_name from users,user_info where users.user_id=user_info.user_id;

select * from users natural join user_info;

select booking_id,seat_num,food_id from booking;

select user_id from users where user_name='Sandeep'


insert into admin(admin_name,admin_pass) values('Admin','admin@123');

insert into admin(admin_name,admin_pass) values('Chintamani','Chintu@123');

insert into users(user_name,user_pass,hint,name,email,mobnum)
values('Chintamani','Chintu@123','name@123','Chintamani
Naik','n.chintamani103@gmail.com',7769041432);

update users set hint='name@123' where user_id=1;

insert into users(user_name,user_pass) values('Nikhil','nick@123');
```

```
insert into booking(user_id,seat_num) values(1,'{10,11,12,13}');

insert into booking(user_id,seat_num) values(2,'{21,22,23}');

update booking set food_id=7 where booking_id=1;

delete from booking where booking_id=1;

delete from user_info where user_id=2;

insert into food_order values(7,'{Popcorn,Sandwich}','{2,2}');

insert into stadium values('Wankhede Stadium','Mumbai','Vinoo Mankad Rd, Church gate, Mumbai, Maharashtra 400020',1234567890);

insert into sportevent values('Wankhede Stadium','Cricket Match:India vs Australia','2018-09-20','10:14:12');

insert into sportevent values('Wankhede Stadium','Cricket Match:India vs Australia','2018-10-20','23:14:12');

SELECT TO_CHAR(() :: DATE, 'dd/mm/yyyy');

SELECT TO_CHAR(NOW() :: DATE, 'Mon dd, yyyy');
```