INTRODUCTION

1.1 Overview of database management system

A Database is a collection of related data organized in a way that data can be easily accessed, managed and updated. Any piece of information can be data, for example the name of your school. Database is actually a place where related pieces of information are stored, and various operations can be performed on it. A DBMS is a software that allows creation, definition and manipulation of databases. Dbms is actually a tool used to perform any kind of operation on data in a database. Dbms also provides protection and security to databases. It maintains data consistency in case of multiple users. Here are some examples of popular dbms, MySql, Oracle, Sybase, Microsoft Access and IBM DB2 etc.

1.2 Problem statement

Traditionally, planning a wedding has always been a long process which involves a lot of time, money, effort, stress and high risks. In modern society due to competitive vendors the wedding has become a fashion for both the couple and their parents [2]. Many brides do not want to take on the stress of planning and stage managing their own wedding. Wedding planners help by providing planning services up to the wedding and coordinating the event on the big day. A wedding planner is a professional who assists with the design, planning and management of a client's wedding. But their cost is very high, and the couple cannot afford it. They provide a key role in making sure that you enjoy your wedding day as you have dreamt of, and they will make sure that all things will go smoothly according to the plan [2]. But wedding planners give their own suggestions, and they control the couple's ideas with their own planning. They are ready to introduce their own dealers who provide commissions for them once the wedding planner will arrange clients. A wedding planner can charge a flat fee for services, tact a percentage on to the key wedding expenditures. Therefore, there is always a chance the couple will go over budget and not even realize it. Arranging bridal materials, making guest list and send the invitations are very challenging tasks but wedding planning applications make it too easy. On the wedding day there are a series of activities such as speeches, dances, family

pictures etc. to be done involving many guests but the couple does not have time to waste on finding the right guest for each activity. The proposed system has 'Task Management' function that assigns ownership of each task to the couple's family members and keeps track of their progress. It will help the wedding couple to enjoy the wedding day without any hassle.

1.3 Objectives

The "wedding event management" is a web-based platform that aims to help organize successful wedding events. The system assists the couples in the decision making and planning processes associated with all aspects of a wedding organization. The system offers features that the couples can retrieve information for wedding products and services as well as information of vendors in the shortest possible time. Also, vendors can gain benefit of getting more recognition from clients and generating more revenue. The proposed system has the ability to explore wedding goods/service suppliers (Vendors) across thirteen relevant categories and allow vendors to enter and manage all relevant information such as price, client list, models, previous work details, locations, exhibition details and more. Wedding couples have the ability to register themselves in the web application by entering the name of the bride, name of the groom, and date of wedding. Managing the guest list is another important task provided by the proposed system. Check who has already confirmed and who has not. Balancing the budget is one of the hardest aspects of planning a wedding. The wedding couple has no experience of dealing with paying vendor in the countdown to a wedding. Most couples have never thrown a celebration like a wedding before. Therefore, they do not know how to budget for a wedding [2]. The proposed system will help the wedding couple to figure out a budget for the event that is just right for them. It will also help them to stay within budget when planning their big day. So many things need to be done on the wedding and prior to this day. So planning is very important to make the wedding day special and memorable. The wedding checklist is generated for that. It helps to prepare for the big day without missing any of the bits and pieces that involved in planning

1.4 Dataset description

Venue Management System is an Online Venue management software project that serves the functionality of a Venue manager. The system allows only registered users to login and new users are allowed to register on the application. This is a web application, but desktop application of the

same application is also available. The project provides most of the basic functionality required for a Service. It allows the user to select from a list of event types. Once the user enters an event type e.g.(Marriage, Stage Show etc), the system then allows the user to select the date and time of event, place and the event equipment's. All this data is logged in the database and the user is setting up his username and password while registering. The data is then sent to the administrator (website owner) and they may interact with the client as per his requirements and his contact data stored in the database.

1. USER authentication

This module is mainly based on the user. The system will check the admin user ID and password for authentication. After the verification for authorization the user can be able to proceed with the process.

2. User registration

This module covers the details about the registration of users which they can register by itself by adding data like name, password, email id and further details. After registration they can sign in with their user ID and password.

3. Service booking

The User can book a service. The details to be entered are username (unique), service content, User ID and Event category. Service ID and Booking Date are automatically taken by the system.

4. Booking searching

In this module, the user can search for a service with its title and get its details.

5. User Searching and filtering users by Customer by Event

A User can be searched for with their username.

6. Service filter

A User can know the number of services given by an admin by category as expensive and affordable.

CHAPTER 2

SYSTEM REQUIREMENTS

2.1 Software and Hardware

Software Configuration:

Operating system: Windows 11, 64 bits

Front end: Html, CSS, JS

Server-side language: XAMPP

Back end: MySQL

Web server: Apache

Browser: Chrome, Brave

Application software: XAMPP

Hardware Configuration:

Processor: Ryzen 7

RAM: 8 GB

Hard disk: 1TB

SYSTEM DESIGN

3.1 ER Diagram

An entity-relationship diagram (ERD) is a data modeling technique that graphically illustrates an information system's entities and the relationships between those entities. An Entity Relationship Diagram contains different symbols and connectors that visualize two important information: The major entities within the system scope and the interrelationships among these entities.

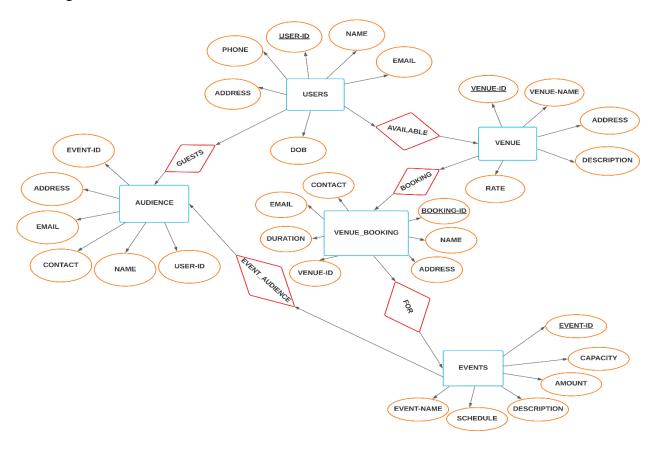


Fig 3.1 ER-Diagram

3.2 Schema Diagram:

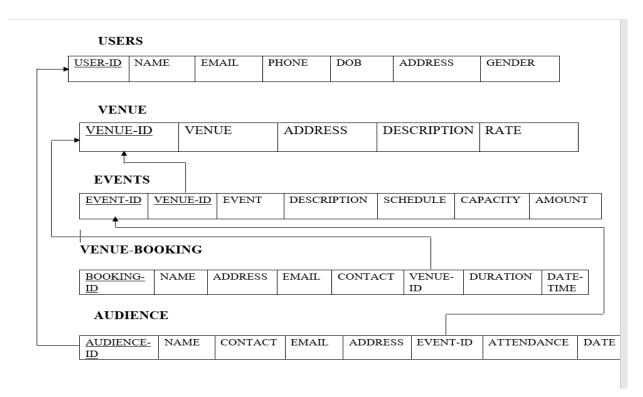


Fig 3.2 Schema Diagram

3.3 ER To Relational Mapping

Here is the process of mapping the given CREATE TABLE statements to an ER diagram using the seven-step ER mapping method:

- 1. Mapping of the entities: The entities in the given tables are "audience," "events," "users," "venue," and "venue_booking."
- 2. Mapping of weak entity: My Database doesn't have any weak entity types.
- 3. users->audience in (1:1) Only users can be guests in the event.
- 4. Mapping of 1:N relationships: I have used the foreign key approach. Foreign Key of user_id users-> venue by (1: N) Many users can select one venue. venue->venue-booking for (1: N) Many persons can book for one venue. venue-booking->events (N:1) Many venues can be booked for one event. events ->audience of (N:1) One events can attend many events.

- 5. Mapping of binary M:N relationship: My database doesn't have any weak entity types so no mapping required.
- 6. Mapping of multivalued attributes: My database doesn't have any weak entity types so no mapping required.
- 7. Mapping of N-ary relatioships: My database doesn't have any weak entity types so no mapping required.

3.4 Overview of GUI:

This is the LOGIN PAGE

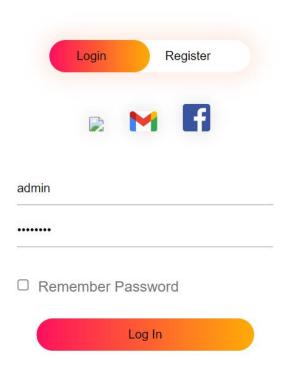


Fig 3.4.1 Login Page

This is the REGISTER PAGE



Fig 3.4.2 Register Page

The HOME PAGE

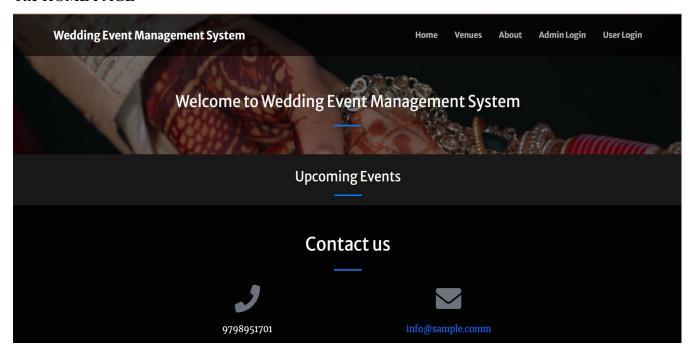


Fig 3.4.3 Home Page

The VENUE PAGE

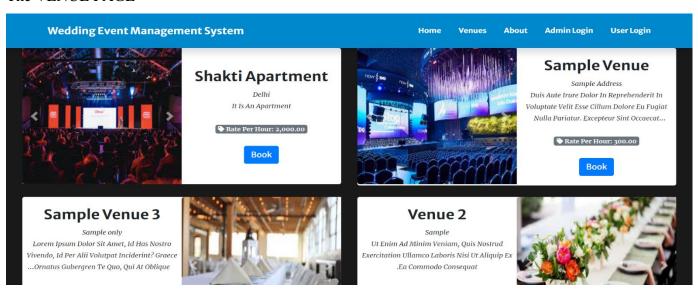


Fig 3.4.4 Venue Page

The ADMIN PAGE

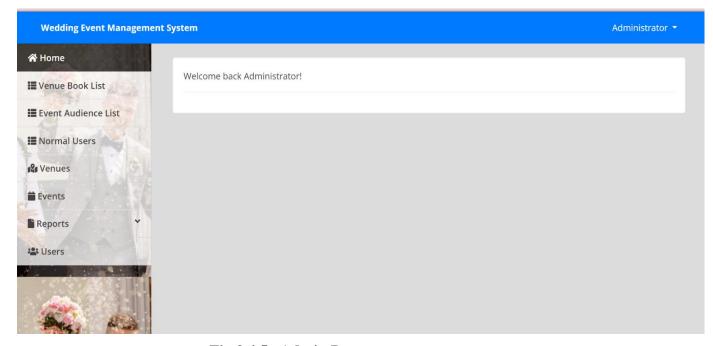


Fig 3.4.5 Admin Page

3.5 Normalization

Normalization is the process of analyzing the given relation schema based on their functional dependencies and primary key to achieve the desirable properties of minimizing redundancy and minimizing insert, delete and update anomalies. The normal form of a relation refers to the highest normal condition that it meets, and hence the degree to which it has been normalized.

Normalization rules are divided into the following forms:

- 1. First Normal Form(1NF)
- 2. Second Normal Form(2NF)
- 3. Third Normal Form(3NF)
- 4. Boyce-Codd Normal Form

INITIAL STEP:

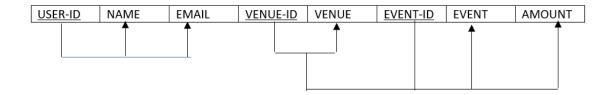


Fig 3.5.1 Normalizing Table

1NF:

Audience:(id (Primary Key), name, contact, email, address, event_id (Foreign Key), payment_status, attendance_status, status, date_created)

Events:(id (Primary Key), venue_id (Foreign Key), event, description, schedule, type, audience_capacity, payment_type, amount, banner, date_created)

Venue:(id (Primary Key), venue, address, description, rate)

Venue_booking:(id (Primary Key), name, address, email, contact, venue_id (Foreign Key), duration, datetime, status)

Users:(id (Primary Key), name, username, password, type

2NF:

Audience:(id (Primary Key), name, contact, email, address_id (Foreign Key), event_id (Foreign Key), payment_status, attendance_status, status, date_created)

Events:(id (Primary Key), venue_id (Foreign Key), event_description, schedule, type, audience_capacity, payment_type, amount, banner, date_created)

Venue:(id (Primary Key), venue, address_id (Foreign Key), description, rate)

Address:(id (Primary Key), address, city, state, zip, country)

Venue_booking:(id (Primary Key), name, address_id (Foreign Key), email, contact,

venue_id(Foreign Key), duration, datetime, status)

Users:(id (Primary Key), name, username, password, type)

3NF:

Audience:(id (Primary Key), name, contact_id (Foreign Key), event_id (Foreign Key),

payment_status, attendance_status, status, date_created)

Events:(id (Primary Key), venue_id (Foreign Key), event_type_id (Foreign Key), schedule,

audience_capacity, amount, banner, date_created)

Venue:(id (Primary Key), venue, address_id (Foreign Key), description, rate)

Address:(id (Primary Key), address, city, state, zip, country)

Event_type:(id (Primary Key), event, description, type, payment_type)

Venue_booking:(id (Primary Key), contact_id (Foreign Key), venue_id (Foreign Key), duration,

datetime, status)

Contact:(id (Primary Key), name, email. address_id (Foreign Key))

Users:(id (Primary Key), name, username, password, type)

FINAL DECOMPOSITION:

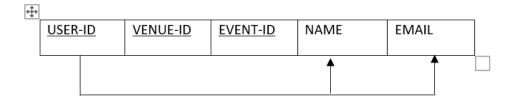


Fig 3.5.2 First Table



Fig 3.5.3 Second Table



Fig 3.5.4 Third Table

IMPLEMENTATION

4.1 Table Creation:

AUDIENCE

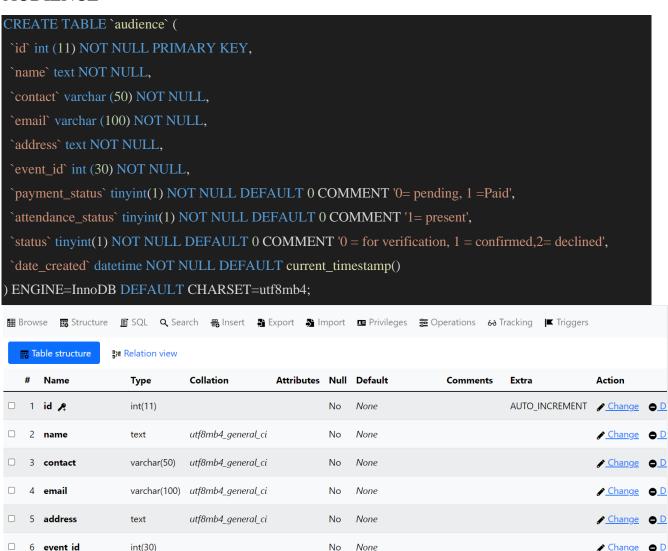


Fig 4.1.1 Audience Table

0= pending,

1= present

1 =Paid

No

No 0

0 No

7 payment_status

2 **ttendance_status tinyint(1)

tinyint(1)

EVENTS

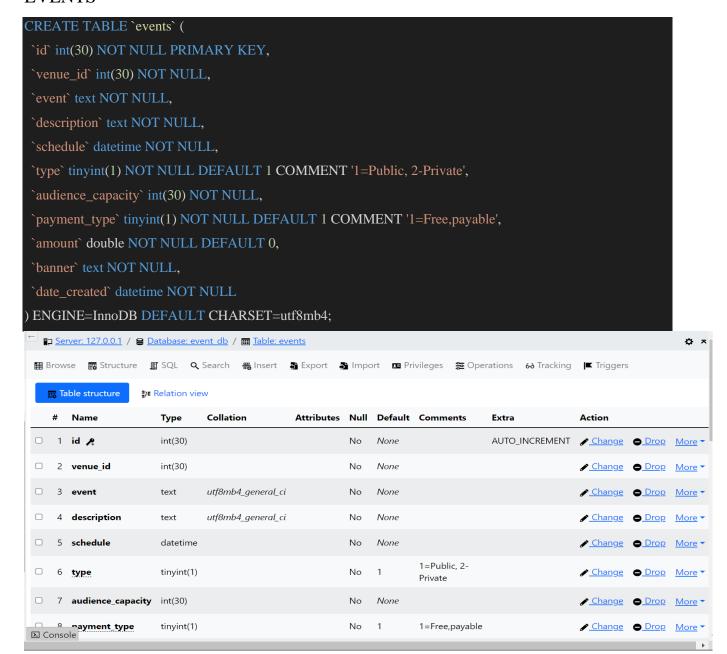


Fig 4.1.2 Events Table

VENUE



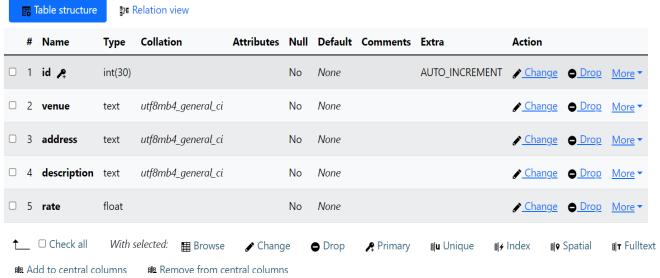


Fig 4.1.3 Venue Table

VENUE-BOOKING

```
CREATE TABLE `venue_booking` (
   `id` int(30) NOT NULL PRIMARY KEY,
   `name` text NOT NULL,
   `address` text NOT NULL,
   `email` varchar(100) NOT NULL,
   `contact` varchar(100) NOT NULL,
   `venue_id` int(30) NOT NULL,
   `duration` varchar(100) NOT NULL,
   `datetime` datetime NOT NULL,
   `status` tinyint(1) NOT NULL DEFAULT 0 COMMENT '0-for verification,1=confirmed,2=canceled'
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

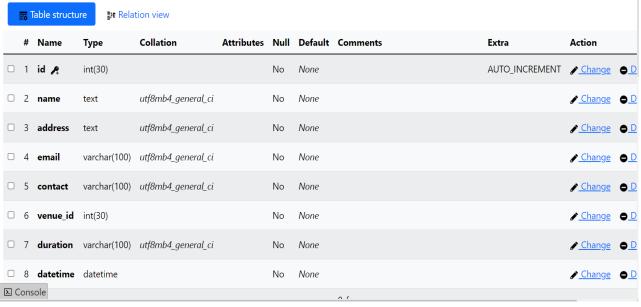


Fig 4.1.4 Venue Booking Table

USERS

```
CREATE TABLE `users` (
   `id` int(30) NOT NULL PRIMARY KEY,
   `name` text NOT NULL,
   `username` varchar(200) NOT NULL,
   `password` text NOT NULL, `type` tinyint(1) NOT NULL DEFAULT 2 COMMENT '1=Admin,2=Staff')
```

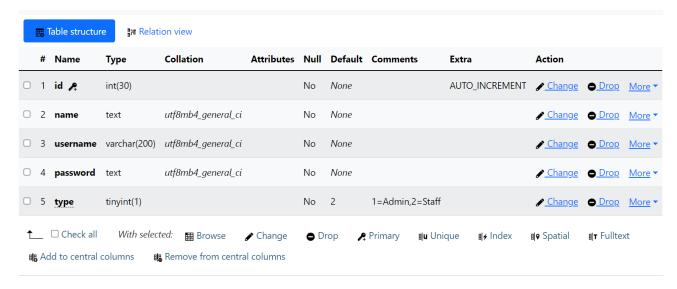


Fig 4.1.5 Users Table

4.2 Description of Table:

Audience:

It contains the list of audience who booked for the events or they are invited in the wedding. Which make it easier to keep the track of guests and also keep the counts of guests in the events.

Events:

It contains the description of events, event name, and event venue. It can help to keep track to the guests who are participating in various wedding events and also notify them.

Venue:

It contains the description of the available venues. And venue name so that it is easier to be booked by the users itself.

Venue-Booking:

It contains the users description who has booked which venue at what date and duration of the booking with date to be booked.

Normal Users:

It contains the description of normal users who are logged in and can book venues and can see the upcoming respective events.

4.3 Populated Tables:

Insert into Venue-Booking

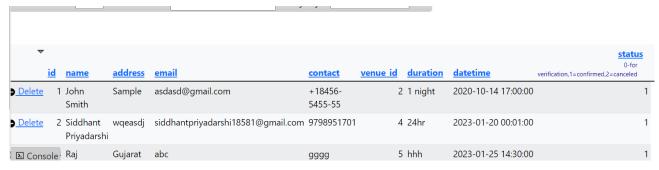


Fig 4.3.1 Venue Booking Values

Insert into Event Audience List

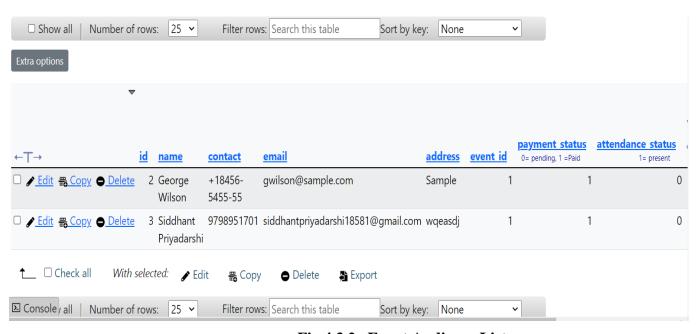


Fig 4.3.2 Event Audience List

Insert into Venue

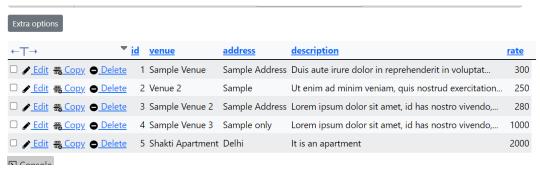


Fig 4.3.3 Venue List

Insert into Events

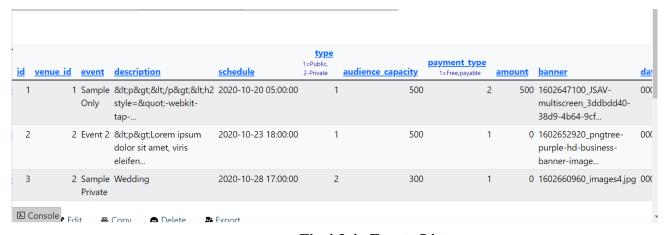


Fig 4.3.4 Events List

Insert into normal users

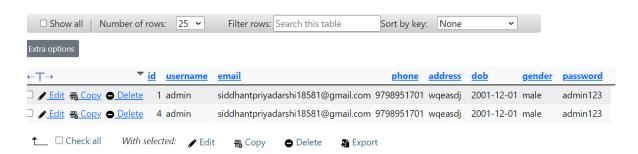


Fig 4.3.5 Normal Users List

4.4 SQL Triggers

Trigger

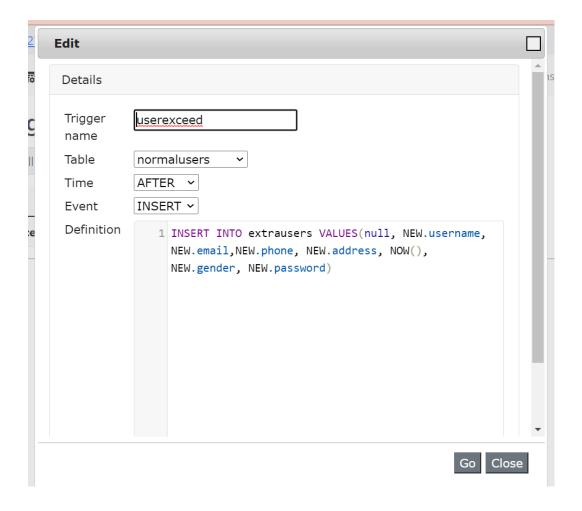


Fig 4.4.1 SQL Triggers

Stored Procedure

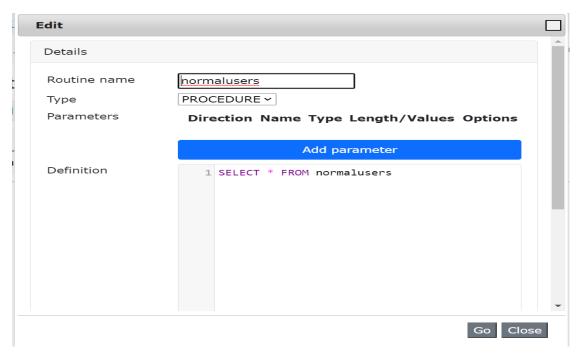


Fig 4.4.2 Stored Procedure

4.5 Database Connectivity:

```
$servername="localhost";

$username="root";

$password="";

$database_name="event_db";

$conn=mysqli_connect($servername,$username, $password,$database_name);

//now check the connection

if(!$conn){
    die("Connection failed:" . mysqli_connect_error());
}
```

4.6 Modules:

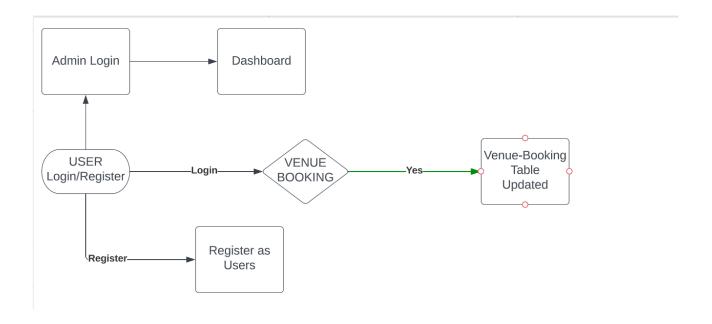


Fig 4.6 Workflow Model

RESULT

This chapter contains GUI built using CSS and HTML. The screenshots contains various html pages. Login page: Figure 5.1 represents page that we get when we run the index.php.

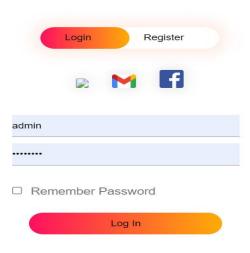


Fig 5.1 Login Page Interface

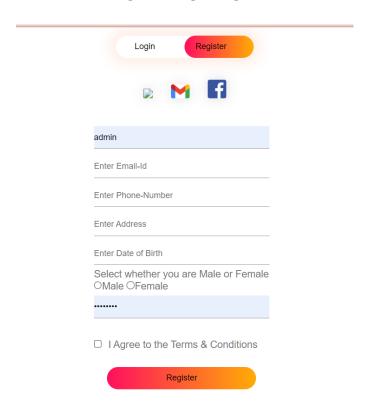


Fig 5.2 Register Page Interface

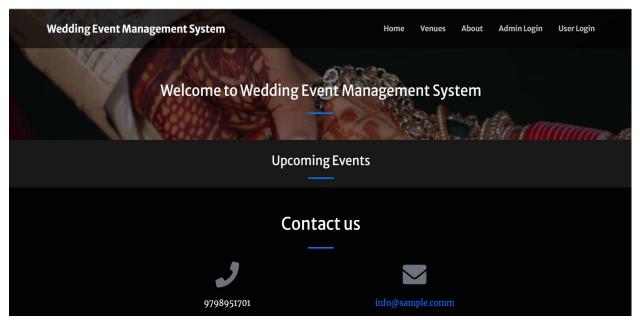


Fig 5.3 Home Page Interface

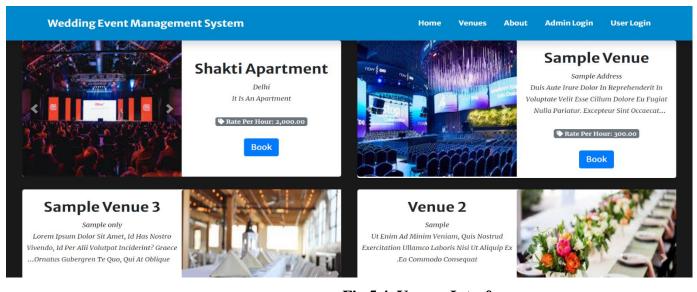


Fig 5.4 Venues Interface

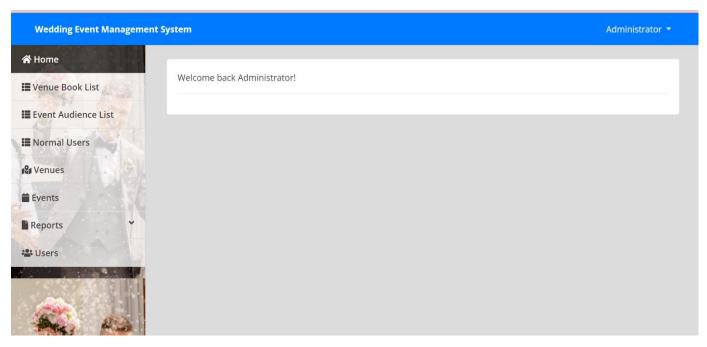


Fig 5.5 Admin Page Interface

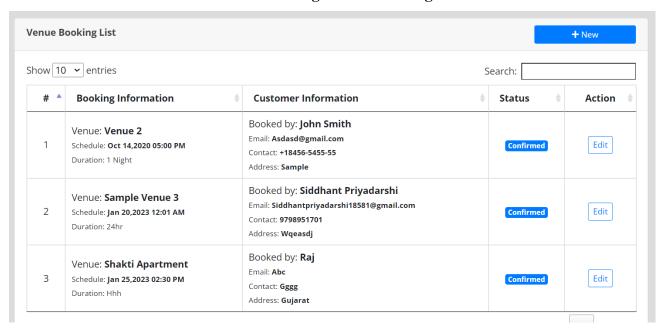


Fig 5.6 Venue Booking List Interface

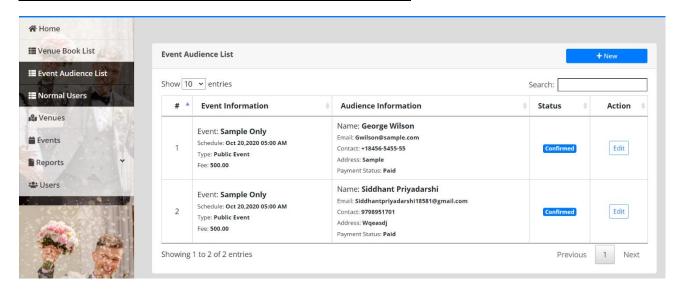


Fig 5.7 Event Audience List Interface

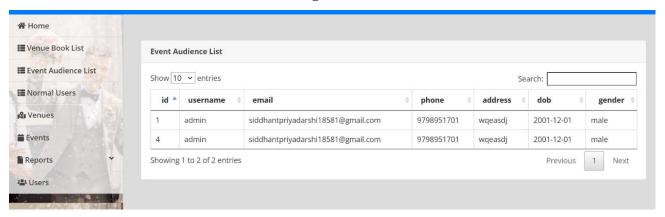


Fig 5.8 Users Interface

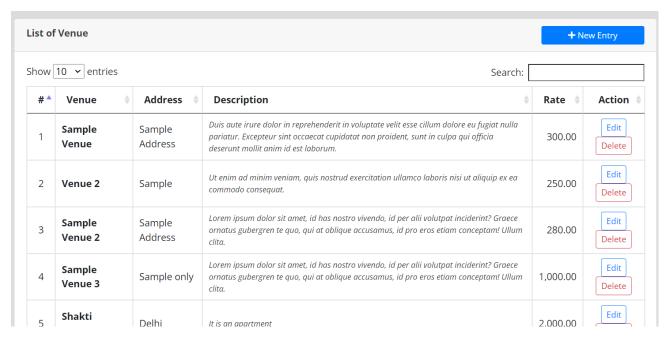


Fig 5.9 Venue List Interface

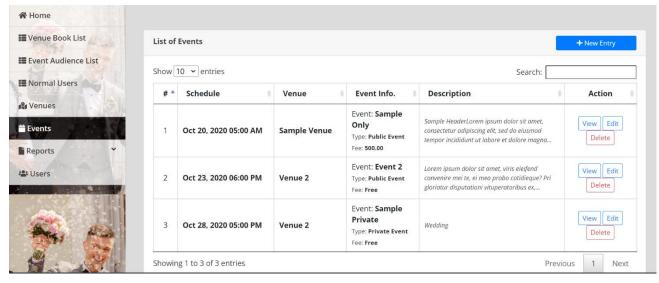


Fig 5.10 Events List Interface

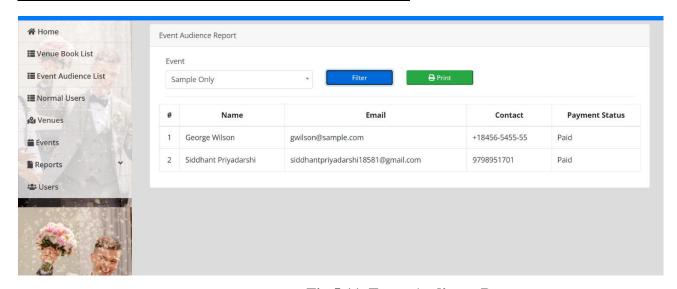


Fig 5.11 Event Audience Report

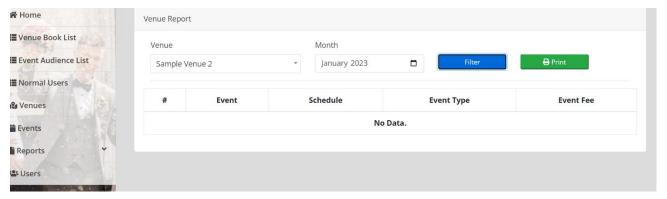


Fig 5.12 Venue Report Interface

CONCLUSION & FUTURE ENHANCEMENTS

It is worth mentioning that this project is open for future enhancement. Additional features like a display of all blogs. More categories to post on, images and videos added to the blogs can be added. Further enhancements can be made to the project, so that the website functions in a very attractive and useful manner than the present one. It is concluded that the application works well and satisfy the needs. The application is tested very well and errors are properly debugged. It also acts as the sharing of files to the valuable resources.