INSTITUTE FOR ADVANCED COMPUTING AND SOFTWARE DEVELOPMENT AKURDI, PUNE

Documentation On

"EVENT MANAGEMENT SYSTEM"

PG-DAC SEPT 2021

Submitted By:

Group No: 75

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1. Introduction

Document Purpose :

This document contains the complete software requirements for Event Management System and describe the design decisions, architectural design needed to implement the system. It provides the visibility in design and provide
information needed for software support. It will provide the clients of the firm with an easy-to-use platform for communicating with the organizers and also reducing the firm's labor load. Our purpose is to override the problems prevailing in the practicing manual system and provide OUR clients with a system which will link them to their account, store and categorize their orders so they can function efficiently and provide their best service.

Our Management System is not only digitalizing the booking of orders providing ease of access to the customers, but will also digitalize the firm's functionalities such as adding/removing employees, vendors etc. In short, our management system will digitalize the whole firm along with its jobs.

Problem Statement :

The scope of our EMS is to automate the existing manual system by the help of computerized equipment and a software that is fulfilling their requirements so their information can be stored for a longer period along with ease of access to that information. It manages the details of events, organizers, attendees, payments etc. The EMS is built at administrative access, hence only the manager is guaranteed the access to information mentioned above whereas the customer has access to only his/her information (limited access). Similarly, customers would also be benefitted as he/she can access this software from anywhere, as to access it the only requirement is having an internet connection.

Product Scope :

This project traverses a lot of areas ranging from business concept to computing field, and required to perform several researches to be able to achieve the project objectives. The area covers include:

- Events Management industry: This includes study on how the Event Management work actually is being done, process involved and opportunity that exist for

improvement.

- J2EE Technology used for the development of the application.
- Event Planners and Clients will be able to use the system effectively.
- Web-platform means that the system will be available for access 24/7 except when there is a temporary server issue which is expected to be minimal.

Aims & Objectives :

Specific goals are: -

- To produce a web-based system that allow the admin to add different Vendors and Employee's and provide functionalities to its role.
- To ease Clients by providing different functionalities for Event Booking.
- To ease Managers to assign different tasks to Employees and track work efficiently.

2. Overall Description

Product Perspective :

This EMS Established the link between all the firms of the system which are part of that specific event and to assign the works/tasks as well as provide all the information of their work to all Employees and getting work updates from them to record the progress of the event.

An admin has all permission to check all the event details as well as assign the manager and employees to specific events and maintain or manage all events easily from anywhere.

And provide the all information and progress of the event to the customer with the user-friendly interface and booking of event required services according to his/her choice.

Proposed System :

The EMS application allows the customer to book the required Services according to there requirements and after that admin assign the group of employees according to the event and book media, catering etc. for the events according to the customer booking manager manage and assign task to the employees and update the progress report and notify all the progress updates to admin and customer the whole application is online so that customer can see his/her event progress from anywhere anytime.

The main goal is to provide all the event related facilities to the customer in one application.

Benefits of Event Management System :

- This Online Event Management solution is fully functional and flexible.
- It is very easy to use.
- This Online Event Management System helps in back office administration by streamlining and standardizing the procedures.
- It saves a lot of time, money and labour.
- Eco-friendly: The monitoring of the Event Management and the overall business becomes easy and includes least paper work.
- The application acts as an office that is open 24/7.
- It increases the efficiency of management at offering quality services to the customers.

Users and Characteristics :

Admin :

- Admin can view/edit the events created by a customer.
- Admin can add/delete an Employee/Manager/Admin of his firm.
- Admin can view/add all the vendors that are affiliated with the firm.
- Admin can assign Managers to the event.
- Admin can Approve Events.
- Admin can view all the Customers.

Manager:

- Manager can view/edit the events assigned to him.
- Manager can add/delete an Employee/Manager of his firm.
- Manager can view all the vendors that are affiliated with the firm.
- Manager can assign Employee to the event.
- Manager can Approve Events.
- Manager can assign tasks to Employees.
- Manager can assign Caterer and Studio to Event.

Employee:

- Employee can login to the system.
- Employee can view the events assigned to him.
- Employee can view and update status of tasks assigned to him.

Customer:

- Customer can Register/login to the system.
- Customer can book/view/edit events.

Operating Environment :

Server Side:

Processor: Intel® Xeon® processor 3500 series

HDD: Minimum 500GB Disk Space

RAM: Minimum 4GB

OS: Windows 10, Linux 6

Database: Mysql

Client Side (minimum requirement):

Processor: Intel Dual Core

HDD: Minimum 80GB Disk Space

RAM: Minimum 1GB

OS: Windows 8 and above, Linux

Design and Implementation Constraints :

- The application will use React, JavaScript, and CSS as main web technologies.
- HTTP and FTP protocols are used as communication protocols. FTP is used to upload the web application in live domain and the client can access it via HTTP protocol.
- Several types of validations make this web application a secured one.
- Since Event Management System is a web-based application, internet connection must be established.

3. Specific Requirement

External Interface Requirements :

User Interfaces:

- All the users will see the same page when they enter in this website. This page asks the users a username and a password.
- After being authenticated by correct username and password, user will be redirect to their corresponding profile where they can do various activities.
- The user interface will be simple and consistence, using terminology commonly understood by intended users of the system. The system will have simple interface, consistence with standard interface, to eliminate need for user training of infrequent users.

Hardware Interfaces:

- No extra hardware interfaces are needed.
- The system will use the standard hardware and data communication resources.
- This includes, but not limited to, general network connection at the server/hosting site, network server and network management tools.

Application Interfaces:

OS: Windows 10, Linux

Web Browser: The system is a web-based application; clients need a modern web browser such as Mozilla Firebox, Internet Explorer, Opera, and Chrome. The computer must have an Internet connection in order to be able to access the system.

Communications Interfaces:

- This system uses communication resources which includes but not limited to, HTTP protocol for communication with the web browser and web server and TCP/IP network protocol with HTTP protocol.
- This application will communicate with the database that holds all the booking

information. Users can contact with server side through HTTP protocol by means of a function that is called HTTP Service. This function allows the application to use the data retrieved by server to fulfil the request fired by the user.

Functional Requirement :

1. Add/Delete Client Orders:
   The system provides this facility to the manager and customer both. Customer can add his/her order whereas manager can add, view and delete customers' orders.

2. Create/Edit/Delete Client Account:
   Customer can create and edit his/her account details, whereas the manager can delete customers' account, along with editing and viewing it.

3. View Services:
   Customer has an option to view the list of services offered by the firm.
4. Cancel Bookings:
   Manager can cancel any customer's booking.

5. Data Entry to Database:
   All of the data inserted into the system is stored into a database in the backend. The database that we used for this project is "MySQL".

6. Customized Catering Menu:
   Customer is able to create a custom menu depending on his/her preferences.

7. Customized Media Services:
   Customers are able to customize their media requirements.

8. Generate Event ID:
   A unique id is allocated to each event in order to access it easily.

9. Generate Customer ID:
   Each customer will be assigned a unique id associated with his/her email address.

10. Generate Employee ID:
    Each employee will be assigned a unique id associated with his/her email address.

11. Generate Catering ID:
    A unique id is associated with each caterer (vendor) to access their information from the database.

12. Generate Media ID:
    A unique id is associated with each media requirement in the database for ease of access.

13. Generate Menu ID:
    A unique id is associated with each menu in the database for ease of access.

14. Generate Studio ID:
    A unique id is associated with each studio in the database for ease of access.

15. Generate Venue ID:
    A unique id is associated with each venue in the database for ease of access.

16. Generate Total Bill:
    In the end a total bill will be computed from all the choices selected by the customer inclusive of taxes and this bill will be displayed on the screen which the user can print.

17. Enter Payment Details:
    Customer will be asked to enter payment details after selecting payment option.

18. Order Confirmation:
    This screen will be displayed showing that the order has been confirmed and awaiting approval.

19. Book Event:
    Customers can book events as per his/her requirements.

20. Add/Remove Employee:
    Manager will have the facility to add or remove an employee from the database.

21. Approve/Deny Order:
    All the confirmed orders will need to be approved by the manager.

22. Add/Remove Vendors:
    Manager has the facility to add or remove a vendor (caterer or studio).

23. View Orders:
    Customer is able to view his order. Moreover, manager can view a particular order and he/she can view all orders too.

24. Client Sign In:
    When a customer signs in, his/her credentials are verified from the database and then allowed access into the system.

25. Error Alarms:
    Whenever there is an error, a notification beep will be played to gain the user's attention followed by an error popup.

26. Sign Out:
    When a user clicks "Sign Out" button, they are logged out of the system and the flow returns back to the main menu screen

Non-Functional Requirement :

- Minimal Interface:
  Interface should be simple and easy for users to adapt to.
- Performance:
  System should be fast and responsive, with as minimal lag as possible.
- Portability:
  There should be abstraction between the application logic and the system interface – system should be modular
- Reliability:
  System should be stable, not prone to crashes. User should expect to have a consistent experience every time they use it.
- Scalability:
  System should be extendable if required, and adapt to greater number of users. It should be open for more functionalities to be added if required.
- Security:
  User data and/or other private details must be kept confidential and only visible to those authorized to view them.

- Data Integrity:

  Data stored should not be compromised, and should be accurate and reliable.

4. System Diagram

Activity Diagrams :

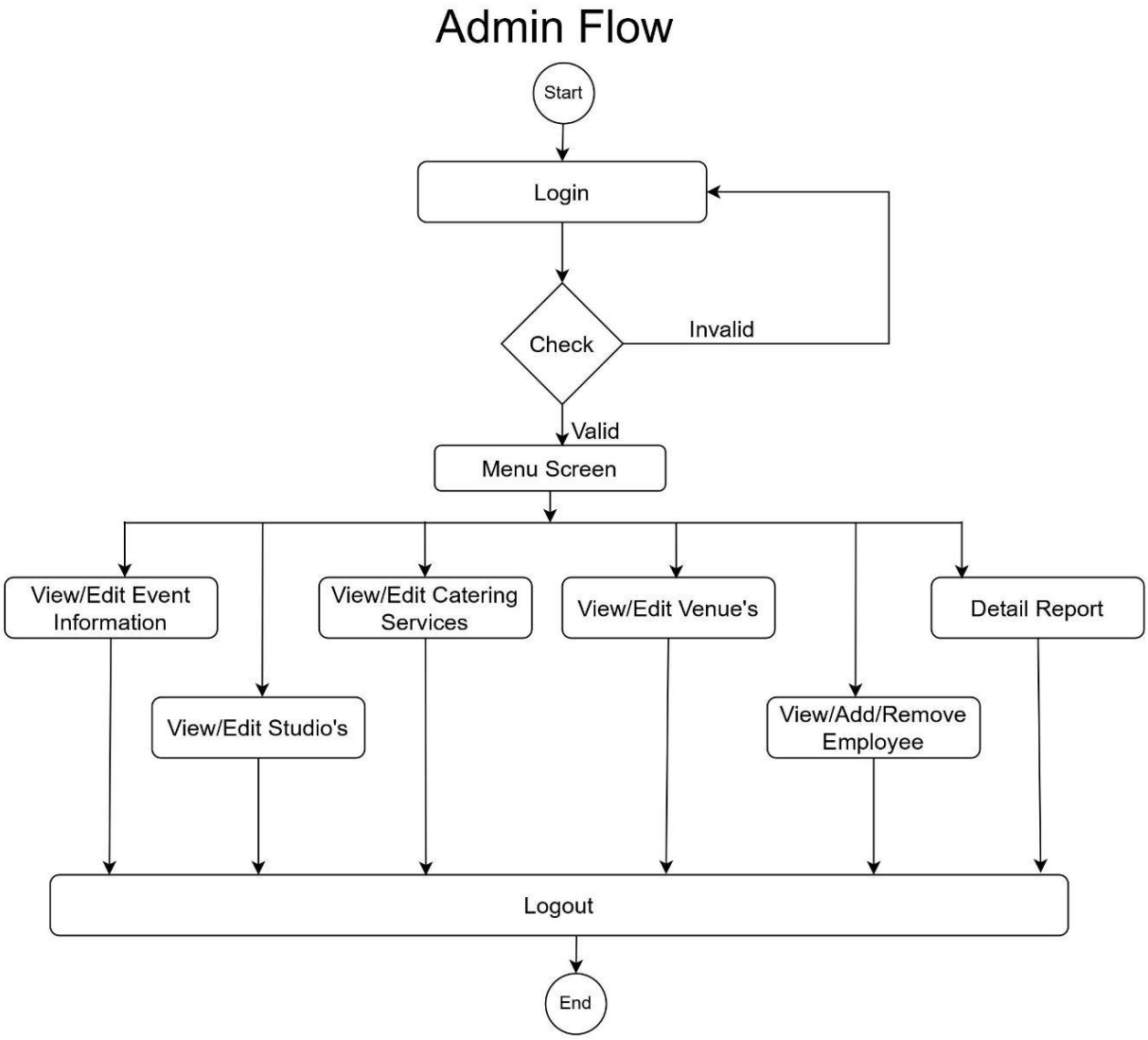

Figure 1: Admin Activity Diagram

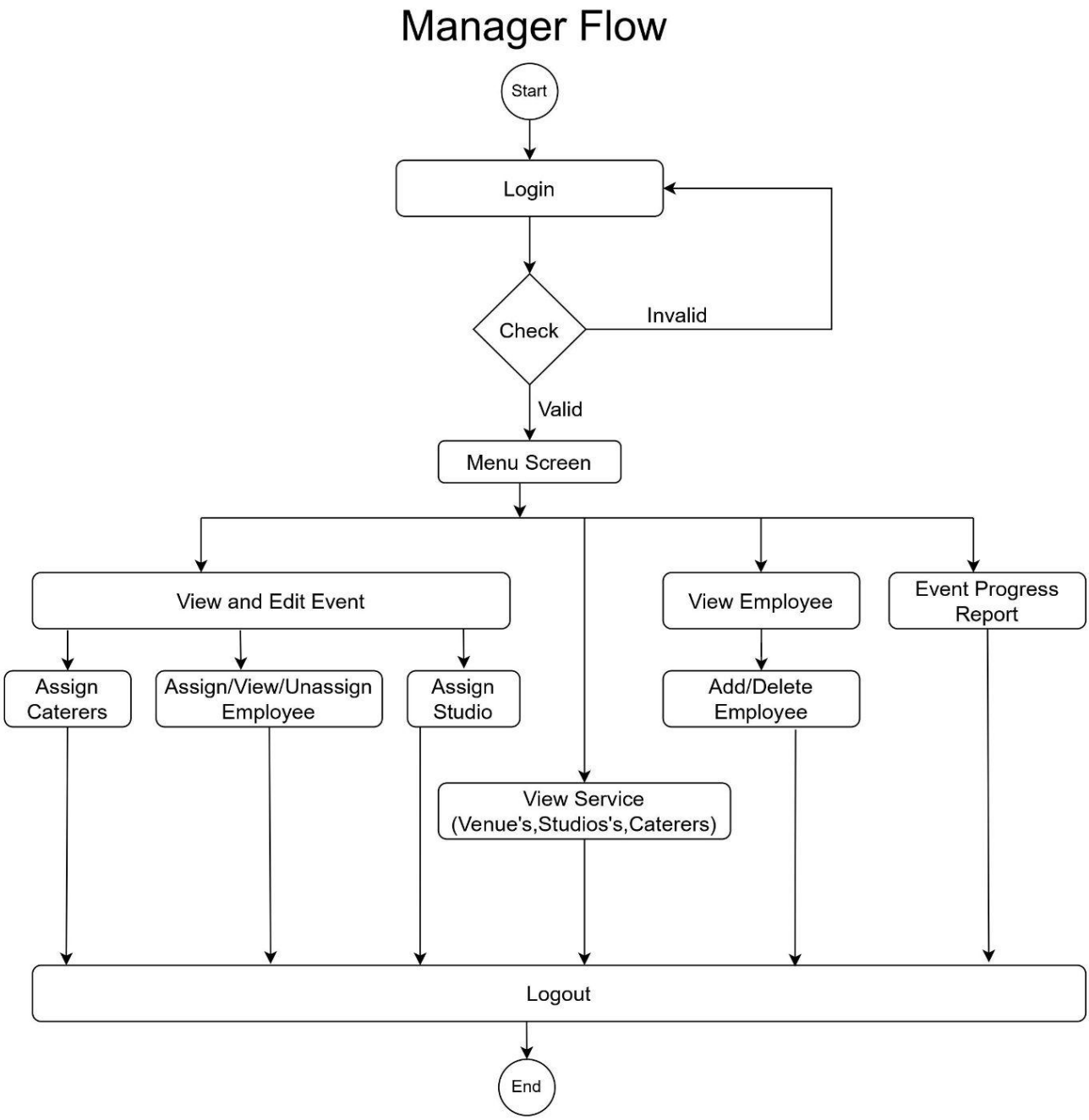

Figure 2: Manager Activity Diagram

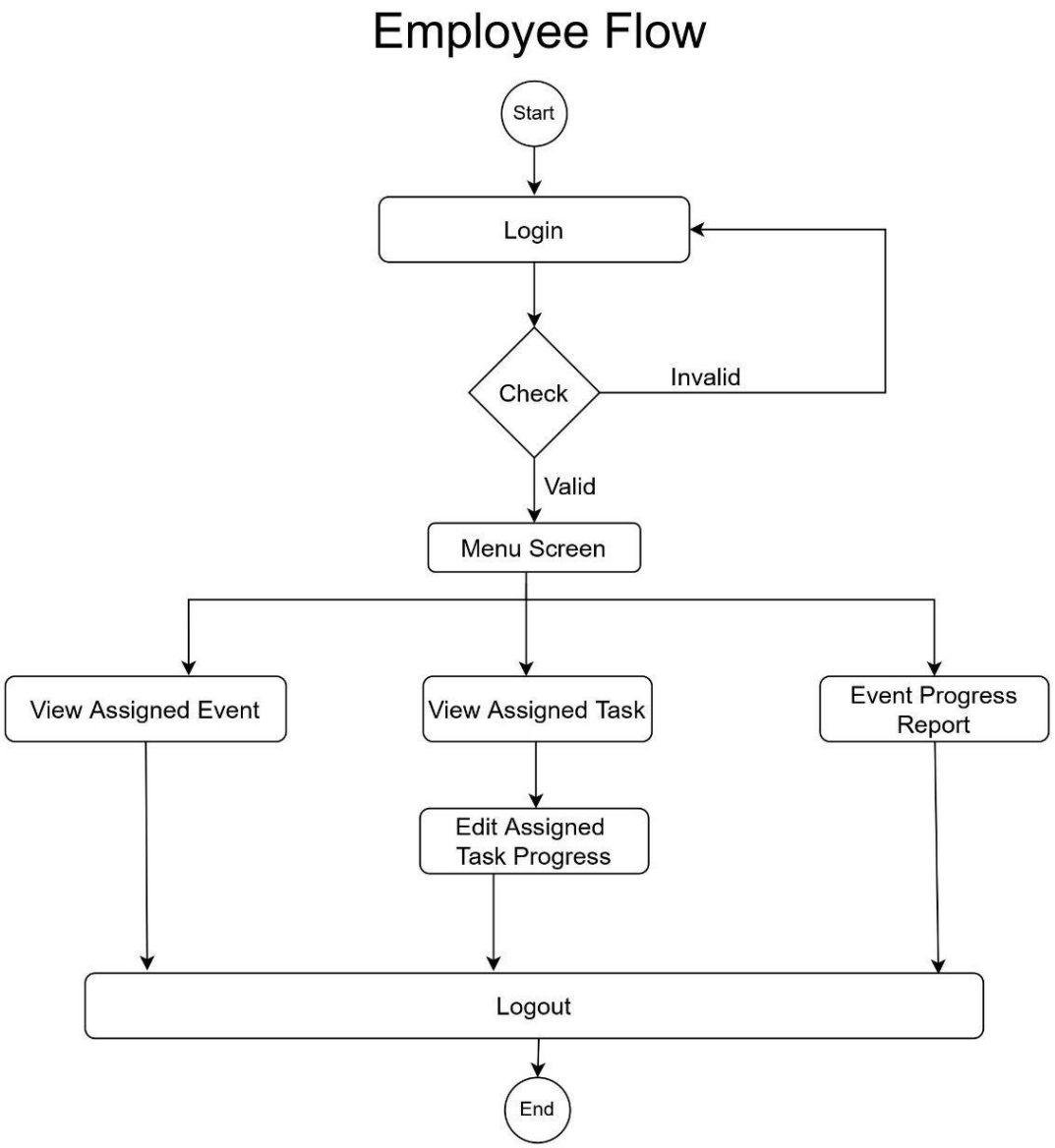

Figure 3: Employee Activity Diagram

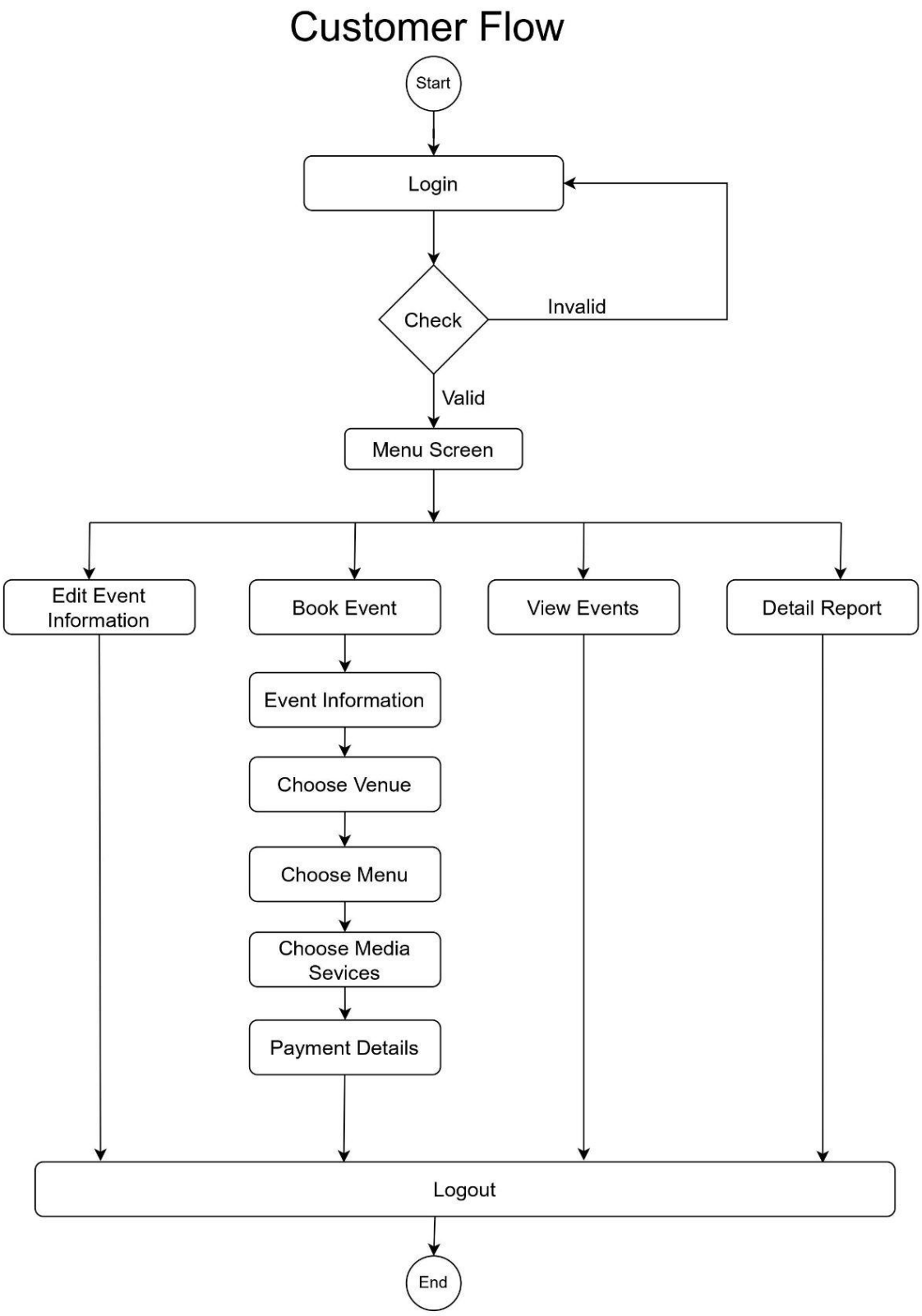

Figure 4: Customer Activity Diagram

Data Flow Diagram :

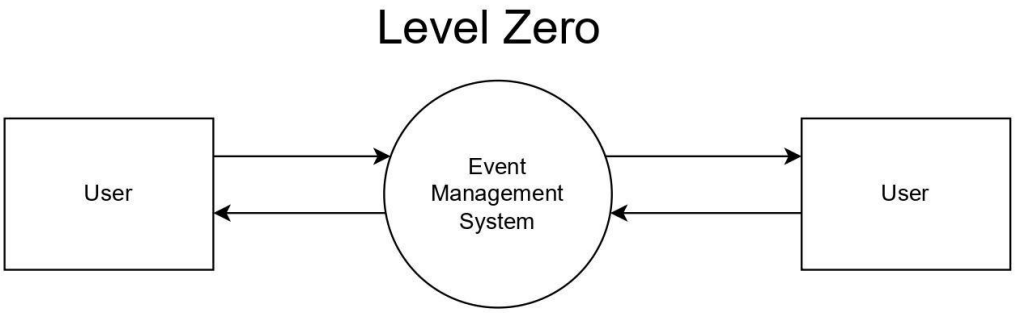

Figure 5: Level 0 Data Flow Diagram

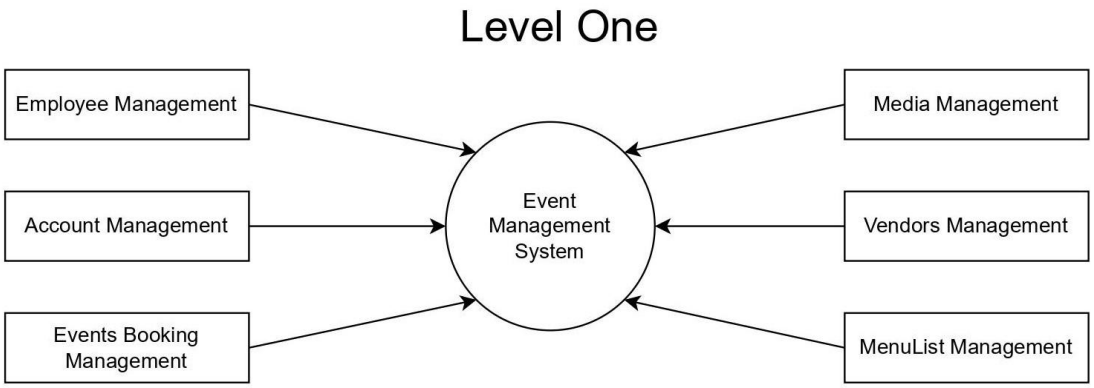

Figure 6: Level 1 Data Flow Diagram

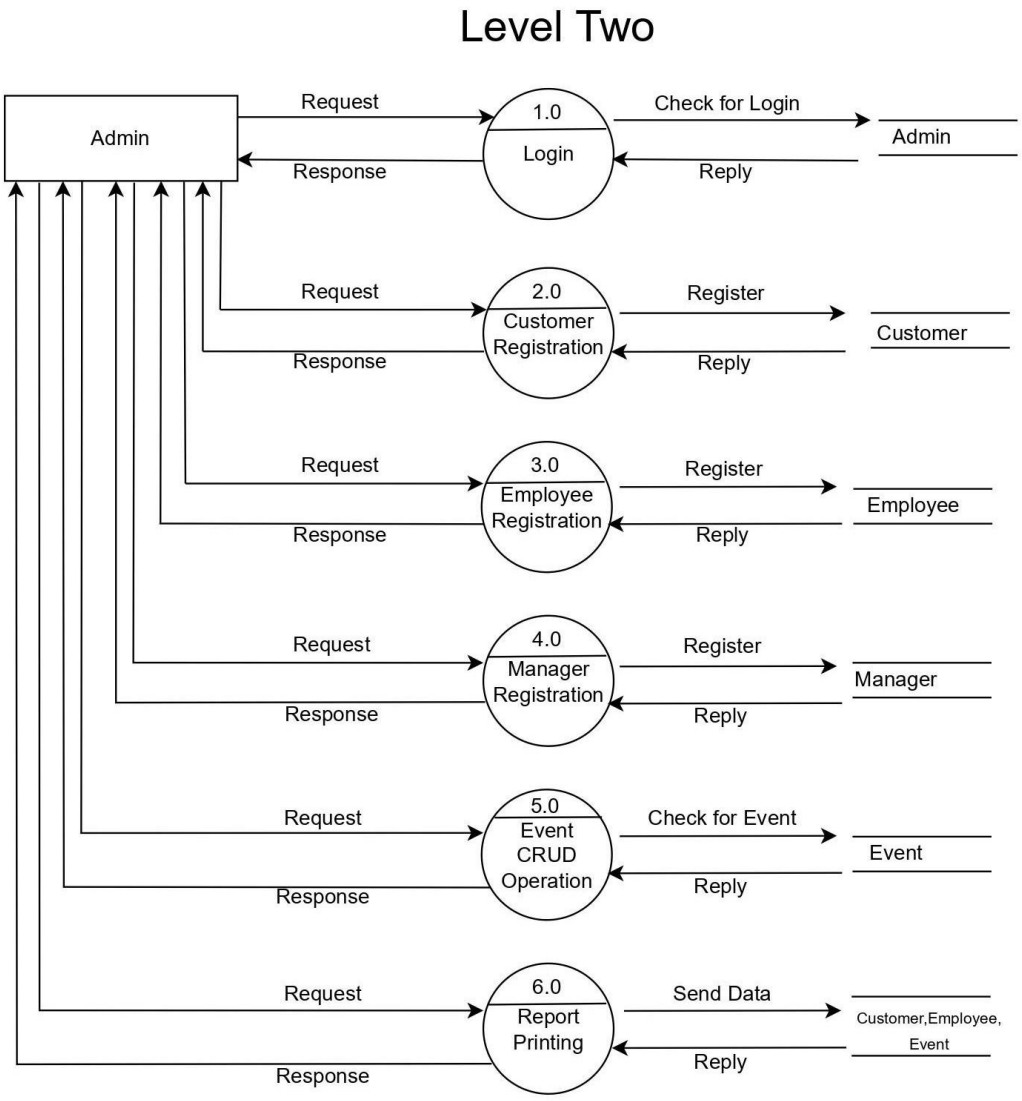

Figure 7: Level 2 Data Flow Diagram

Class Diagram :

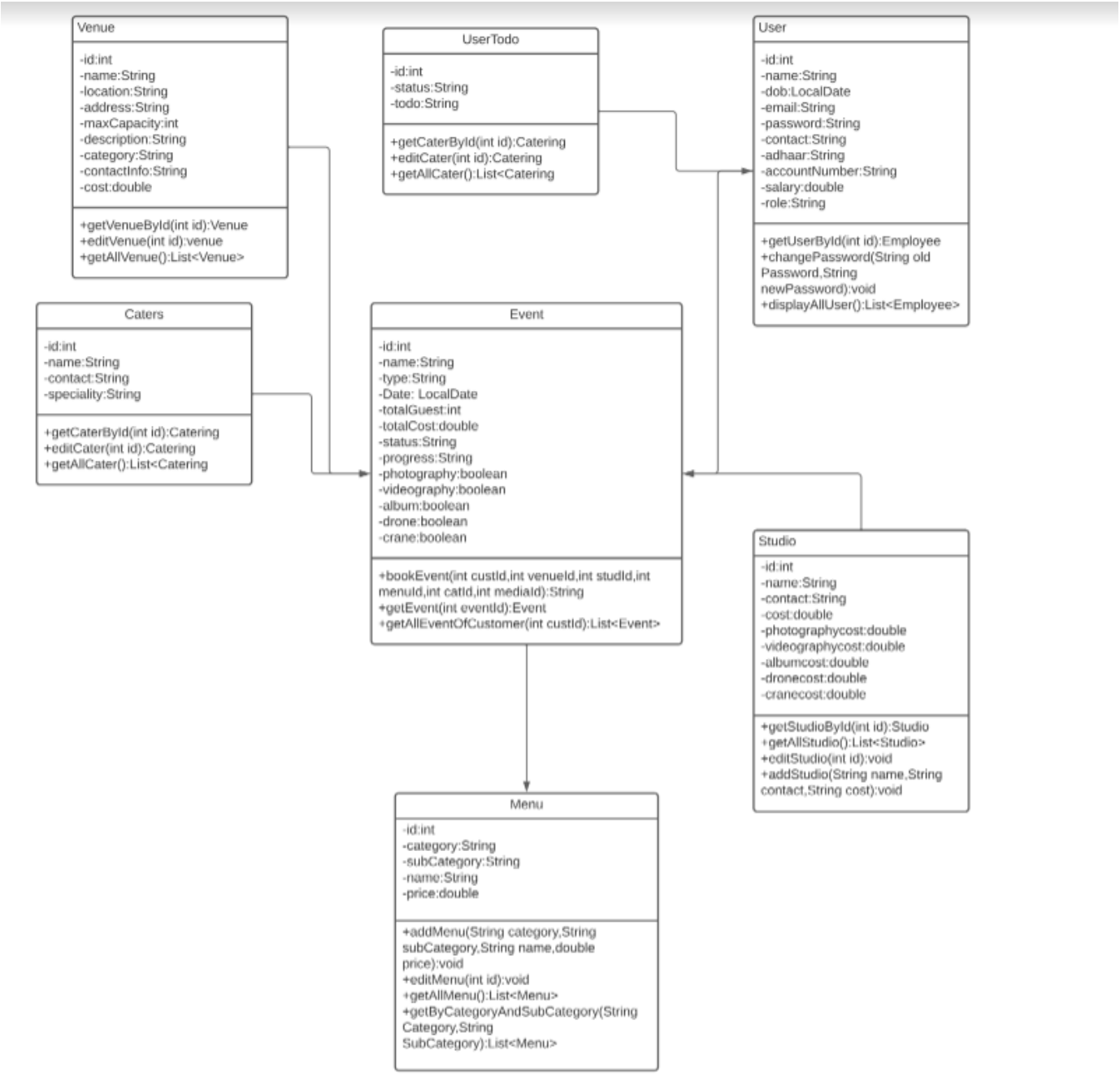

Figure 8: Class Diagram

Use Case Diagram :

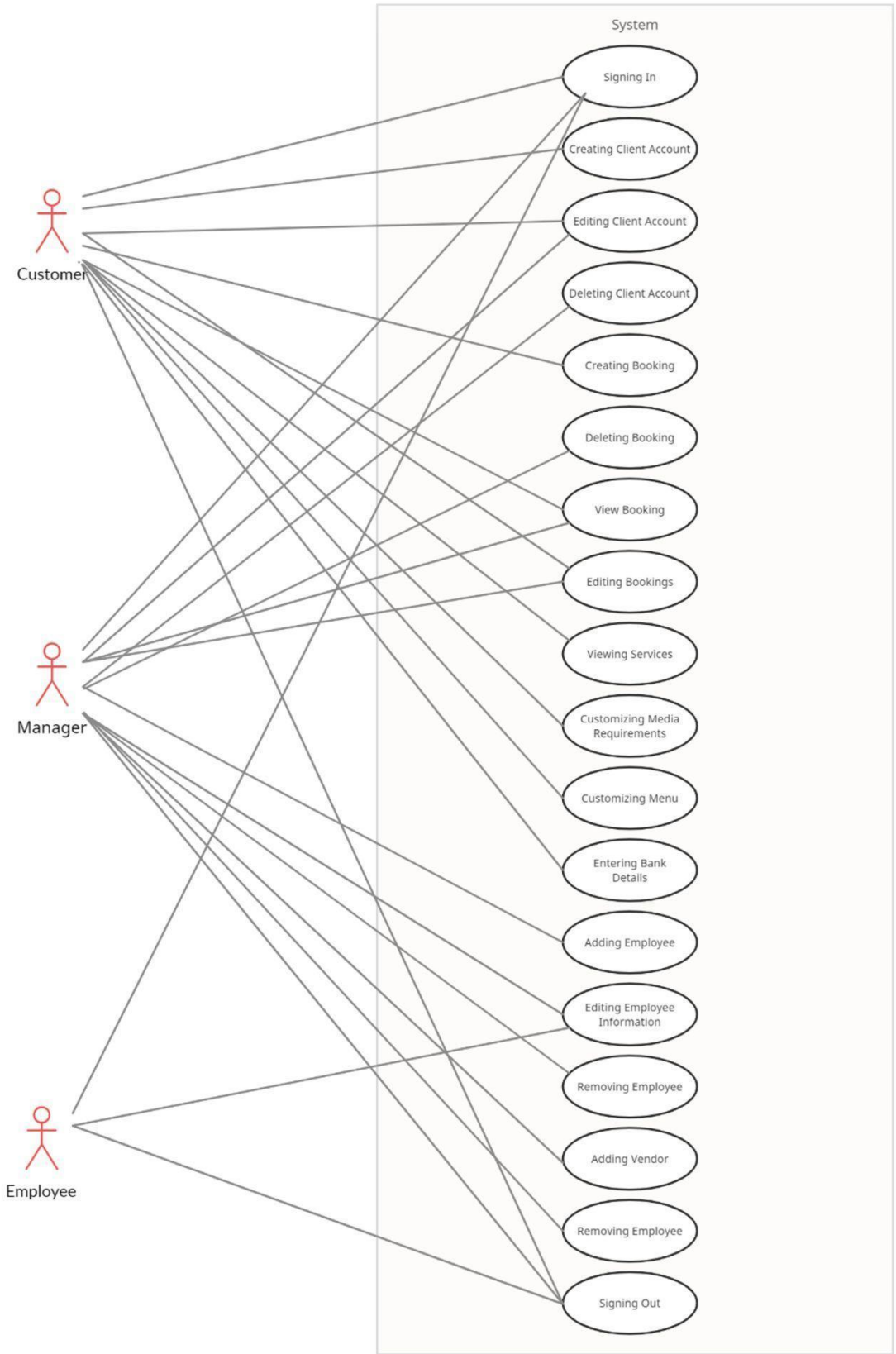

Figure 9: Use Case Diagram

ER Diagram :

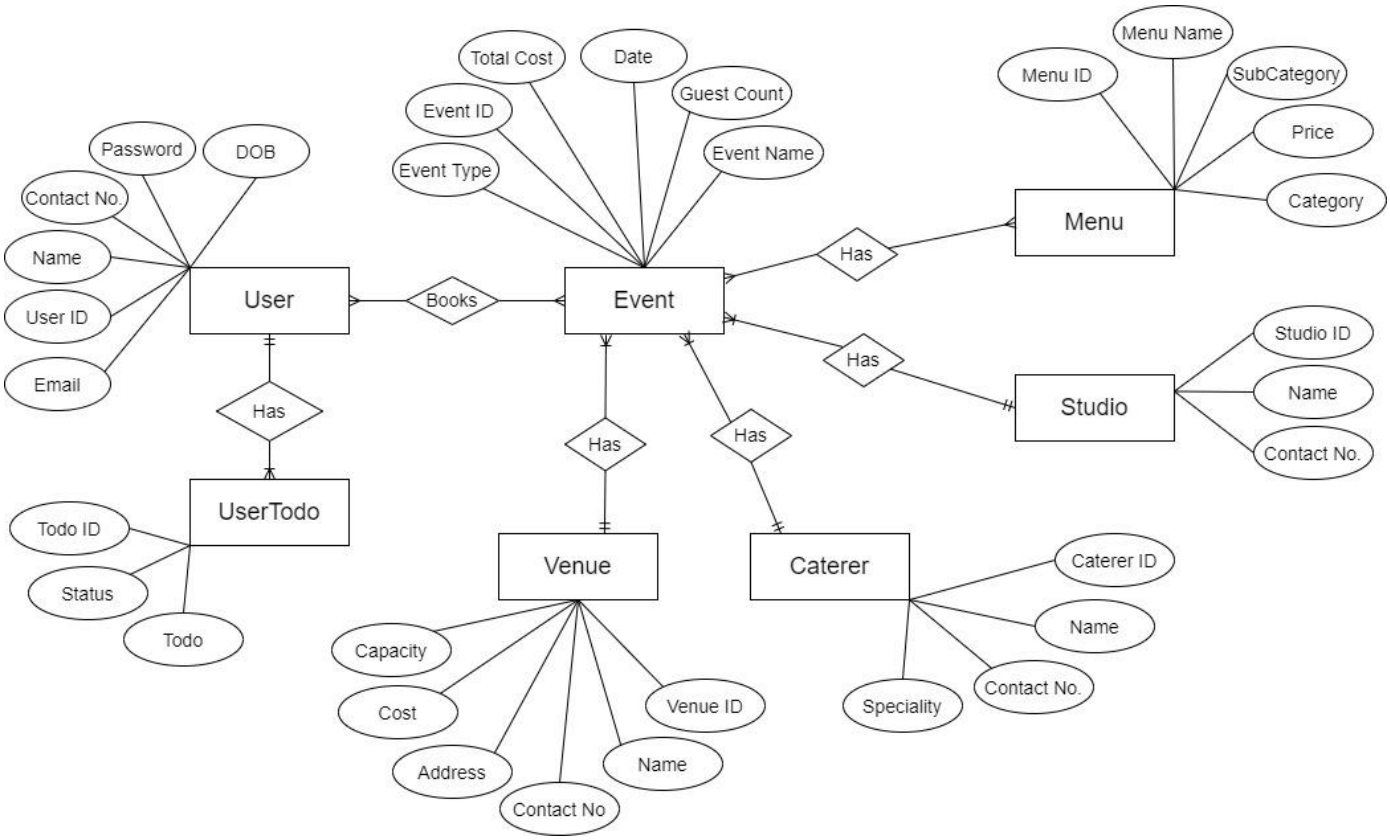

Figure 10: Manual ER Diagram

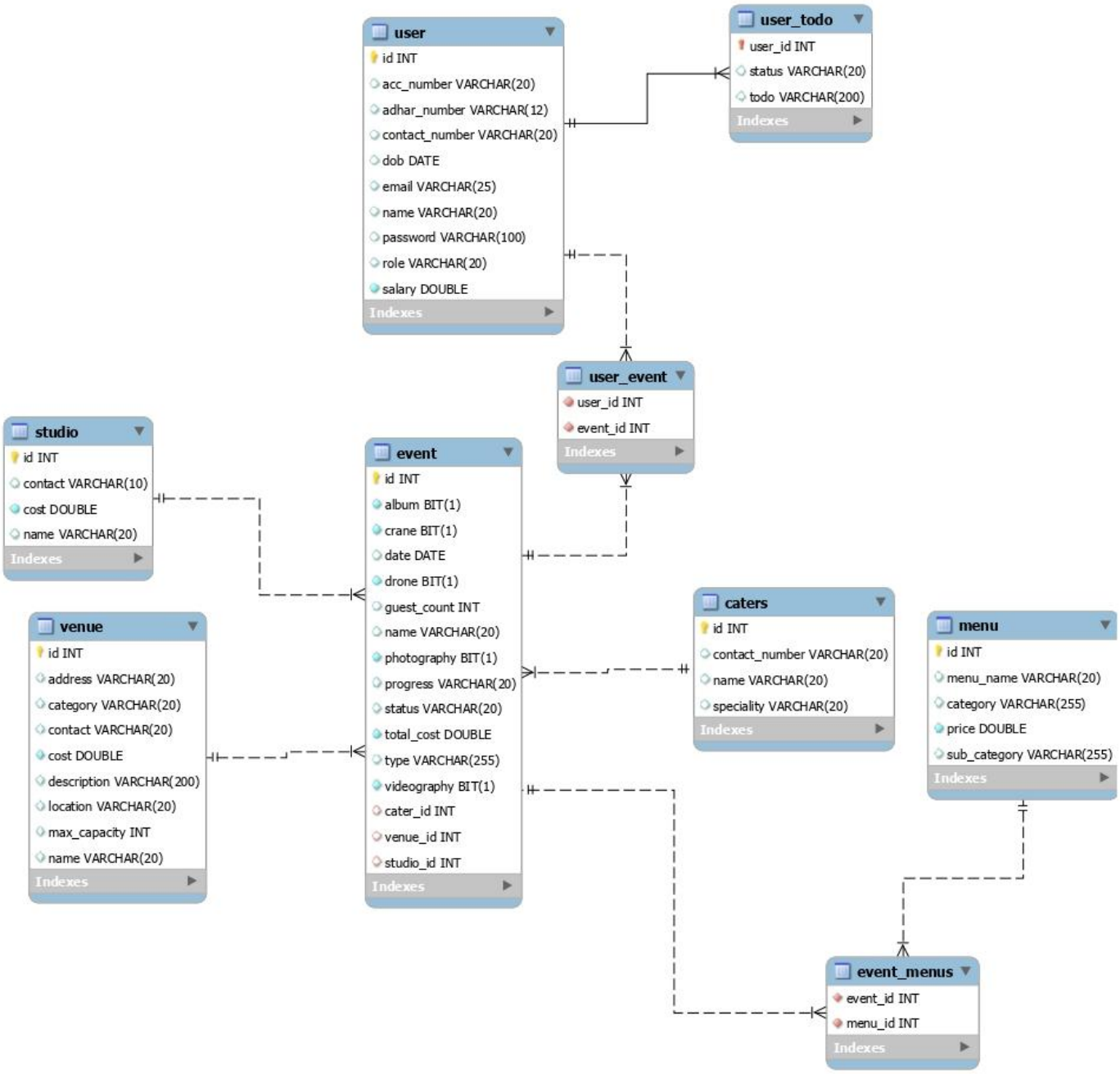

Figure 11: System Generated ER Diagram

5. Table Structure

User :

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
acc_number	varchar(20)	YES		NULL	
adhar_number	varchar(12)	YES		NULL	
contact_number	varchar(20)	YES		NULL	
dob	date	YES		NULL	
email	varchar(25)	YES	UNI	NULL	
name	varchar(20)	YES		NULL	
password	varchar(100)	YES		NULL	
role	varchar(20)	YES		NULL	
salary	double	NO		NULL	

Event :

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
date	date	YES		NULL	
guest_count	int	YES		NULL	
name	varchar(20)	YES		NULL	
progress	varchar(20)	YES		NULL	
status	varchar(20)	YES		NULL	
total_cost	double	NO		NULL	
type	varchar(255)	YES		NULL	
cater_id	int	YES	MUL	NULL	
venue_id	int	NO	MUL	NULL	
album	bit(1)	NO		NULL	
crane	bit(1)	NO		NULL	
drone	bit(1)	NO		NULL	
photography	bit(1)	NO		NULL	
videography	bit(1)	NO		NULL	
studio_id	int	YES	MUL	NULL	
customer_e...	varchar(255)	YES		NULL	

User Todo :

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
status	varchar(20)	YES		NULL	
todo	varchar(200)	YES		NULL	
user_id	int	YES	MUL	NULL	

Caterer :

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
contact_number	varchar(20)	YES		NULL	
name	varchar(20)	YES		NULL	
speciality	varchar(20)	YES		NULL	

Venue :

id	int	NO	PRI	NULL	auto_increment
address	varchar(100)	YES		NULL	
category	varchar(20)	YES		NULL	
contact	varchar(20)	YES		NULL	
cost	double	NO		NULL	
description	varchar(200)	YES		NULL	
location	varchar(20)	YES		NULL	
max_capacity	int	YES		NULL	
name	varchar(20)	YES		NULL	

Studio :

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
contact	varchar(10)	YES		NULL	
name	varchar(20)	YES		NULL	
albumcost	double	NO		NULL	
cranecost	double	NO		NULL	
dronecost	double	NO		NULL	
photographycost	double	NO		NULL	
videographycost	double	NO		NULL	

Menu :

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
menu_name	varchar(20)	YES		NULL	
category	varchar(255)	YES		NULL	
price	double	NO		NULL	
sub_category	va	YES		NULL	

varchar(

6. Conclusion

Our project is only a humble venture to satisfy the needs to manage their project work. Several user-friendly coding techniques have also been adopted. This package shall prove to be a powerful package in satisfying the requirements of both the customer and the firm. The objective if software planning is to provide a frame work that enables the manager to make reasonable estimate made within a limited time frame at the beginning of the software project and should be updated regularly.

7. References

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