

Mini Project Report on
HOTEL MANAGEMENT SYSTEM
Submitted in partial fulfillment of the requirements for the award
of the degree of

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In

Computer Science & Engineering

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Thank You.

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ABSTRACT

The requirement of booking a room when a customer enters a hotel and storing the information in a database has to be fulfilled. An application to allow the receptionist of a hotel to login and to perform certain functions such as allocating the room and entering the details of the customer in a database.

The application also helps the receptionist to search for a room , to view the rooms that are occupied and to cancel the room for a particular customer

The whole project makes easier the work of the staff by keeping a record of the customers.

HARDWARE AND SOFTWARE REQUIREMENTS

HARDWARE REQUIREMENTS:

- Processor with a minimum of a 3.3GHz Intel Xeon class or higher.
- 128 MB RAM or more.
- A minimum of 6 GB of available hard-disk space, and a minimum of 512 MB of RAM for Express editions, and 1 GB for all other editions.
- Additionally, the database requires a minimum of 20 GB of disk space (3 GB for database files and enough for attachments).
- It is also recommended to have a processor speed of 2.0GHz or faster, and at least 4 GB of RAM.

SOFTWARE REQUIREMENTS:

- Operating System:- Windows NT / 2000 / XP or higher
- MySQL 5.5 Command Line Client
- Microsoft Visual Studio 2022
- Java SE Runtime Environment 1.8.0_321

PROPOSED METHODOLOGY

This app is used to do dbms transactions for a hotel in order to reserve a room ,cancel a reservation,list all the rooms allotted and to search a specific room .

We have a login page which can be accessed by the staff at the reception and it will take us to the main page of the application.

The details of the customer gets stored in the database and gets deleted when he/she vacates the room.

Features :

1.Add reservation:

The details of the customer are entered and stored in the database and a room is allocated for them.

2.View reservation:

The details of all the customers in the hotel and their room no is displayed .

3.Cancel reservation:

The details of the customers are deleted when a reservation is canceled.

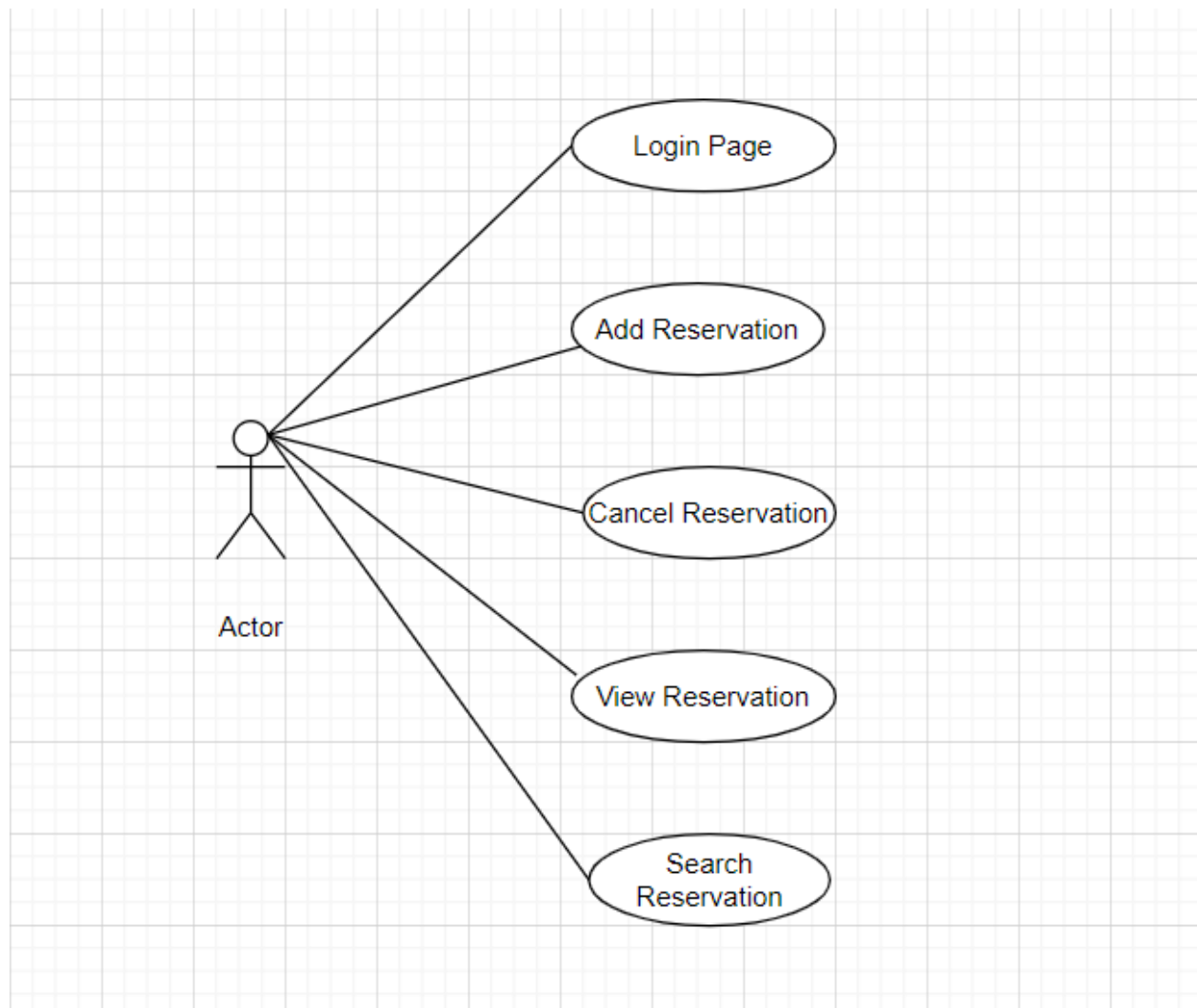
4.Search reservation:

When a room number is searched the details of the customer in that particular room is displayed.

Advantages:

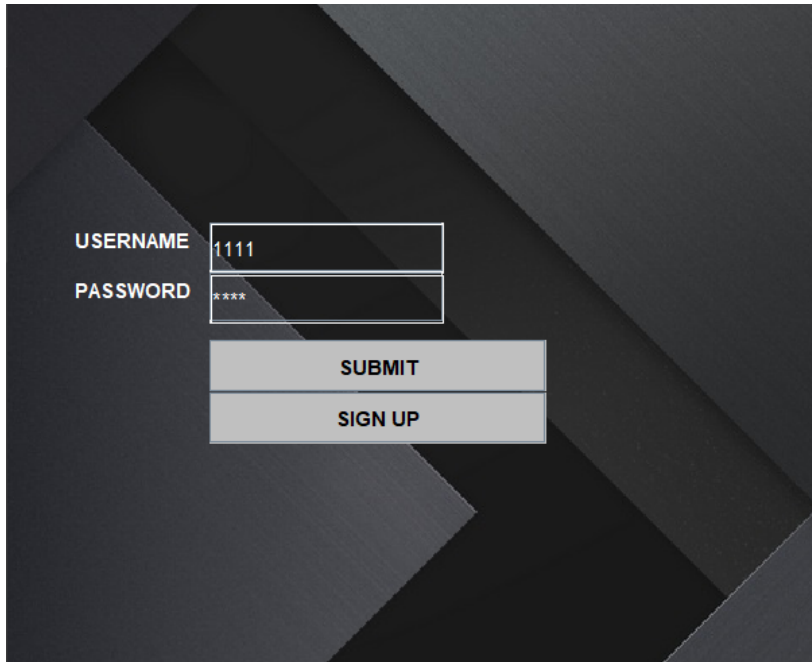
- Well Ordered and documented.
- Simple and Fast.
- Provides easy access to data.

USE CASE DIAGRAM



SCREENSHOTS:

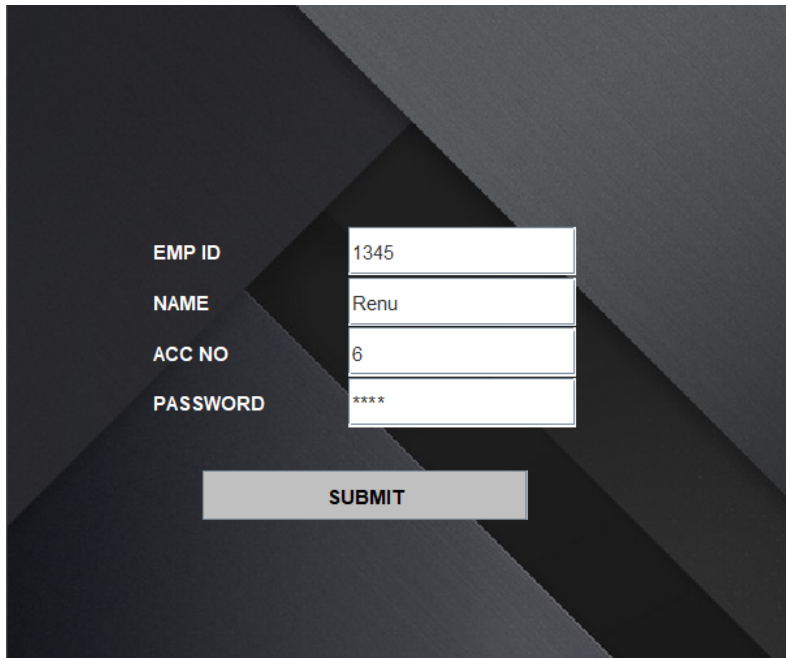
1. LOGIN PAGE



A screenshot of a login page with a dark, geometric background. The form contains two input fields: 'USERNAME' with the value '1111' and 'PASSWORD' with the value '****'. Below the input fields are two buttons: 'SUBMIT' and 'SIGN UP'.

USERNAME	1111
PASSWORD	****
SUBMIT	
SIGN UP	

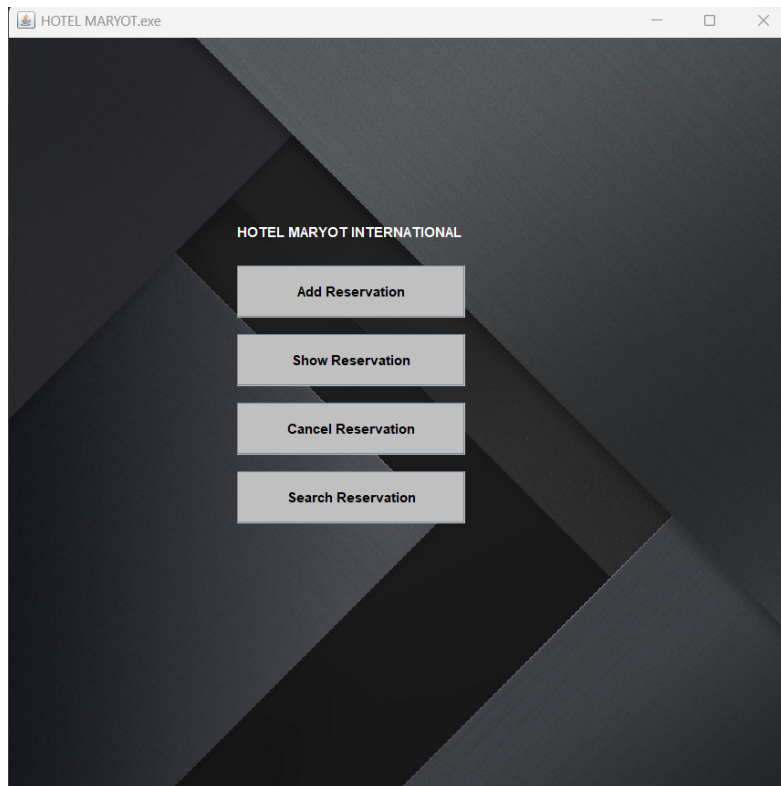
2. SIGN UP PAGE



A screenshot of a sign up page with a dark, geometric background. The form contains four input fields: 'EMP ID' with the value '1345', 'NAME' with the value 'Renu', 'ACC NO' with the value '6', and 'PASSWORD' with the value '****'. Below the input fields is a single button: 'SUBMIT'.

EMP ID	1345
NAME	Renu
ACC NO	6
PASSWORD	****
SUBMIT	

3. MAIN PAGE



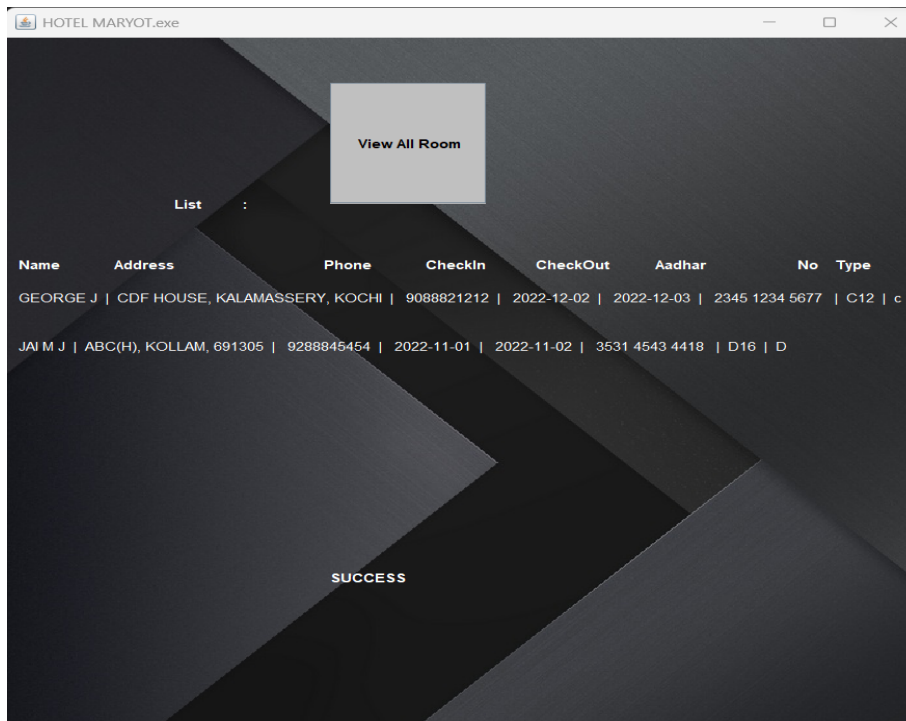
4. ADD RESERVATION

The screenshot shows a window titled "HOTEL MARYOT.exe" with a dark, geometric background. The "ADD RESERVATION" form is displayed, featuring several input fields for user information and reservation details. The fields are arranged in a two-column layout. At the bottom, there is a "SUBMIT" button.

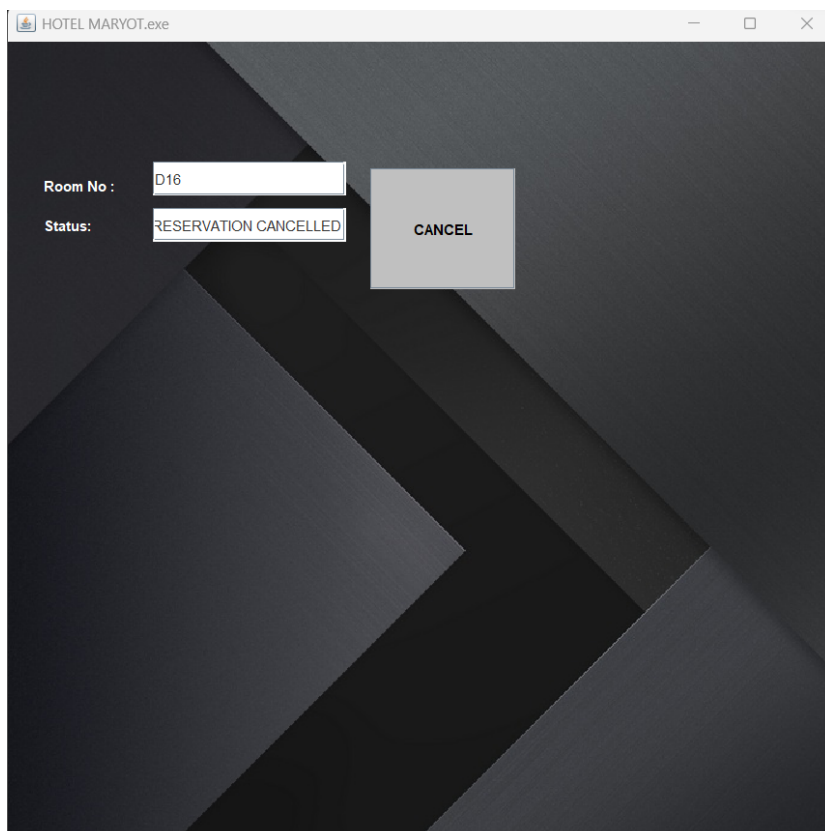
Name	GEORGE J
Address	, KALAMASSERY, KOCHI
Phone number	9088821212
Check in date(YYYY-MM-DD)	2022-12-02
Check out date(YYYY-MM-DD)	2022-12-03
Adhaar number	2345 1234 5677
Room number	C12
Room type(A/B/C/D)	c

SUBMIT

5. SHOW RESERVATION



6. DELETE RESERVATION



7.SEARCH RESERVATION

HOTEL MARYOT.exe

Room No :

Status:

SEARCH

Name	Address	Phone	CheckIn	CheckOut	Aadhar	No	Type
GEORGE J	CDF HOUSE, KALAMASSERY, KOCHI	9088821212	2022-12-02	2022-12-03	2345 1234 5677	C12	c

PLATFORM AND IDE

JAVA

Java is a high-level, class-based, object-oriented programming language that is designed to have as few implementation dependencies as possible. It is a general-purpose programming language intended to let programmers write once, run anywhere (WORA), meaning that compiled Java code can run on all platforms that support Java without the need to recompile. Java applications are typically compiled to bytecode that can run on any Java virtual machine (JVM). The Java runtime provides dynamic capabilities (such as reflection and runtime code modification) that are typically not available in traditional compiled languages.

Advantages of Java :

- Java is easy to learn.

Java was designed to be easy to use and is therefore easier to write, compile, debug, and learn than other programming languages.

- Java is object-oriented. This allows you to create modular programs and reusable code.
- Java is platform-independent.
- Java is robust.

MySQL 5.5.30

MySQL is the world's most used open source relational database management system (RDBMS) that runs as a server providing multi-user access to a number of databases. It is named after co-founder Michael Widenius' daughter, My. The SQL phrase stands for Structured Query Language. The MySQL development project has made its source code available under the terms of the GNU General Public License, as well as under a variety of proprietary agreements. MySQL was owned and sponsored by a single for-profit firm, the Swedish company MySQL AB, now owned by Oracle Corporation.

On larger scales, multi-server MySQL deployments are required to provide improved performance and reliability. A typical high-end configuration can include a powerful master database which handles data write operations and is replicated to multiple slaves that handle all read operations. The master server synchronizes continually with its slaves so in the event of failure a slave can be promoted to become the new master, minimizing downtime. Further improvements in performance can be achieved by caching the results from database queries in memory using memcached, or breaking down a database into smaller chunks called shards which can be spread across a number of distributed server clusters.

ADVANTAGES OF MySQL

- Easy to use
- Security
- Inexpensive
- Speed
- Scalable
- Manages memory very well
- Platform Independent
- Supports several development interfaces

FUTURE ENHANCEMENT

- ❑ Our future plan is to add interactive features to the already existing application .
- ❑ Notify the customers if there is an appealing offer.
- ❑ More security feature can be added to prevent data loss.

CONCLUSION

An application is developed to help the staff of a hotel in allocating a room, searching for a particular room to see if it is vacant or occupied, to cancel and to show all the rooms that are currently being occupied.

It also stores the data of the customers in the hotel in the database .

REFERENCE

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