GLA UNIVERTSITY, MATHURA

**TOPIC: MINI PROJECT SYNOPSIS ON
HOTEL MANAGEMENT WEBSITE**

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DECLARATION

I hereby declare that this project work entitled "hotel management website" has been prepared by our team during 2021-2022 under the guidance of **Mr. Akash Kumar Choudhary, Technical Trainer, Department of Computer Science, GLA UNIVERSITY, MATHURA.** In the partial fulfillment of B.Tech degree prescribed by the college.

I also declare that this project is the outcome of effort of our team that it has not been submitted to any other university, college or any other institute for the award of any degree.

TEAM DETAILS

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The problem statement

The problems faced by the existing system and hope to be solved by the Hotel Management System are described below:

- ❖ Difficulty in maintenance of records
- ❖ Time consuming
- ❖ Editing of data becomes a tedious job
- ❖ No security of data
- ❖ Mistakes occurring in Calculation of funds
- ❖ Lack of efficiency
- ❖ Data redundancy
- ❖ Data inconsistency
- ❖ Incidence of Fraud

INTRODUCTION

This project examines the aspect of the hospitality industry which is Hotel management. In the 21st century the use of the internet, computers and other electronic devices have made handling different jobs and aspects of management very easy. This project is the design and implementation of an electronic hotel management system that provides proper management of data and transactions in a centralized and organized manner and also provides a user friendly interface with which the user can interact easily with the just little or elementary knowledge of operating computers.

ABOUT THE PROJECT:-

This project is designed to create a platform that allows both the user and administrator to keep track of transactions like room reservations, room booking, online reservation and other day to day activities involved in the running and management of a hotel. The implementation is based on the requirements for a hotel management system.

This project accomplished the task of building a system that ensures accurate record maintenance which was done through proper identification of customers and the proper designation of user functions with most of the processes being done automatically.

The project was designed with the use of Microsoft visual Studio which is an integrated development environment made by Microsoft. It can be used to develop console and graphical user interface applications along with windows form application websites. The database system was created using Microsoft SQL server (MySQL).

Primary Reason to Choose This Project

The project, Hotel Management System is a web-based application that allows the hotel manager to handle all hotel activities online. Interactive GUI and the ability to manage various hotel bookings and rooms make this system very flexible and convenient. The hotel manager is a very busy person and does not have the time to sit and manage the entire activities manually on paper. This application gives him the power and flexibility to manage the entire system from a single online system. Hotel management project provides room booking, staff management and other necessary hotel management features. The system allows the manager to post available rooms in the system. Customers can view and book room online. Admin has the power of either approving or disapproving the customer's booking request. Other hotel services can also be viewed by the customers and can book them too. The system is hence useful for both customers and managers to
Potable manage the hotel activities.

The Main Objective of the Project

The Main Objective of hotel organizations could be improved by integrating service-oriented operations service-oriented operations with project management principles. Such integration would instill innovation, proactive attitudes and regulated risk-taking needed to pursue ongoing improvement and proactive response to change. By managing each change as a project, embedded in smoothly running operations, hotels would extend their life span by continuously reinventing themselves. Due to which the customers can easily book the hotels rooms.

FEASIBILITY STUDY

Perform and evaluate feasibility studies like cost-benefit analysis, technical feasibility, time feasibility and operational feasibility for the project. Project Scheduling should be made using chats. Feasibility study is carried out t decide whether the proposed system is feasible for the company. It begins with a request from the user for a new system. It involves the following:

- *Identify the responsible user for a new system*
- *Clarify the user request*
- *Identify deficiencies in the current system*
- *Establish goals and objectives for the new system*
- *Determine the feasibility for the new system*
- *Prepare a project charter that will be used to guide the remainder of the Project*

Scope of the Project

At present this website does not contain Credit card facility. We can make this application as online so that we can reserve the tables and do the online payment. So as the demand increases we can add these modules as a future scope.

Working Methodology of the Project

In this project, we divided the web-application in two modules first deals with administrative activities and second module user activities. If a user visit our website he/she will able to view room, gallery, see services and able to book room which connect to database which we created using MySQL and when administrative visit our website he/she able to login and see room booking, room status, payment status, and then logout this all connected with backend database created using MySQL.

Details about the Hardware and the Software

System Requirements: - **Windows 7/8/10**

Software Required:

- Technology Implemented: Front-End and Back-End Technologies

- Language :   HTML, CSS, Java Script, PHP

- Database: MySQL

- IDE: Visual Studio Code

- Browser: Google Chrome

- *Hardware Requirements: -*

- Processor: Intel i3

- Operating System: Windows 7/8/10

- RAM: 4+GB

- Hard disk: 64 GB

- Hardware Devices: Computer System

Listing out testing technology

Frontend and Backend: -

Frontend:-
- HTML
- CSS
- JavaScript
-

Backend:-
- PHP
- MySQL

What contribution would the project make and where?

This project will play major role in hotel management it will have several contribution or role some of these are listed below:

1. Save time on admin tasks

2. Increase your online visibility

3. Implement an effective revenue management system

4. Manage distribution functions

Scope for extension into a major project

➢ Implementation of more modern online facilities that might help prospective customers interact (limitedly) more with the system and the Hotel in general such as PayPal for making online transactions.

➤ Adequate provision should be made for customers to interact with authorized users of the hotel for reservation using their mobile phones.

Module Description

Administrator Login module

- Status

- View Booking

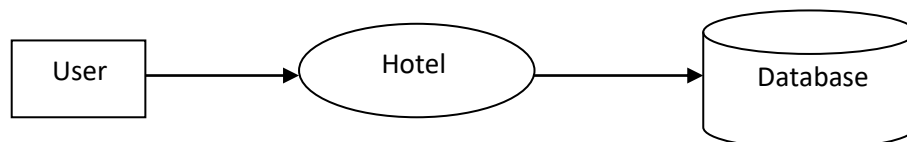- View Rooms

- View payments

- Logout

Users visit module

- View rooms

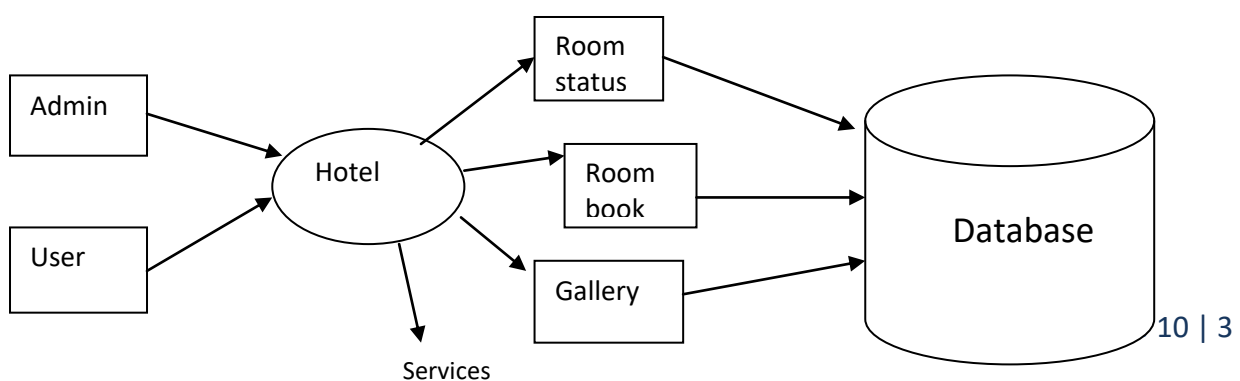- View Gallery

- View services

- Book

Data Flow Diagrams

DFD: -

A data flow diagram (DFD) illustrates how data is processed by a system in terms of inputs and outputs. As its name indicates its focus is on the flow of information, where data comes from, where it goes and how it gets stored.
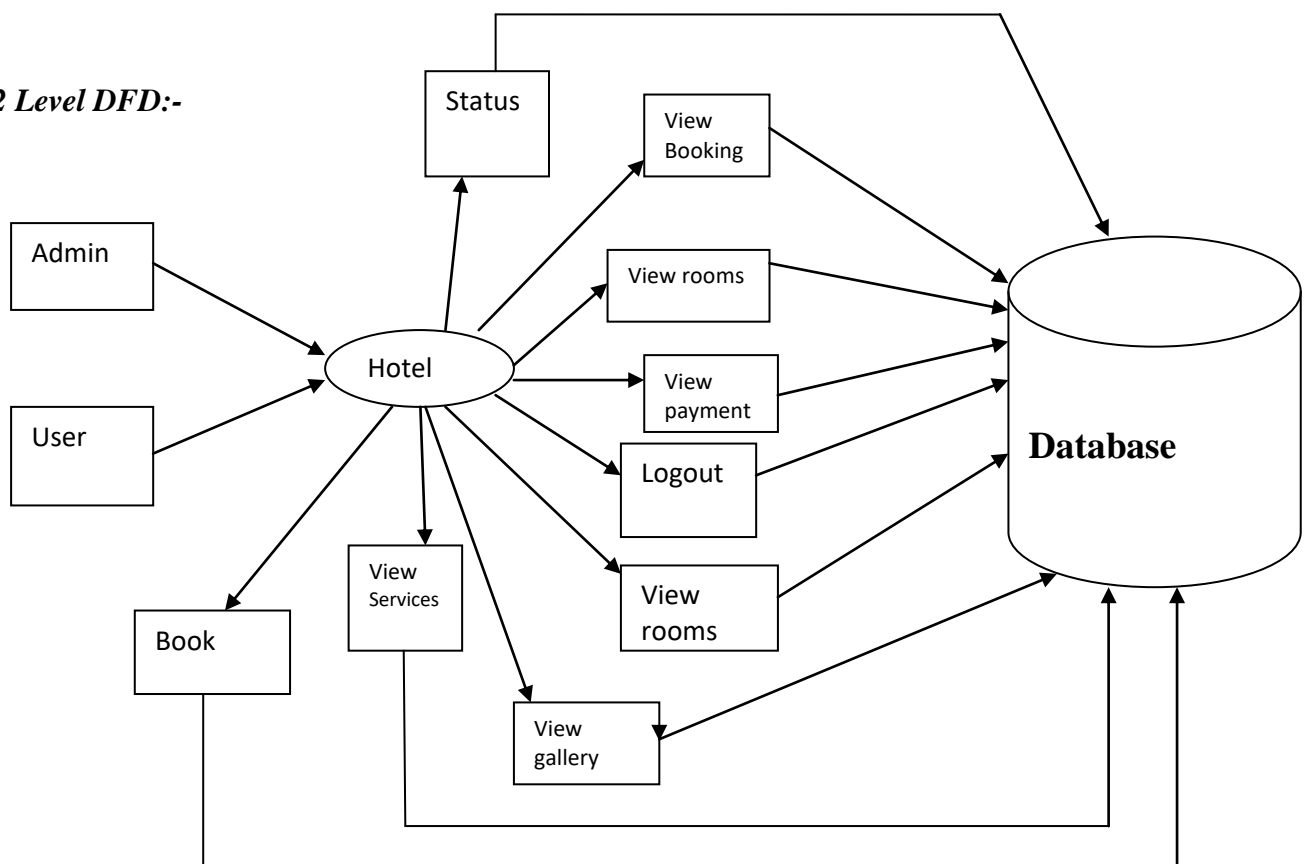
0 Level DFD: -

```
┌──────────┐         ┌──────────┐         ┌──────────┐
│   User   │────────▶│  Hotel   │────────▶│ Database │
└──────────┘         └──────────┘         └──────────┘
```

1 Level DFD:-

```
┌─────────┐
│  Admin  │──────┐        ┌──────────┐
└─────────┘      │        │   Room   │
                 ▼        │  status  │──────┐
             ┌────────┐   └──────────┘      ▼
             │ Hotel  │──▶┌──────────┐   ┌──────────┐
┌─────────┐  └────────┘   │   Room   │──▶│          │
│  User   │─────┘  │      │   book   │   │ Database │
└─────────┘        │      └──────────┘   │          │
                   │      ┌──────────┐   └──────────┘
                   ▼      │  Gallery │──▶
                Services  └──────────┘
```

2 Level DFD:-

Conclusion

In conclusion we believe this project if properly utilized will save time, reduce the amount of work the administration has to do, and will replace the stationery material with electronic apparatus. The system should also serve as a major tool to improving the efficiency in Hotel management. Hence a system with expected results has been developed but there is still room for improvement.

References

- Wikipedia
- www.beta-labs.in
- https://www.w3schools.com
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