

Hotel Management System Using Php: Engineering College Prospective

Asst . Prof . Bhupesh Deka- Faculty at Gandhi Institute For Technology,
MCA Dept. (Affiliated to Biju Patnaik
University of Technology)

Chinmaya Senapati – Student at Gandhi Institute For Technology, CSE Dept.
(Affiliated to Biju
Patnaik University of
Technology)

Jyotipriya Panda– Student at Gandhi Institute For Technology, CSE Dept. (Affiliated to
Biju

Patnaik University of
Technology)

Gokulananda Pradhan – Student at Gandhi Institute For Technology, CSE Dept.
(Affiliated to Biju
Patnaik University of
Technology)

Abstract:

This project aims at creating on Hotel Management System which can be used by Admin and Customers. The admin to advise/publish the availability of rooms in different hotels and customers are checking the availability of room in required hotel. Customers should be able to know the availability of the rooms on a particular date to reserve in hotel. They should be able to reserve the available rooms according to their need in advance to make their stay comfortable. The Admin hands the booking information of customers. The users can register and log into the system. The administrator will know the details of reservation and daily income. The hotel department maintain the seat availability and booking details in certain database. This project provides high security to Admin and user information.

Keywords: — *Hotel Management, Php, Javascript, CSS, .*

Introduction:

The project, Hotel Management System is a web-based application that allowsthe hotel manager to handle all hotel activities online. Interactive GUI and theability to manage various hotel bookings and rooms make this system very flexible and convenient. The hotel manager is a very busy person and does nothave 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 portable manage the hotel activities.

Objectives:

During the past several decades personnel function has been transformed from a relatively obscure record keeping staff to central and top-level management function. There are many factors that have influenced this transformation like technological advances, professionalism, and general recognition of human beings as most important resource

A computer-based management system is designed to handle all the primary information required to calculate monthly statements.

Separate database is maintained to handle all the details required for the correct statement calculation and generation.

This project intends to introduce more user friendliness in the various activities such as record updating, maintenance, and searching.

The searching of record has been made quite simple as all the details of the customer can be obtained by simply keying in the identification of that customer.

Similarly, record maintenance and updating can also be accomplished by using the identification of the customer with all the details being automatically generated. These details are also being promptly automatically updated in the master file thus keeping the record absolutely up-to-date.

The entire information has maintained in the database or Files and whoever wants to retrieve can't retrieve, only authorized user can retrieve the necessary information which can be easily be accessible from the file.

System Analysis:

PRINCIPLES OF SYSTEM ANALYSIS

1. Understand the problem before you begin to create the analysis model.
2. Develop prototypes that enable a user to understand how human machine interaction will occur.
3. Record the origin of and the reason for every requirement.
4. Use multiple views of requirements like building data, function and behavioral models.
5. Work to eliminate ambiguity.

Mission & Vision:

Our Mission is to measurably improve our client's planning, operations, finances, marketing and services outcomes by demonstrating outstanding performance standards while providing cost effective consulting and professional services. To become IT partner to fortune companies for providing information management services.

"In order to realize our Vision, our Mission must be to exceed the expectations of our customers, whom we define as partners and fellow employees."

We will accomplish this by committing to our shared values and by achieving the highest levels of customer satisfaction, with extraordinary emphasis on the creation of value.

TECHNOLOGY SERVICE:

Custom Application Development & Enterprise Application Integration using Linux, UNIX, and windows O/S

- C, C++, Java, J2EE, J2ME, PHP
- .NET and Microsoft technologies
- Web Portals and e-commerce applications
- Oracle, SqlServer, MySQL, Postgress SQL, Firebird Databases
- Web Services development & implementation. Maintenance
- Application Maintenance and Enhancement on any platform Business Intelligence

Business intelligence:

- Business Information Warehouse
- Data Warehousing
- Customized Reporting / Web Reporting

Application & Product development:

- SAPSCRIPT and Custom Smart Forms Application & Product Development
- Compark develops products that integrate business across various technologies like Window Mobile, PHP, .Net, SAP and others. Products & Services

Technology Services:

- GIS Services
- Infrastructure Services

SOFTWARE DEVELOPEMENT:

The methodology used to develop this project is object-oriented methodology is based on function and procedures. It can be said as the development of software by building self-contained modules as objects that can be easily replaced, modified and reused. In this environment software is a collection of discrete objects that encapsulate their data as well as the functionality to model real world

“objects”. Each object has attribute and methods. Objects are grouped into classes. Here each object is

responsible for itself. This environment emphasizes its cooperative philosophy by allocating tasks among the objects of the applications. Instead of writing a lot of code we can create a lot of code we can create a lot of helps to take in an active role. Object oriented methodology involves mainly 1. Analysis 2. Design 3. Prototyping and testing.

Analysis

There are 5 important steps in the analysis. They are

1. Identification of the users/actors.
2. Development a simple business process model
3. Developing the use cases. 4. Developing the interaction diagrams.
5. Classifications. Software

Methodology

SYSTEM REQUIREMENTS:

Software requirement Specification

A set of programs associated with the operation of a computer is called software. Software is the part of the computer system, which enables the user to interact with several physical hardware devices.

The minimum software requirement specifications for developing this project are as follows:

Operating System : Windows XP/Vista/2000, Linux.

Presentation layer: PHP, CSS, HTML, JSP, FLASH Database:

My SQL Presentation: Power Point 2003 Documentation Tool : MS Office For sending SMS, we need the SMS API and a gateway.

Hardware Requirement Specification:

The collection of internal electronic circuits and external physical devices used in building a computer is called the Hardware.

The minimum hardware requirement specifications for developing this project are as follows:

Processor: Standard processor with a speed of 1.6 GHz RAM :256 MB

RAM or more

Hard Disk: 20 GB or more Monitor: Standard

color monitor Keyboard: Standard keyboard

Mouse: Standard mouse Functional Requirements.

SYSTEM DESIGN:

The objects discovered during the analysis can serve as the framework or Design. The class's attributes,

methods and The main focus of the analysis phase of Software development is on "What association identified during analysis must be designed for implementation language. New classes must be introduced to store intermediate results during the program execution.

Emphasis shifts from the application domain to implementation and computer such as user interfaces or view layer and access layer. During analysis, we look at the physical entities or business objects in the system, that is, which players and how they cooperate to do the work of the application. These objects represent tangible elements of the business.

During the Design phase, we elevate the model into logical entities, some of which might relate more to the computer domain as people or employees. Here his goal is to design the classes that we need to implement the system the difference is that, at this level we focus on the view and access classes, such as how to maintain information or the best way of interact with a user or present information.

The main focus of the analysis

phase of Software development is on "What needs to be done". The objects discovered during the analysis can serve as the framework or Design. The class's attributes, language. New classes must be introduced to store intermediate results during the program execution.

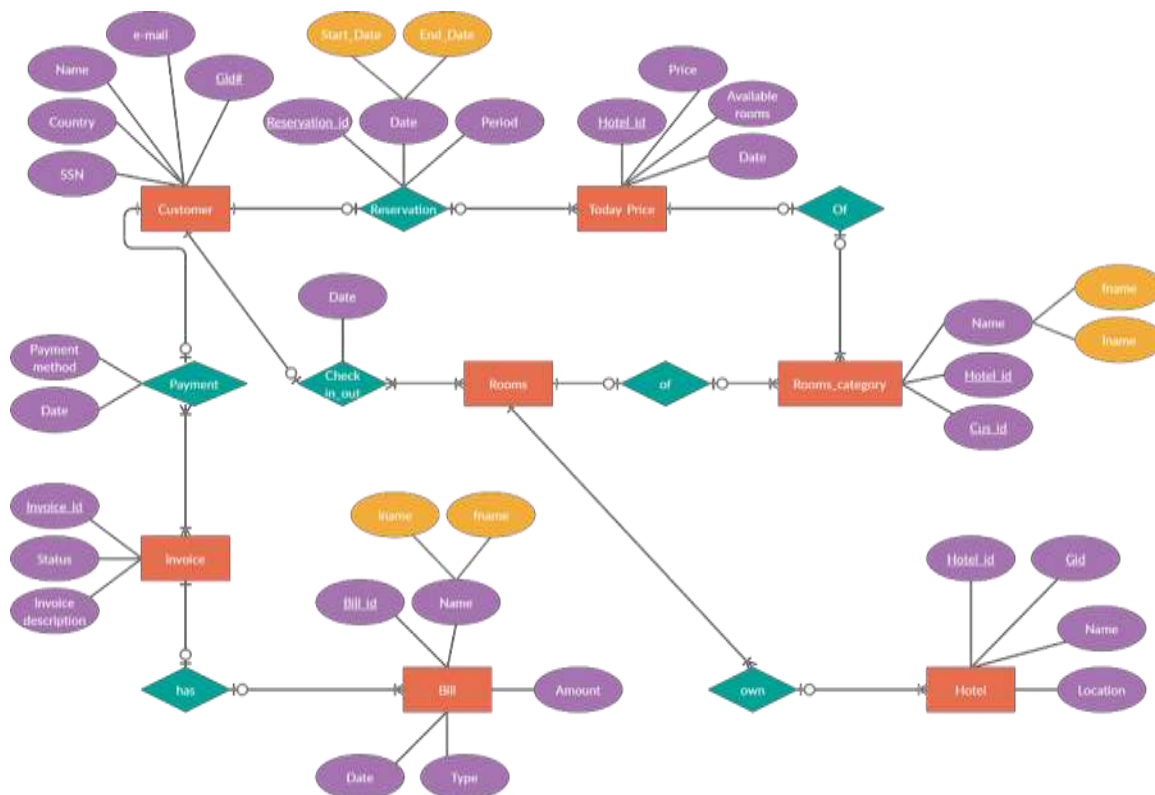
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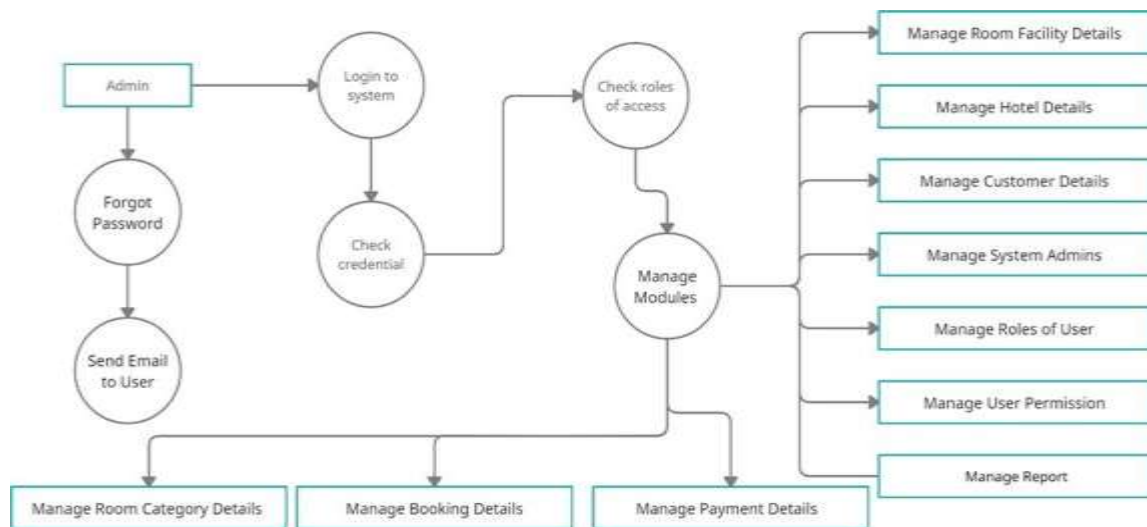
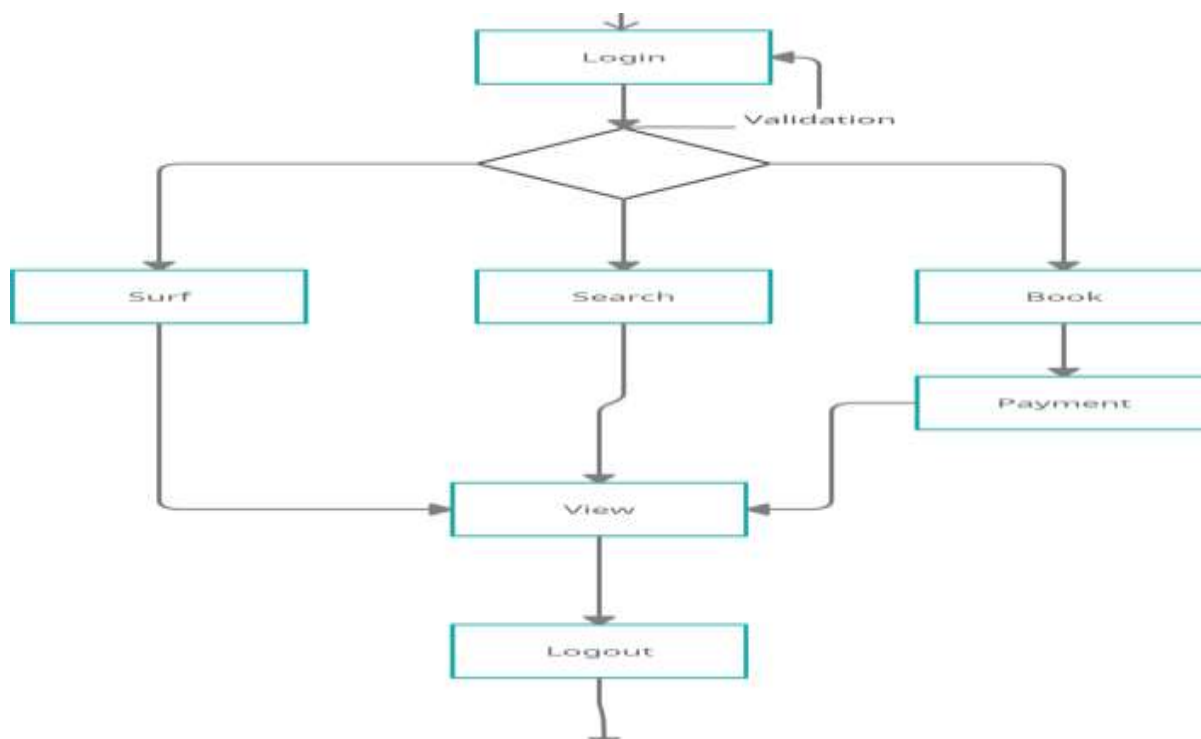
Design process:

During the design phase the classes identified in object-oriented analysis Must be revisited with a shift focus to their implementation. New classes or attribute. and Methods must be an added for implementation purposes and user interfaces. The object-oriented design process consists of the following activities:1. Apply design axioms to design classes, their attributes, methods, associations, structure and protocols Refine and complete the static UML classdiagram by adding details to the UML diagram. This step consists of following activities. *Refine attributes *Design methods and protocols by utilizing a

UML activity diagram to represent the method's a

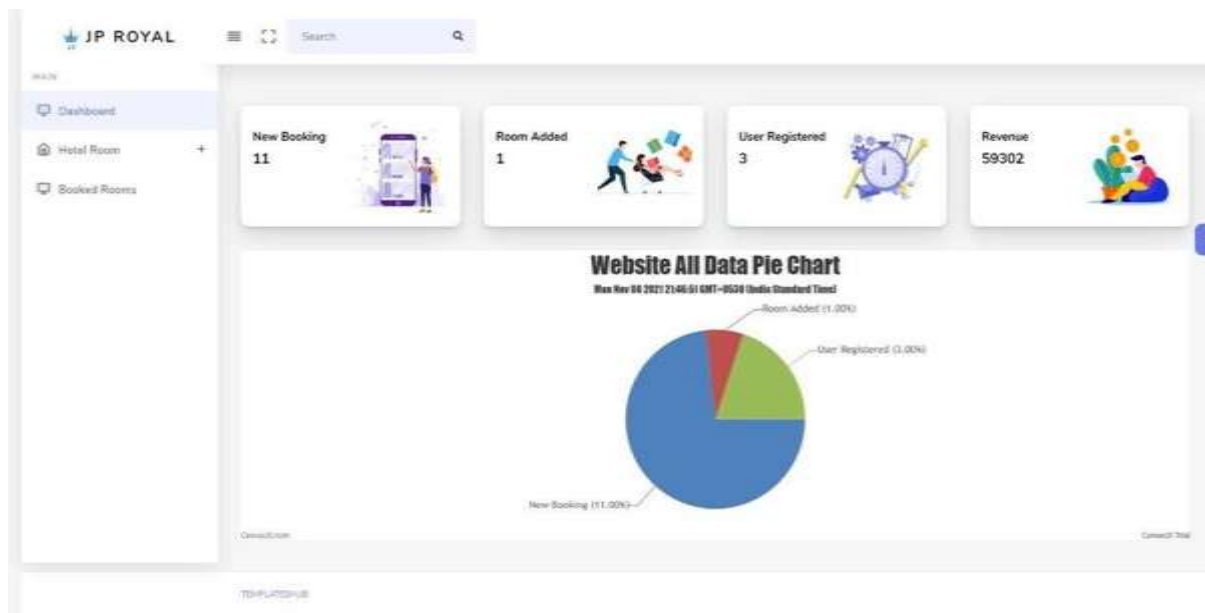
lgorithms. *Refine associations between classes*Refine class hierarchy anddesign with inheritance*Iterate and refine again

ER DIGRAM:

DATA FLOW DIGRAM:**FLOW CHART:**

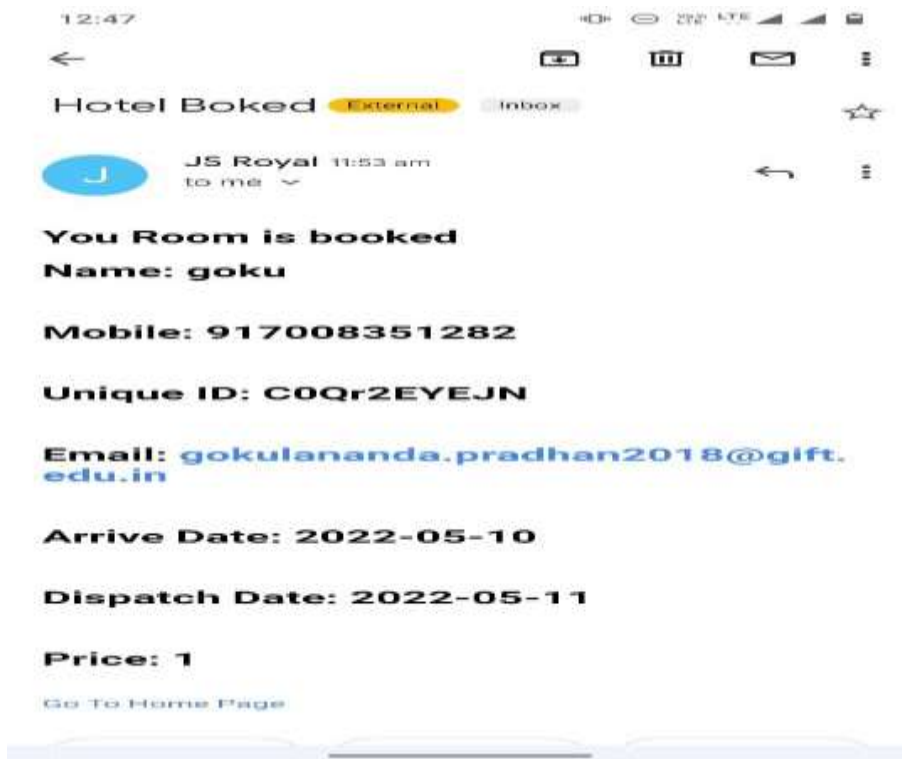
WORK TO BE DONE:

1. Login Page
2. Home page
3. Admin Page
4. Booking Page
5. Confirmation Page
6. Sign Up page

RESULT:**Booking Page:****Log in Page:**

The screenshot shows the Sign Up page. On the left is a 3D illustration of a hotel lobby. On the right is a form with the following fields and elements:

- Phone Number:** A text input field with a placeholder "Enter Number for Sign Up".
- Verification:** A checkbox for "I'm not a robot" and a "Send OTP" button.
- OTP:** A text input field for the received OTP.
- Full Name:** A text input field with a placeholder "Enter Full Name".
- Password:** A text input field with a placeholder "Enter password".
- Confirm Password:** A text input field with a placeholder "Confirm password".
- Buttons:** A "Create" button and a "Forgot Password?" link.
- Footer:** A link "Already have an account? login".



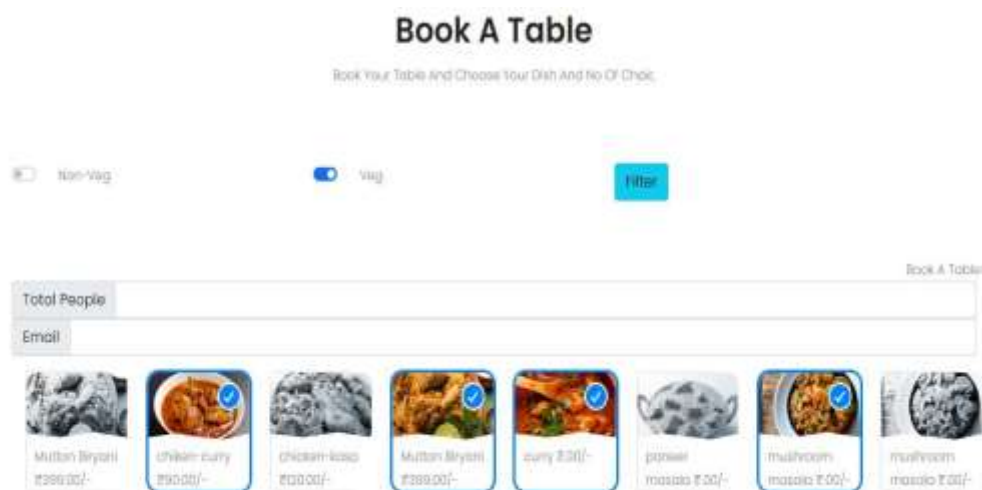
HOME PAGE:



PAYMENT PAGE:



Booking Page:



ADVANTAGES:

1. Save time on admin tasks.
2. Develop Strong relationships with your guests.
3. Increase your online visibility.
4. Manage distribution functions.
5. Increase bookings.
6. Accurate daily reports.

DIS ADVANTAGES:

The main disadvantage of the hotel management system is losing the human touch. Because of the HMS the time which a guest spends in a hotel reception decreases. Someone can say that it's easy for the guest. But when we look at from the hotel's side it's a loss. As they cannot build up a good relationship with guests.

In this step, we provide a detailed description about the existing system and the problems faced in the existing system. This stage there is no existing system previously; we are developing a new system. Till now no system is available with this type of features and facilities. This system is developed for the all types of users with highly flexible and configurable product is envisaged to ensure global marketing

1.2.2 Proposed System Features:

- Some of the service providers won't allow you to choose your hotel, they only allow you to select location and quality of the hotel. Considerable discounts on hotels may be available in off-seasons.
- Utilize the serve of online hotel booking service providers when you are planning for a trip.
- Each and every customer looks to book their hotel rooms early and conveniently.
- User can Post, update and delete the links in the all categories.
- Online hotel booking is the best ways to book rooms in your favourite hotels.
- Planning a vacation has never been easier and more reasonable than now. Easiness, affordable pricing, and simple comparison shopping make online hotel bookings accepted to all.

CONCLUSION:

This project is designed to meet the requirements of Online Hotel Management. It has been developed in VB & Mas-Access keeping in mind the specifications of the system. For designing the System, we have used simple data flow diagrams. Over all the project teaches us the essential skills like:

- Using system analysis and design techniques like data flow diagram in designing the system.
- Understanding the database handling and query processing.

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