ONLINE HOTEL MANAGEMENT SYSTEM

A MINI PROJECT REPORT

Submitted by

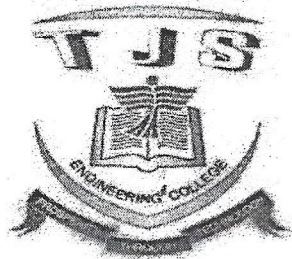**KUMAR .A**   **(112819104018)**

In partial fulfilment for the award of the degree

Of

BACHELOR OF ENGINEERING

In

COMPUTER SCIENCE AND ENGINEERING

T.J.S. ENGINEERING COLLEGE, PERUVOYAL
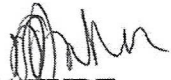

ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2022

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BONAFIDE CERTIFICATE

Certificate that this project report **"ONLINE HOTEL MANAGEMENT SYSTEM"** bonafide work of the following students.

KUMAR .A	(112819104018)

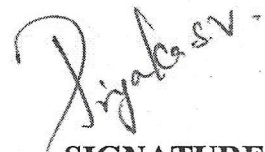Who carried out the project work under my supervision:

SIGNATURE

Mr.S.ANBU.,M.E.,PhD.,

HEAD OF THE DEPARTMENT

Department of Computer Science

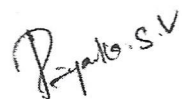and Engineering,

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Peruvoyal.

SIGNATURE

Mrs.S.V.PRIYANKA.,M.E(CSE).,
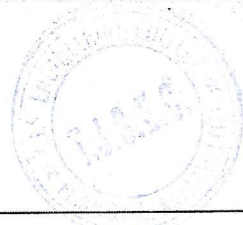
SUPERVISOR

Department of Computer Science

and Engineering,

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Peruvoyal.

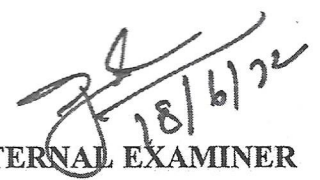Submitted for viva voce held on 18-06-2000 at T.J.S. Engineering College, Peruvoyal.

INTERNAL EXAMINER

EXTERNAL EXAMINER

ABSTRACT

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.
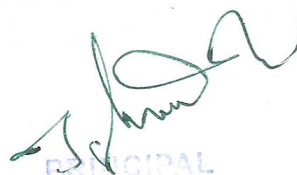
Other hotel services can also be viewed by the customers and can book them too. The system is hence useful for both customers and managers to portably manage the hotel activities.

The business case for investing in online reputation has received increasing scrutiny in recent years. This study identifies the business value of consumer reviews and management responses to hotel performance. We are creating a online hotel booking website with online consumer reviews and management responses and hotel room's preview video's are available on a hotel review website itself. The overall website result's show that overall rating, attribute ratings of booking value, location and cleanliness, variation and volume of consumer reviews, and the number of management responses are significantly associated with hotel performance. In addition, variation and volume of consumer reviews moderate the relationship between overall rating and hotel performance. Management responses, together with variation and volume of consumer reviews, moderate the relationship between certain attribute ratings and hotel performance. Implications of utilizing consumer reviews and management responses to leverage hotel business are provided.

Creating a Online hotel booking website with consumers reviews and management responses and hotel room's preview video's are available on hotel review website itself.
Implications of utilizing consumer reviews and management responses to leverage hotel business are provided.

In addition, variation and volume of consumer reviews moderate the relationship between overall rating and hotel performance.

CS8651   **INTERNET PROGRAMMING**   **L   T   P   C**
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OBJECTIVES:
- To understand different Internet Technologies.
- To learn java-specific web services architecture

UNIT I   WEBSITE BASICS, HTML 5, CSS 3, WEB 2.0   9

Web Essentials: Clients, Servers and Communication – The Internet – Basic Internet protocols – World wide web – HTTP Request Message – HTTP Response Message – WebClients — Web Servers — HTML5 — Tables — Lists — Image — HTML5 control elements —Semantic elements – Drag and Drop – Audio – Video controls - CSS3 – Inline, embedded and external style sheets – Rule cascading – Inheritance – Backgrounds – Border Images –Colors – Shadows – Text – Transformations – Transitions – Animations.

UNIT II   CLIENT SIDE PROGRAMMING   9

Java Script: An introduction to JavaScript–JavaScript DOM Model-Date and Objects,- Regular Expressions- Exception Handling-Validation-Built-in objects-Event Handling- DHTML with JavaScript- JSON introduction – Syntax – Function Files – Http Request – SQL.

UNIT III   SERVER SIDE PROGRAMMING   9

Servlets: Java Servlet Architecture- Servlet Life Cycle- Form GET and POST actions- Session Handling- Understanding Cookies- Installing and Configuring Apache Tomcat Web Server- DATABASE CONNECTIVITY: JDBC perspectives, JDBC program example - JSP:
Understanding Java Server Pages-JSP Standard Tag Library (JSTL)-Creating HTML forms by embedding JSP code.

UNIT IV   PHP and XML   9

An introduction to PHP: PHP- Using PHP- Variables- Program control- Built-in functions-Form Validation- Regular Expressions - File handling – Cookies - Connecting to Database.
XML: Basic XML- Document Type Definition- XML Schema DOM and Presenting XML, XMLParsers and Validation, XSL and XSLT Transformation, News Feed (RSS and ATOM).

                                                                                  9
UNIT V   INTRODUCTION TO AJAX and WEB SERVICES

AJAX: Ajax Client Server Architecture-XML Http Request Object-Call Back Methods; Web Services: Introduction- Java web services Basics — Creating, Publishing, Testing and Describing a Web services (WSDL)-Consuming a web service, Database Driven web
service from an application –SOAP.

                                                    TOTAL   45   PERIODS

OUTCOMES:
At the end of the course, the students should be able to:
- Construct a basic website using HTML and Cascading Style Sheets.
- Build dynamic web page with validation using Java Script objects and by applying different event handling mechanisms.
- Develop server side programs using Servlets and JSP.
- Construct simple web pages in PHP and to represent data in XML format.
- Use AJAX and web services to develop interactive web applications

TEXT BOOK:
1. Deitel and Deitel and Nieto, ―Internet and World Wide Web - How to Program‖, Prentice Hall, 5th Edition, 2011.

REFERENCES:

1. Stephen Wynkoop and John Burke —Running a Perfect Website‖, QUE, 2ndEdition,1999.

2. Chris Bates, Web Programming – Building Intranet Applications, 3rd Edition, Wiley Publications, 2009.
3. Jeffrey C and Jackson, —Web Technologies A Computer Science Perspective‖,Pearson Education, 2011.
4. Gopalan N.P. and Akilandeswari J., —Web Technology‖, Prentice Hall of India, 2011.
5. UttamK.Roy, —Web Technologies‖, Oxford University Press, 2011.

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OBJECTIVES:
- To be familiar with Web page design using HTML/XML and style sheets
- To be exposed to creation of user interfaces using Java frames and applets.
- To learn to create dynamic web pages using server side scripting.
- To learn to write Client Server applications.
- To be familiar with the PHP programming.
- To be exposed to creating applications with AJAX

LIST OF EXPERIMENTS
1. Create a web page with the following using HTML
   a. To embed a map in a web page
   b. To fix the hot spots in that map
   c. Show all the related information when the hot spots are clicked.
2. Create a web page with the following.
   a. Cascading style sheets.
   b. Embedded style sheets.
   c. Inline style sheets. Use our college information for the web pages.
3. Validate the Registration, user login, user profile and payment by credit card pages usingJavaScript.

4. Write programs in Java using Servlets:
   i. To invoke servlets from HTML forms
   ii. Session tracking using hidden form fields and Session tracking for a hit count
5. Write programs in Java to create three-tier applications using servlets for conducting on-line examination for displaying student mark list. Assume that student information is available in a database which has been stored in a database server.
6. Install TOMCAT web server. Convert the static web pages of programs into dynamic web pages using servlets (or JSP) and cookies. Hint: Users information (user id, password, credit card number) would be stored in web.xml. Each user should have a separate Shopping Cart.
7. Redo the previous task using JSP by converting the static web pages into dynamic web pages. Create a database with user information and books information. The books catalogue should be dynamically loaded from the database.
8. Create and save an XML document at the server, which contains 10 users Information. Write a Program, which takes user Id as an input and returns the User details by takingthe user information from the XML document

9. i. Validate the form using PHP regular expression.
   ii. PHP stores a form data into database.
10. Write a web service for finding what people think by asking 500 people's opinion for any consumer product.
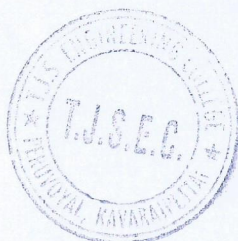
OUTCOMES:
Upon Completion of the course, the students will be able to:
- Construct Web pages using HTML/XML and style sheets.
- Build dynamic web pages with validation using Java Script objects and by applying different event handling mechanisms.
- Develop dynamic web pages using server side scripting.
- Use PHP programming to develop web applications.
- Construct web applications using AJAX and web services.

SOFTWARE REQUIRED:

- Dream Weaver or Equivalent, MySQL or Equivalent, Apache Server, WAMP/XAMPP

PRINCIPAL
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