VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Internship Report

on

"HOTEL MANAGEMENT SYSTEM"

A report submitted in partial fulfillment of the requirements for the award a degree of

BACHELOR OF ENGINEERING

in

COMPUTER SCIENCE AND ENGINEERING

Submitted by

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ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

MOODBIDRI-574225, KARNATAKA

2023 – 2024

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY
MOODBIDRI-574225, KARNATAKA

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
CERTIFICATE

This is to certify that the Internship report on "HOTEL MANAGEMENT SYSTEM" submitted by AKASH S T (4AL20CS010) is work done by him and submitted during the academic year 2023–24, in partial fulfilment of the requirements for the award of the degree of BACHELOR OF ENGINEERING in COMPUTER SCIENCE AND ENGINEERING

BP 7/5/24.

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Department of CSE

Head of the Department
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Examiners

Name	Signature
1)	
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Acknowledgement

First I would like to thank **QSpiders** for giving me the opportunity to do an internship within the organization.

I also would like all the people that worked along with me in **QSpiders** with their patience and openness they created an enjoyable working environment.

It is indeed with a great sense of pleasure and immense sense of gratitude that I acknowledge the help of these individuals.

I am highly indebted to Managing Trustee **Mr. Vivek Alva** and Principal **Dr. Peter Fernandes, Alva's Institute of Engineering and Technology, Mijar** for the facilities provided to accomplish this internship.

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I am extremely grateful to my department staff members and friends who helped me in successful completion of this internship.
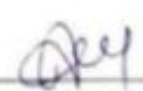
AKASH S T
4AL20CS010

INTERNSHIP CERTIFICATE

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CERTIFICATE
OF INTERNSHIP

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10 SECONDS

IIIT Allahabad

PROUDLY PRESENTED TO:

AKASH SANTOSH THAMBH

For the successful completion of **45 days of Internship Program** on the topic *"Java/Python Full Stack Development, Data Structures & Algorithms, Artificial Intelligence & Machine Learning, Aptitude and Soft Skill Training"* conducted by Training & Assessment Partners and IIIT Allahabad during March/April and August 2023.

Head – Training and
Placements

Head of the
Department

Principal

Alva's Institute of Engineering & Technology, Moodbidri
(Accedited by NAAC with A+ and NBA New Delhi(CSE & ECE))
https://aiet.org.in

ABSTRACT

QSpiders is a best-in-class learning solutions organization headquartered in India's IT capital, Bangalore. It offers a wide range of courses in the area of software testing and are official partners of the ISTQB. A "finishing school" in many ways, the institute provides young job aspirants the perfect launch-pad to build a rewarding career in the growing IT sector. From its humble beginnings, QSpidershas exponentially grown to be the world's largest software testing training organization spread acrosscountries. At QSpiders, It ensure training is imparted by specialists with proven subject matter expertise and who have spent over a decade in their area of specialization. Its faculty are highly competent, skilled and dedicated to giving their best towards the professional development of students.Besides training, It also provide placement assistance to our students and most of the big corporates in the corporate world hire our trained talent. It is indeed our pleasure to have placed over thousands of job-seekers in various IT firms across India over the years with an aim to place thousands more! Building competency into over 5000 students a month, QSpiders is where talent meets opportunity and we believe your search for the dream job or the dream professional ends here.

DAILY LOGS

DAY	DATE	TOPICS COVERED
Day 1-Day10	15/11/2022 – 25/11/2022	Core Java
Day 11-Day 16	01/09/2023 – 05/09/2023	HTML, CSS, JavaScript
Day 17-Day 20	06/09/2023 – 09/09/2023	Servlet, JDBC and Frameworks
Day 21-Day 25	10/09/2023 – 15/09/2023	Core Java
Day 26- Day 32	08/10/2023 – 14/10/2023	Hibernate, Spring Boot, Spring MVC
Day 33-Day 45	15/10/2023 – 28/10/2023	MySQL

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INTERNSHIP OBJECTIVES

The main objective of this internship is to lean both backend and fronted technologies so that workerscan work in any field of software development. To maximize the quality of work in the field of software development. It has been provided to impart practical problem-solving skills which in turn will enhance prospects of career growth.

CHAPTER 1

INTRODUCTION

QSpiders is the world's ace software training organization with an aim to bridge the gap between the demands of the industry and the curriculum of educational institutions. With centers across the Globe, the institute is a platform where young minds are given the opportunity to build successful careers. The company vision is to build an employee fit for agile workspace and provides more software related course which will help us to enlightening our carrier. The company is mainly focusing on Software Development, Software Testing, Core Java and Selenium, API Testing, Java Full Stack Development etc. The company will provide the sufficient training which will be helpful to crack the interview offered by other companies. It also provides placement opportunities for both graduates as well as students in different MNC's. QSpiders, JSpiders and PySpiders hold the record of supplying the highest number of industry-ready technical resources. They can supply over 3500 technical resources at any time to meet the industry's demand.

Fig-1.1 Logo of QSpiders

CONTACT DETAILS:

Websites: https://www.qspiders.com/

Headquarters:

Bangalore

Year Founded:

2003

Chapter 2

ANALYSIS & REQUIREMENT SPECIFICATION

2.1 Purpose

A hotel management system serves as the backbone of efficient operations within the hospitality industry. Its purpose is multifaceted, encompassing various aspects of hotel administration, guest services, and resource management. Primarily, it streamlines reservation processes, allowing guests to book rooms seamlessly while providing staff with real-time updates on room availability. Moreover, it facilitates check-in and check-out procedures, ensuring a smooth and hassle-free experience for guests. Additionally, the system aids in managing inventory, such as room supplies and amenities, as well as tracking expenses and revenue streams. Through integrated functionalities, it enables effective communication between different departments, enhancing coordination and productivity. Furthermore, it plays a crucial role in customer relationship management by storing guest information and preferences, enabling personalized services and fostering loyalty. Ultimately, a robust hotel management system optimizes operations, enhances guest satisfaction, and contributes to the overall success of a hotel establishment.

2.2 Scope

The scope of the project is managing a consistency and storage of data by and dedicated data administrator.1. It provides most of the features that a Database Management System should have. It is developed by using MySQL database. It has been implemented in WINDOWS platform.

2.3 Functional Requirements:

Three modules are used in this project namely Admin, user, planner   Admin: can insert, analyse the   table's User: can register their and information Planner: can plan the process

2.4 Non Functional Requirements:

Hardware specification

Processor	: i5 Core Processor
Clock speed	: 2.5GHz
Monitor	: 1024 * 768 Resolution Color

Chapter 3

DESIGN OF THE PROJECT

3.1 ER Diagram

Fig 3.1 E R Diagram

project has been developed using MySQL software which is queries oriented. Changes at the queries and the way in which it uses a system state may cause anticipated changes in the behaviour of other result.

An entity relationship diagram (ERD), also known as an entity relationship model, is a graphical representation that depicts relationships among people, objects, places, concepts or events within an information technology (IT) system.

This ER (*Entity Relationship*) Diagram represents the model of hotel Management System Entity.
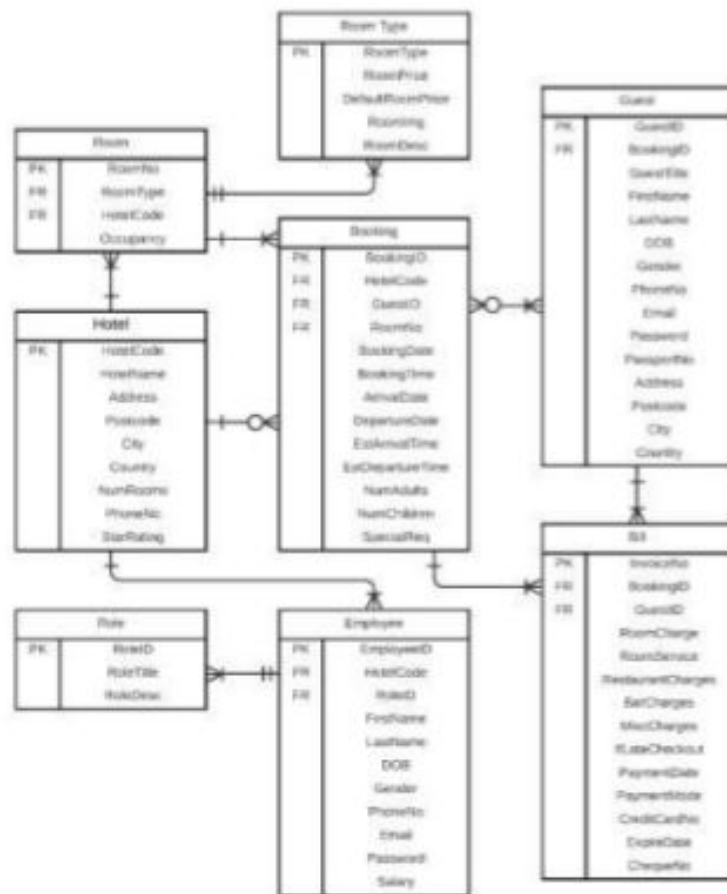
3.2 Schema Diagram

Fig 3.2 Schema Diagram

Schema Diagram represents the model of Wedding Planner Management System Entity. graphical representation that depicts relationships among people, objects, places, concepts or events within an information technology (IT) system.

Chapter 4
IMPLEMENTATION

The project is implemented using MySQL database along with PHP and HTML. In this project, we use the below mentioned concepts for implementing different type of effects like HTML pages to demonstrate on a web page as a stand-alone or web based application.

4.1 Implementation of Table Creation page:

create table planner(

pid varchar(20),

pname varchar(20),

int,gender varchar(10),

primary key(pid)

The tables created are

- Planner
- staff
- department
- guest
- pairs
- venue
- Wedding

4.2 Implementation of Insertion page:

String pid = request.getParameter("pid");

String pname = request.getParameter("pname");

String phno= request.getParameter("phone");

String gender= request.getParameter("gender");

int phone=Integer.parseInt(phno);

Class.forName("com.mysql.jdbc.Driver");

Connection con=DriverManager.getConnection

("jdbc:mysql: //localhost:3306/minipro", "root","password");

PreparedStatement ps=con.prepareStatement("insert into planner values");

(?,?,?,?)"); ps.setString(1,pid); ps.setString(2,pname);

ps.setInt(3,phone); ps.setString(4,gender);

int i=ps.executeUpdate();

{

out.print("You are successfully registered...");

out.print("<center>INSERT");

}

out.print("You are NOT successfully registered..."); %>

Here, we used JSP as a connector between HTML and MYSQL.

4.3 Implementation of trigger:

CREATE DEFINER=`root`@`localhost` TRIGGER

minipro`.`staff_AFTER_INSERT` AFTER INSERT ON `staff` FOR EACH ROW   BEGIN   update

department set total_sal=total_sal+new.salary where did=new.did;

END

Here, when we insert a value into the staff table then in the Department table 'total_sal' attribute will be automatically updated

4.4 Implementation of stored procedure:

CREATE DEFINER=`root`@`localhost`

PROCEDURE `weds`()   BEGIN

select gname from guest;

END

Here, we are creating a procedure called weds and the query is to retrieve the guest name from the guest table.

CHAPTER -5

SOURCE CODE

```sql
Create database bookstore;
use bookstore;
CREATE TABLE IF NOT EXISTS `admin` (
 `name` varchar(20) COLLATE latin1_general_ci NOT NULL,
 `pass` varchar(40) COLLATE latin1_general_ci NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1 COLLATE=latin1_general_ci;


CREATE TABLE IF NOT EXISTS `books` (
 `book_isbn` varchar(20) COLLATE latin1_general_ci NOT NULL,
 `book_title` varchar(60) COLLATE latin1_general_ci DEFAULT NULL,
 `book_author` varchar(60) COLLATE latin1_general_ci DEFAULT NULL,
 `book_image` varchar(40) COLLATE latin1_general_ci DEFAULT NULL,
 `book_descr` text COLLATE latin1_general_ci,
 `book_price` decimal(6,2) NOT NULL,
 `publisherid` int(10) unsigned NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1 COLLATE=latin1_general_ci;


CREATE TABLE IF NOT EXISTS `customers` (
 `customerid` int(10) unsigned NOT NULL,
 `name` varchar(60) COLLATE latin1_general_ci NOT NULL,
 `address` varchar(80) COLLATE latin1_general_ci NOT NULL,
 `city` varchar(30) COLLATE latin1_general_ci NOT NULL,
 `zip_code` varchar(10) COLLATE latin1_general_ci NOT NULL,
 `country` varchar(60) COLLATE latin1_general_ci NOT NULL
) ENGINE=InnoDB AUTO_INCREMENT=4 DEFAULT CHARSET=latin1
COLLATE=latin1_general_ci;


CREATE TABLE IF NOT EXISTS `orders` (
 `orderid` int(10) unsigned NOT NULL,
 `customerid` int(10) unsigned NOT NULL,
 `amount` decimal(6,2) DEFAULT NULL,
 `date` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP,
 `ship_name` char(60) COLLATE latin1_general_ci NOT NULL,
 `ship_address` char(80) COLLATE latin1_general_ci NOT NULL,
 `ship_city` char(30) COLLATE latin1_general_ci NOT NULL,
 `ship_zip_code` char(10) COLLATE latin1_general_ci NOT NULL,
 `ship_country` char(20) COLLATE latin1_general_ci NOT NULL
) ENGINE=InnoDB AUTO_INCREMENT=5 DEFAULT CHARSET=latin1
 COLLATE=latin1_general_ci;
```

```sql
CREATE TABLE IF NOT EXISTS `order_items` (
`orderid` int(10) unsigned NOT NULL,
`book_isbn` varchar(20) COLLATE latin1_general_ci NOT NULL,
`item_price` decimal(6,2) NOT NULL,
`quantity` tinyint(3) unsigned NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1 COLLATE=latin1_general_ci;


CREATE TABLE IF NOT EXISTS `publisher` (
`publisherid` int(10) unsigned NOT NULL,
`publisher_name` varchar(60) COLLATE latin1_general_ci NOT NULL
) ENGINE=InnoDB AUTO_INCREMENT=7 DEFAULT CHARSET=latin1
COLLATE=latin1_general_ci;


INSERT INTO `publisher` (`publisherid`, `publisher_name`) VALUES
(1, 'Wrox'),
(2, 'Wiley'),
(3, 'O''Reilly Media'),
(4, 'Apress'),
(5, 'Packt Publishing'),
(6, 'Addison-Wesley');


ALTER TABLE `admin`
ADD PRIMARY KEY (`name`,`pass`);

ALTER TABLE `books`
ADD PRIMARY KEY (`book_isbn`);

ALTER TABLE `customers`
ADD PRIMARY KEY (`customerid`);

ALTER TABLE `orders`
ADD PRIMARY KEY (`orderid`);

ALTER TABLE `publisher`
ADD PRIMARY KEY (`publisherid`);

ALTER TABLE `customers`
MODIFY `customerid` int(10) unsigned NOT NULL
AUTO_INCREMENT,AUTO_INCREMENT=4;

ALTER TABLE `orders`
MODIFY `orderid` int(10) unsigned NOT NULL
AUTO_INCREMENT,AUTO_INCREMENT=5;

ALTER TABLE `publisher`
MODIFY `publisherid` int(10) unsigned NOT NULL
AUTO_INCREMENT,AUTO_INCREMENT=7;
```
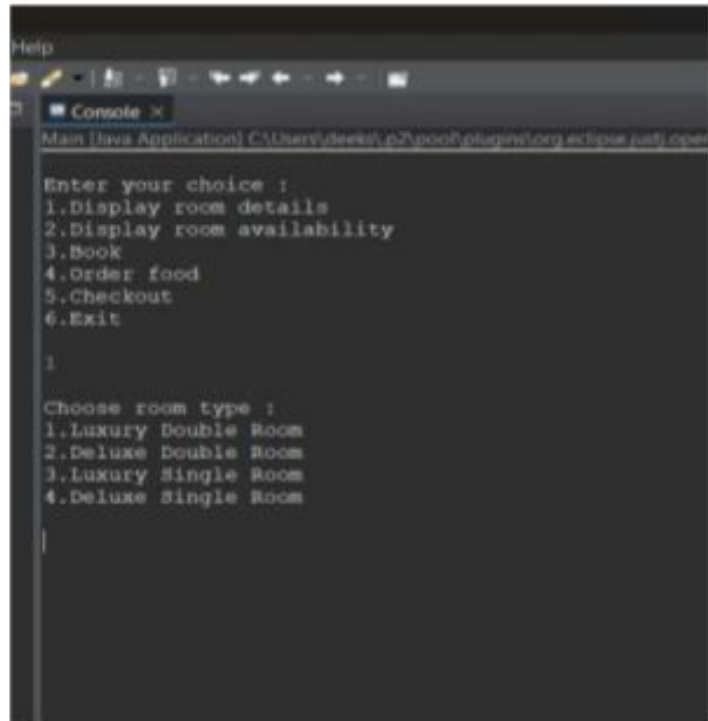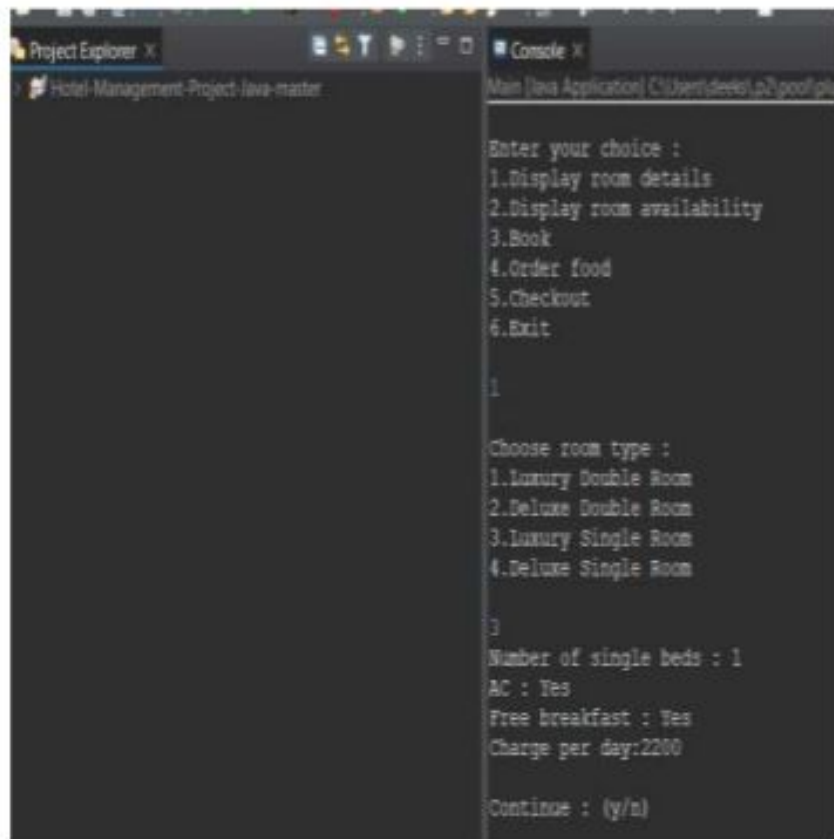
Chapter 6

SNAPSHOTS

5.1

5.2

```
2.Display room availability
3.Book
4.Order food
5.Checkout
6.Exit

1

Choose room type :
1.Luxury Double Room
2.Deluxe Double Room
3.Luxury Single Room
4.Deluxe Single Room

3
Number of single beds : 1
AC : Yes
Free breakfast : Yes
Charge per day:2200

Continue : (y/n)
y

Enter your choice :
1.Display room details
2.Display room availability
3.Book
4.Order food
5.Checkout
6.Exit

1

Choose room type :
1.Luxury Double Room
2.Deluxe Double Room
3.Luxury Single Room
4.Deluxe Single Room
```

5.3

```
Choose room type :
1.Luxury Double Room
2.Deluxe Double Room
3.Luxury Single Room
4.Deluxe Single Room

4

Choose room number from :
41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,
Enter room number: 47

Enter customer name: xyz
Enter contact number: 567890342
Enter gender: female
Room Booked

Continue : (y/n)
y

Enter your choice :
1.Display room details
2.Display room availability
3.Book
4.Order food
5.Checkout
```

5.4

CHAPTER 6

INTERNSHIP BENEFITS

After Completing 45 days of internship in QSpiders I have got idea about different java frameworks, technologies in various IT field for real time application development. This internship help us to overcome the gap between the industrial needs. In these 30 days of internship I learnt lot of java technologies and frameworks like Maven Project, JDBC, Hibernate, Spring Boot, Spring MVC etc. It help me to learn basic knowledge of HTML, CSS, JavaScript and Database like MySQL and Oracle. Provides much knowledge about real time application development using software development practices. Learned to debugging the code to fix the error. Able to work with team and learned how to be a part of team during work.Learnt both frontend and backend technologies for efficient application development.

Chapter 7

CONCLUSION AND FUTURE ENHANCEMENT

CONCLUSION

In conclusion, a hotel management system is an indispensable tool for modern hospitality establishments, offering a comprehensive solution to streamline operations and enhance guest experiences. By facilitating efficient reservation processes, managing inventory, and enabling effective communication between departments, it optimizes resource utilization and boosts productivity. Moreover, its role in customer relationship management fosters personalized services and guest loyalty, ultimately contributing to the success and profitability of the hotel. In an era where seamless service and guest satisfaction are paramount, investing in a robust hotel management system is not just beneficial but essential for staying competitive in the hospitality industry.

FUTURE ENHANCEMENT

Looking ahead, the future of hotel management systems holds exciting possibilities for further enhancement and innovation. One area of focus is the integration of advanced technologies such as artificial intelligence (AI) and machine learning. These technologies can revolutionize various aspects of hotel operations, from predictive analytics for demand forecasting and pricing optimization to personalized recommendations for guests based on their preferences and past behaviors. Additionally, the incorporation of Internet of Things (IoT) devices can enable seamless automation and monitoring of hotel facilities, enhancing energy efficiency and ensuring proactive maintenance.

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