



**University Of Mumbai**

BACHELOR OF SCIENCE

**(INFORMATION TECHNOLOGY)**

# **Beauty Parlour Management System**

## **A Project Report**

Submitted in partial fulfilment of the  
Requirements for the award of the Degree of

**BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY)**

**BY**

Sakshi Suresh Kolhal

Seat No:

Under the esteemed guidance of

**Ms. Shruti Patil**

**Head of IT Department**



**DEPARTMENT OF INFORMATION TECHNOLOGY**

**SMT. K.L TIWARI COLLEGE**

*(Affiliated to University of Mumbai)*

**NALASOPARA(W), 401203 MAHARASHTRA**

**YEAR -2024-25**

## PROFORMA FOR THE APPROVAL PROJECT PROPOSAL

*(Note: All entries of the proforma of approval should be filled up with appropriate and complete information. Incomplete proforma of approval in any respect will be summarily rejected.)*

PNR No.: **2022016401946483**

Roll no: 12

1. Name of the Student: **Kolhal Sakshi Suresh**
  
2. Title of the Project: **Beauty Parlour Management System**
  
2. Name of the Guide: **Ms. Shruti Patil**
  
3. Teaching experience of the Guide: **5 Years**
  
4. Is this your first submission? **Yes**

Signature of the Student

Signature of the Guide

Date: .....

Date: .....

Signature of the Coordinator

Date: .....



## **CERTIFICATE**

This is to certify that the project entitled, " **Beauty Parlour Management System** ", is Bonafede work of bearing Seat. No                      submitted in partial fulfilment of the requirements for the award of degree of BACHELOR OF SCIENCE in INFORMATION TECHNOLOGY from University of Mumbai.

**Internal Guide**

**Coordinator**

**External Examiner**

**Date:**

**Principal**

**College Seal**

# ABSTRACT

The **Beauty Parlour Management System** aims to design and develop a comprehensive platform that simplifies and streamlines the operations of a beauty salon. This project addresses the need for efficient handling of customer appointments, staff scheduling, inventory management, billing, and service tracking while providing a user-friendly interface. The system automates various administrative tasks such as appointment booking, payment processing, employee management, and customer feedback collection, reducing the workload on staff and enhancing the overall customer experience.

The primary objective of the project is to create a centralized platform that enables seamless communication between the salon's management, staff, and customers, allowing real-time access to important information like available services, stylist schedules, and promotional offers. The system also integrates with customer preference tracking, enabling personalized recommendations and loyalty programs to enhance customer satisfaction.

By implementing this **Beauty Parlour Management System**, salons can improve their operational efficiency, enhance customer engagement, and provide high-quality services, leading to increased customer retention and business growth. Additionally, the built-in data analytics feature allows salon owners to monitor trends, track revenue, and optimize resource allocation for better decision-making.

## ACKNOWLEDGEMENT

It brings me great pleasure for an opportunity to work and submit my training report on **“Beauty Parlour Management System”**. For this I deeply indebted and sincerely thankful to MS. SHRUTI PATIL of SMT. K.L TIWARI COLLEGE for the help, invaluable guidance and elating encouragement throughout the course of present work.

I would like to acknowledge the cooperation of various other staff member of SMT. K.L. TIWARI COLLEGE who helped me in completing my project.

Finally, I am deeply thankful to my parents and friends who helped me and inspired me in completing This Project.

## DECLARATION

I hereby declare that the project entitled, “**Beauty Parlour Management System**” done at **place where the project is done**, has not been in any case duplicated to submit to any other university for the award of any degree. To the best of my knowledge other than me, no one has submitted to any other university.

The project is done in partial fulfilment of the requirements for the award of degree of **BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY)** to be submitted as final semester project as part of our curriculum.

**Name and Signature of the Student**

## TABLE OF CONTENTS

Sr. No.	Description	Page no.
	<b>CHAPTER 1: INTRODUCTION</b>	11
1	1.1 Background	11
2	1.2 Objectives	11
3	1.3 Purpose, Scope, and Applicability	11
4	1.3.1 Purpose	11
5	1.3.2 Scope	12
6	1.3.3 Applicability	13
7	1.4 Achievements	14
8	1.5 Organisation of Report	14
	<b>CHAPTER 2: SURVEY OF TECHNOLOGIES</b>	15
9	2.1 introduction	14
10	2.2 Front end Programming Languages (HTML,CSS,JS)	14
11	2.3 Back end Programming Languages (PHP,SQL)	15
	<b>CHAPTER 3: REQUIREMENTS AND ANALYSIS</b>	27
11	3.1 Problem Definition	28
12	3.2 Requirements Specification	30
13	3.3 Planning and Scheduling (gantt , pert)	32
14	3.4 Software and Hardware Requirements	34
15	3.5 Preliminary Product Description	38
16	3.6 Conceptual Models (Data Flow Diagrams, ER diagrams, Object-oriented diagrams, System Flowcharts etc.)	40

	<b>CHAPTER 4: SYSTEM DESIGN<sub>7</sub></b>	44
17	4.1 Basic Modules	45
18	4.2 Data Design	46
19	4.2.1 Schema Design	47
20	4.2.2 Data Integrity and Constraints	48
21	4.3 Procedural Design	48
22	4.3.1 Logic Diagrams	48
23	4.3.2 Data Structures	48
24	4.3.3 Algorithms Design	49
25	4.4 User interface design	49
26	4.5 Security Issues	50
27	4.6 Test Cases Design	51
28	<b>CHAPTER 5 IMPLEMENTATION &amp; TESTING</b>	52
29	5.1 Implementation	53
30	5.2 Testing	77
31	<b>CHAPTER 6: RESULTS AND DISCUSSION</b>	80
32	6.1.2 Usability and User Exeperience	81
33	6.1.3 Functionality and Performance	84
34	6.1.4 Security Testing	85
35	6.1.5 Scalability and Future Enhancement	86
36	<b>CHAPTER 7: CONCLUSIONS</b>	89



## **LIST OF TABLES**

List of Tables	Page no
Gantt Chart	30
Pert Chart	31
Parlour Attributes	33
Admin Attributes	34
Class Diagram Attributes	35

# LIST OF FIGURES

SR. NO	LIST OF FIGURES	PAGE NO
1	Gantt Chart	30
2	Pert Chart	31
3	Data-Flow Diagram (DFD)	42
4	Entity Relationship Diagram (ER)	35
5	Class Diagram	38
6	Use-Case Diagram	36
7	Activity Diagram	40
8	Sequence Diagram	39
9	Basic Module	44
10	Schema Diagram	45
11	System Process Flow Diagram	43
12	User Process Flow Diagram	46

# **Beauty Parlour Management System**

## **CHAPTER 1: INTRODUCTION**

The aim of the project is to permit customers to service their desired cosmetics. Beauty provides an online way of reservation cosmetic services and also provides a window for customers for their selected services. The Beauty parlour management System processes manage the various task related to the system.

This system is used to parlour details like service detail, orders detail, customer information, etc. This system helps to make the customer easy for online services system.

The Beauty parlour provides an interactive display to the customers with all the facilities. This website will be useful to all those customers who is wishing to make an appointment best online.

### **1.1 Background:**

The beauty industry has seen significant growth in recent years, leading to increased demand for professional beauty services. With the expansion of beauty parlours, the need for efficient management systems has become essential. Traditional methods of managing appointments, customer records, and inventory often lead to errors and inefficiencies. A Beauty Parlour Management System aims to address these challenges by providing a digital solution to automate and streamline operations. This system ensures better customer service, effective staff management, and optimized business processes, thereby enhancing overall productivity and profitability.

### **1.2 Objectives:**

The primary objectives of the Beauty Parlour Management System are:

- To automate appointment scheduling and reduce booking conflicts.
- To maintain an organized database of customers, staff, and services.

- To manage inventory effectively and ensure timely restocking.
- To generate accurate billing and invoices.
- To enhance customer satisfaction through efficient service management.
- To provide detailed reports for business analysis and decision-making.

### **1.3 Purpose, Scope and Applicability:**

#### **Purpose-**

The purpose of the Beauty Parlour Management System is to provide a comprehensive and automated platform for managing beauty parlour operations efficiently. It aims to reduce manual workload, improve service quality, and enhance overall business performance. By integrating various management functions into a single system, the solution ensures accuracy, transparency, and efficiency in daily operations.

#### **Scope-**

The system will cater to beauty parlours of various sizes, from small salons to large beauty centre. It encompasses functionalities such as:

- Customer registration and profile management.
- Online and offline appointment booking.
- Employee scheduling and salary management.
- Inventory tracking and product management.
- Automated billing and payment processing.
- Reports and analytics for business insights.

#### **Applicability-**

The Beauty Parlour Management System is applicable to a wide range of beauty service providers, including:

- Beauty parlours and salons.
- Spa and wellness centre
- Freelance beauty professionals.
- Cosmetology clinics.
- Bridal and makeup studios.

## **1.4 Achievements**

The Beauty Parlour Management System has successfully addressed several key challenges in the industry, leading to significant improvements in operations and customer satisfaction. The main achievements include:

- **Improved Appointment Management:** Streamlined booking system reducing scheduling conflicts and wait times.
- **Enhanced Customer Experience:** Personalized customer profiles and service history tracking for better service delivery.
- **Efficient Staff Management:** Automated work schedules, payroll management, and performance tracking.
- **Optimized Inventory Control:** Real-time tracking of products and automated restocking alerts.
- **Accurate Billing and Invoicing:** Reduction in billing errors and faster transaction processing.
- **Data-Driven Insights:** Advanced reporting and analytics for informed business decisions.

## **1.5 Organization of Report:**

- This section provides the work framework of the system.
- The project consists of four chapters:
- **Chapter 1:** Introduction of the project.

- **Chapter 2:** Discussion of the survey of technologies to be used.
- **Chapter 3:** Explanation of problem definition, requirements specification and planning phase.
  - It also includes conceptual models.
- **Chapter 4:** Design, covering the logical design for all aspects of the project. It includes various types of system designs.

## **Chapter 2 - Survey Of Technologies**

In the rapidly evolving landscape of beauty and wellness services, the integration of technology has become paramount for enhancing operational efficiency, improving customer experience, and driving business growth. This chapter delves into the various technologies that are shaping the beauty parlour management system, providing a comprehensive overview of the tools and platforms that facilitate effective management of beauty services.

The beauty industry has witnessed a significant transformation with the advent of digital solutions, ranging from appointment scheduling software to customer relationship management (CRM) systems. These technologies not only streamline day-to-day operations but also empower beauty professionals to focus on delivering exceptional services to their clients. As consumer expectations continue to rise, the need for innovative solutions that cater to these demands has never been more critical.

In this chapter, we will explore the key technologies that are currently being utilized in beauty parlour management, including cloud computing, mobile applications, point-of-sale (POS) systems, and data analytics. We will also examine the impact of social media and online marketing tools in attracting and retaining customers. By understanding these technologies, beauty parlour owners and managers can make informed decisions that enhance their service offerings and improve overall business performance.

Through a detailed survey of these technologies, this chapter aims to provide insights into how they can be effectively leveraged to create a seamless and efficient beauty parlour management system, ultimately leading to increased customer satisfaction and loyalty.

## **Frontend Programming Languages:**

### **FRONT END**



### **HTML**

HTML refers to the code that defines the structure and content of a web page. It's the foundation that you build upon to create the visual elements users see in their web browsers. Here's a basic breakdown of HTML for frontend development:

- HTML uses a series of tags to define different parts of a web page. These tags act like containers of
- r content and instructions for the browser on how to display it.
- Common tags include:



- o `<html>`: The root element of an HTML document.
- o `<head>`: Contains meta information about the page (title, character encoding).
- o `<body>`: Contains the

visible content of the web page (text, images, links).

- o `<h1>` to `<h6>`: Define headings of different sizes.

- o `<p>`: Defines a paragraph of text.

- o `<a>`: Defines a hyperlink (link to another web page).

- o `<img>`: Defines an image element.

- HTML tags enclose the content that appears on the web page. This content can be text, images, videos, forms, and more.

- While HTML defines the structure and content, it doesn't directly control the visual appearance of the page (colours, fonts, layout).

- Cascading Style Sheets (CSS) are used to style the HTML elements and define how they are displayed on the web page.

## CSS

Cascading Style Sheets (CSS) is a stylesheet language used for describing the presentation of a document written in HTML or XML. It's one of the core technologies alongside HTML and JavaScript that form the foundation of the World Wide Web. Here's a deeper dive into CSS:

- CSS separates the presentation (visuals) of a web page from its content (structure) defined in HTML.

- This separation allows for easier maintenance and modification of the web page's appearance.

- With CSS, you can control various aspects of a web page's visual design, such as:
  - Fonts (typeface, size, colours) or Colours (background, text, borders) o Spacing (margins, padding) o Layout (positioning of elements)
  - Borders and shadows

Responsiveness (adapting to different screen sizes)

- **Improved Maintainability:** Separating presentation from content makes updates easier. You can modify the stylesheet to change the appearance of the entire website without altering the HTML structure.
- **Enhanced Design Control:** CSS offers granular control over visual elements, allowing for a consistent and professional look across your web pages.
- **Responsive Design:** CSS allows you to create responsive web pages that adapt their layout to different screen sizes (desktop, mobile, tablet), ensuring an optimal user experience for all devices.

## **JAVASCRIPT**

JavaScript (JS) is a versatile programming language that adds interactivity and dynamism to web pages. It's one of the three core technologies (alongside HTML and CSS) that form the foundation of the web. Here's a breakdown of JavaScript:

### **What does JavaScript do?**

- JavaScript enables web pages to:
  - Respond to user actions (clicks, form submissions, mouse movements). o Update content dynamically without reloading the entire page.
  - Create animations and interactive elements.

- Communicate with servers to retrieve or send data.
- JavaScript can also be used beyond web development in various environments like Node.js for server-side scripting and game development with frameworks like Phaser.

### **How does JavaScript work?**

- JavaScript code can be embedded within HTML documents using `<script>` tags.
- Alternatively, it can be loaded from external .js files for better organization and reusability.
- JavaScript uses a syntax similar to other programming languages like C or Java, with variables, functions, conditional statements, and loops.

### **Key Concepts in JavaScript:**

- **Variables:** Store data (numbers, text) and can be changed throughout the program.
- **Functions:** Reusable blocks of code that perform specific tasks.
- **Events:** User interactions or browser actions that trigger JavaScript code execution.
- **DOM (Document Object Model):** A representation of the web page structure that JavaScript can manipulate to update content, styles, and layout.

### **Benefits of using JavaScript:**

- **Enhanced User Experience:** JavaScript enables interactive elements, making web pages more engaging and user-friendly.

- **Dynamic Content:** You can update content and web page elements without reloading the entire page, providing a smoother user experience.
- **Rich Web Applications (RWAs):** JavaScript allows creating complex web applications that rival desktop software in functionality.
- **Versatility:** JavaScript's reach extends beyond web development, making it a valuable skill for various programming domains.



## **BOOTSTRAP**

Bootstrap is a free and open-source front-end framework widely used for developing responsive websites. It utilizes HTML, CSS, and optionally JavaScript to simplify the process of creating visually appealing and functional web pages. Here's a closer look at Bootstrap:

### **Key Features of Bootstrap:**

- **Responsive Design:** Bootstrap's core strength lies in its ability to create responsive web pages that adapt their layout to different screen sizes (desktop, mobile, tablet). This ensures an optimal viewing experience across various devices.
- **Pre-built Components:** Bootstrap provides a rich collection of pre-built components like buttons, forms, navigation bars, modals, and more. These

components are styled and coded, saving developers time and effort while maintaining consistency throughout the website.

- **Grid System:** Bootstrap offers a flexible grid system for arranging website content in rows and columns. This grid system makes it easy to create complex layouts with responsive behaviour.
- **Customization:** While Bootstrap provides pre-built components and styles, it allows for extensive customization through CSS overrides and custom classes. You can tailor the look and feel of your website to match your specific brand identity.
- **JavaScript Plugins (Optional):** Bootstrap offers optional JavaScript plugins that add interactivity and functionality to your web pages. These plugins include features like popovers, tooltips, carousels, and modals.

### **Benefits of Using Bootstrap:**

- **Rapid Development:** Pre-built components and a well-established grid system enable developers to create websites faster compared to building everything from scratch.
- **Responsive Design Made Easy:** Bootstrap simplifies the process of creating responsive layouts, ensuring your website looks good on all devices.
- **Consistent Design:** Bootstrap promotes consistency in website design by providing pre-styled components and a standardized grid system.
- **Large Community:** Bootstrap has a vast and active community of developers, offering extensive documentation, tutorials, and support.

## **Backend Programming Languages:**



### **PHP:**

**PHP** (Hypertext Preprocessor) is a general-purpose scripting language widely used for creating dynamic and interactive web pages. It's executed on the server-side before the web page is sent to the user's browser. Here's a breakdown of PHP:

#### **What does PHP do?**

- PHP allows you to:
  - Generate dynamic content based on user input or data stored in a database.
  - Interact with databases to retrieve, store, and manipulate data.
  - Create interactive web applications with features like user login, form processing, and session management.
  - Send and receive cookies to track user preferences and maintain session state.
- PHP code is embedded within HTML documents using special tags like `<?php ?>`. This allows you to seamlessly blend PHP code with HTML to generate dynamic content.

## Key Concepts in PHP:

- **Variables:** Store data (numbers, text) and can be used throughout your script.
- **Functions:** Reusable blocks of code that perform specific tasks.
- **Conditional Statements:** Control the flow of your program based on certain conditions.
- **Loops:** Repetitive execution of code blocks.
- **Arrays:** Ordered collections of data items of various types.
- **Forms:** Collect user input through HTML forms and process it using PHP.
- **Databases:** Connect to databases like MySQL to store and retrieve data.

## Benefits of using PHP:

- **Server-Side Scripting:** PHP code executes on the server before sending the web page to the user's browser. This keeps sensitive information like database credentials hidden from users and enhances security.
- **Database Interaction:** PHP seamlessly connects and interacts with databases, making it ideal for building data-driven web applications.
- **Wide Adoption:** PHP is one of the most popular web scripting languages, with a vast community and extensive resources available for learning and support.
- **Flexibility:** PHP can be used for various web development projects, from simple dynamic pages to complex web applications.



## **MYSQL:**

MySQL is a popular open-source relational database management system (RDBMS) widely used for storing, managing, and retrieving data in web applications. Here's a detailed look at

MySQL:

**What is MySQL?** ➤ MySQL is a structured query language (SQL) database management system.

- It organizes data into tables with rows and columns, enabling efficient storage, access, and manipulation of information. ➤ MySQL is known for its:

**Reliability:** Proven track record of stability and performance.

**Scalability:** Ability to handle large datasets and accommodate growing applications.

**Security:** Offers robust security features to protect sensitive data.

**Ease of Use:** Relatively user-friendly for both beginners and experienced database administrators.

**Open-source nature:** Freely available and backed by a large community.

**How does MySQL work?**



- A MySQL database server stores data in tables. Each table has a defined structure with columns representing specific data attributes and rows containing individual data entries.
- Users interact with MySQL databases using SQL, a standardized language for querying and manipulating data.
- SQL statements allow you to:
  - Create, alter, and delete tables.
  - Insert, update, and delete data records.
  - Retrieve specific data based on various criteria.
  - Join tables to establish relationships between data sets.

### **Applications of MySQL:**

- MySQL is a versatile database solution used in various web applications, including:

**E-commerce platforms:** Manage product information, customer details, and order data.

**Content management systems (CMS):** Store website content, user accounts, and configuration settings.

**Social networking platforms:** Handle user profiles, connections, and activity data.

**Blogging platforms:** Manage blog posts, comments, and user accounts.

**Inventory management systems:** Track product stock levels, orders, and supplier information.

## **Benefits of using MySQL:**

- **Open-source and Free:** Freely available and reduces licensing costs compared to proprietary database solutions.
- **Cross-platform compatibility:** Runs on various operating systems like Linux, Windows, and macOS.
- **Large and Active Community:** Extensive documentation, tutorials, and support from a vast community of users and developers.
- **Relatively easy to learn:** SQL offers a clear syntax for interacting with databases, making it accessible for beginners.
- **Scalable and Secure:** Can handle large datasets and provides robust security features to protect sensitive information.

## **Chapter 3: Requirements and Analysis**

In the development of a Beauty Parlour Management System, a thorough understanding of the requirements is essential to ensure that the system meets the needs of both the business and its clients. This chapter outlines the functional and non-functional requirements of the system, as well as an analysis of the current challenges faced by beauty parlours. By identifying these requirements, we can create a robust framework that addresses the specific needs of beauty service providers and enhances the overall customer experience.

### **3.1 Functional Requirements**

Functional requirements define the specific behaviour and functions of the system. For a Beauty Parlour Management System, the following key functionalities are essential:

1. **Appointment Scheduling:**

- Users should be able to book, reschedule, and cancel appointments online.
- The system should provide real-time availability of services and staff.

2. **Customer Management:**

- The system should maintain a database of customer profiles, including contact information, service history, and preferences.
- It should allow for easy retrieval and updating of customer information.

3. **Service Management:**

- The system should enable the addition, modification, and removal of services offered by the parlour.
- Pricing and duration for each service should be easily configurable.

4. **Staff Management:**

- The system should allow for the management of staff profiles, including schedules, roles, and performance tracking.
- Staff should be able to log in to view their appointments and manage their schedules.

5. **Billing and Payment Processing:**

- The system should facilitate invoicing and payment processing, including support for various payment methods (credit/debit cards, mobile payments, etc.).

- It should generate financial reports for sales tracking and analysis.

#### 6. **Marketing and Promotions:**

- The system should support the creation and management of promotional campaigns and discounts.
- Integration with email and SMS marketing tools for customer outreach.

#### 7. **Feedback and Reviews:**

- Customers should be able to provide feedback and reviews on services received.
- The system should allow management to respond to customer feedback.

### **3.2 Non-Functional Requirements**

Non-functional requirements define the quality attributes of the system. For the Beauty Parlour Management System, the following non-functional requirements are critical:

#### 1. **Usability:**

- The system should have an intuitive user interface that is easy to navigate for both staff and customers.
- Training materials and support should be available to assist users.

#### 2. **Performance:**

- The system should be capable of handling multiple concurrent users without significant delays.
- Response times for booking and processing transactions should be minimal.

#### 3. **Security:**

- Customer data must be protected through encryption and secure access controls.
- The system should comply with relevant data protection regulations.

#### 4. **Scalability:**

- The system should be designed to accommodate future growth, allowing for the addition of new services, staff, and locations without major overhauls.

5. **Reliability:**

- The system should have a high uptime and be resilient to failures, with backup and recovery processes in place.

6. **Integration:**

- The system should be able to integrate with third-party applications, such as accounting software and marketing platforms, to enhance functionality.

### **3.3 Analysis of Current Challenges**

Before implementing the Beauty Parlour Management System, it is crucial to analyze the current challenges faced by beauty parlours:

1. **Inefficient Appointment Management:**

- Many parlours still rely on manual booking methods, leading to scheduling conflicts and lost revenue.

2. **Lack of Customer Insights:**

- Without a centralized system, parlours struggle to track customer preferences and service history, hindering personalized service.

3. **Inconsistent Marketing Efforts:**

- Many parlours lack effective marketing strategies, resulting in missed opportunities for customer engagement and retention.

4. **Financial Management Issues:**

- Manual billing processes can lead to errors and difficulties in tracking sales and expenses.

5. **Staff Coordination Challenges:**

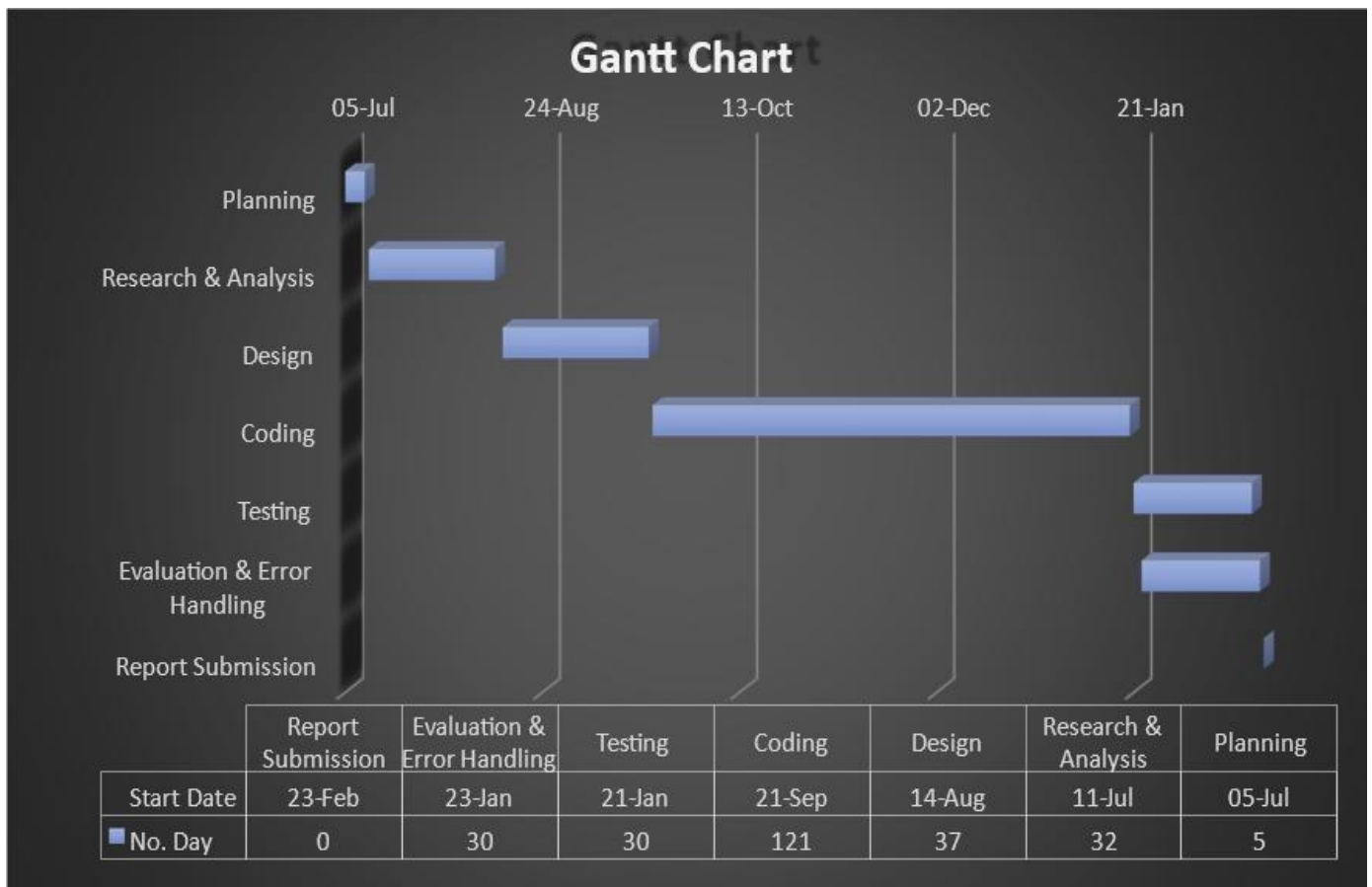
- Managing staff schedules and performance can be cumbersome without a dedicated system.

By addressing these challenges through the implementation of a comprehensive Beauty Parlour Management System, parlours can enhance their operational efficiency, improve customer

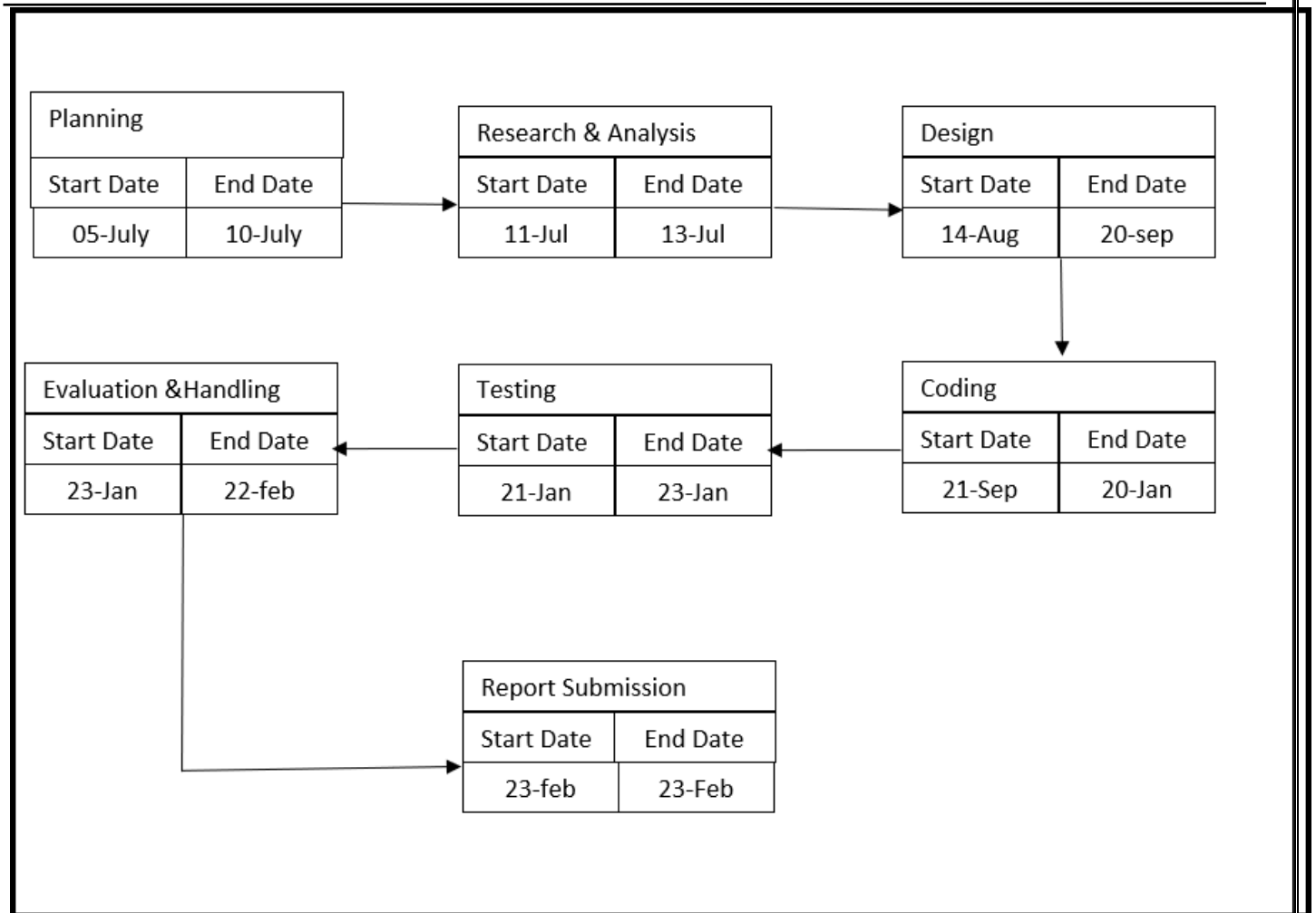
satisfaction, and ultimately drive business growth. This chapter sets the foundation for the subsequent design and development phases, ensuring that the system is tailored to meet the specific needs of beauty service provider.

### 3.4 Planning & Scheduling: (Gantt Chart, Pert Chart)

- **Beauty Parlour Management System**



- **Beauty Parlour Management System (Pert Chart)**



## **3.5 Hardware and Software Requirements:**

### **Hardware Requirements:**

The Beauty parlour management system shall provide minimum hardware requirements. The following hardware configurations are required for the PC for use in the Beauty parlour management system.

- Hard Disk: 2GB or more of free space.
- RAM: 2 GB / 4 GB / 8 GB RAM.
- Processor: Any mobile and computer processor.

### **Software Requirements**

- This section lists the requirements that are needed to run the system efficiently. The operating system needed for the system to run effectively, the interface to run the application, the integrated development environment to develop the environment and the other tools used for editing purposes are as follows: ➤ Operating System: Windows 10, MAC OS, or Linux ➤ Database: MYSQL.
- Server: Apache
- Platform Used: PHP
- Editor Used: Visual Studio Code/Notepad++/Sublime etc.
- Browser Supported: Google Chrome, Internet Explorer, Safari, Microsoft Edge.



## ➤ Attributes

staff		
#	id	INT
🕒	created_at	DATE
≡	name	TEXT
≡	role	TEXT
≡	contact	TEXT
%	salary	DECIMAL

customer		
#	id	INT
🕒	created_at	DATE
≡	name	TEXT
≡	contact	TEXT
✉	email	EMAIL
🔒	password	PASSWORD

appointment		
#	id	INT
🕒	created_at	DATE
∞	customer_id	INT
∞	staff_id	INT
📅	date	DATE
🕒	time	DATE
≡	status	TEXT

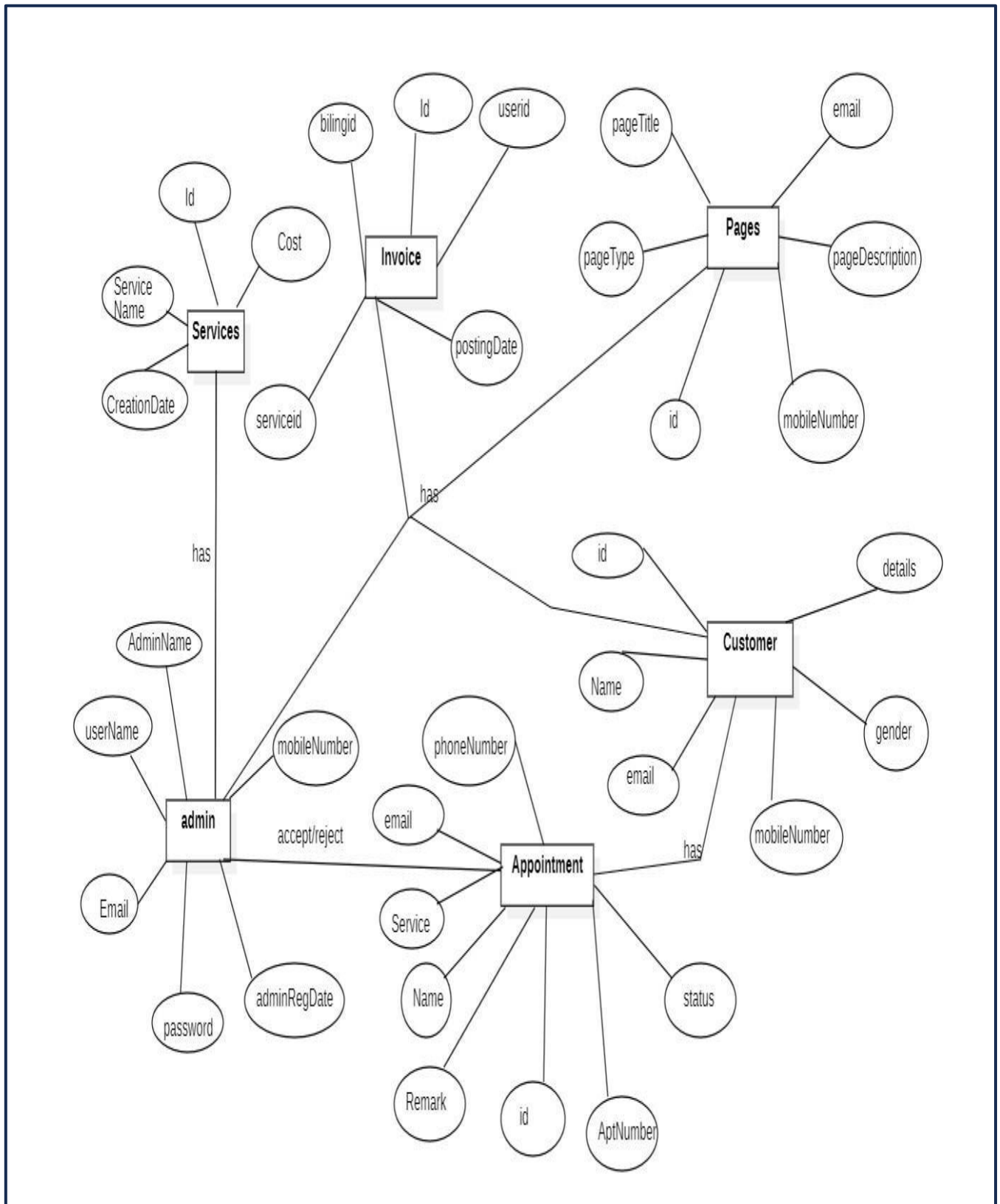
payment		
#	id	INT
🕒	created_at	DATE
🔗	appointment_id	INT
%	amount	DECIMAL
≡	payment_method	TEXT
≡	status	TEXT

feedback		
#	id	INT
🕒	created_at	DATE
🔗	customer_id	INT
🔗	service_id	INT
#	rating	INT
≡	comments	TEXT

service		
#	id	INT
🕒	created_at	DATE
≡	name	TEXT
≡	description	TEXT
%	price	DECIMAL
#	duration	INT

### 3.6 Conceptual Models:

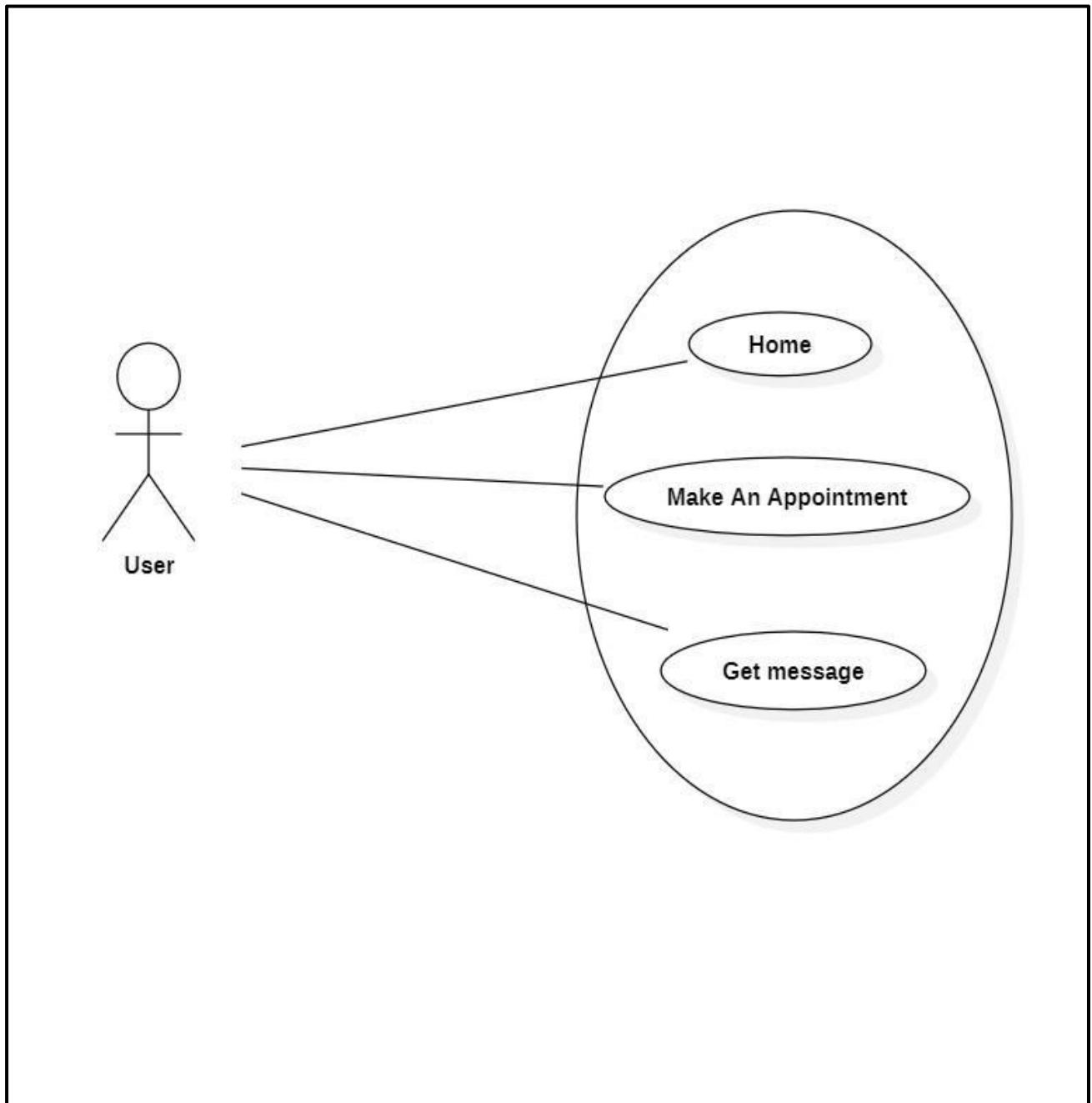
#### ER DIAGRAM:



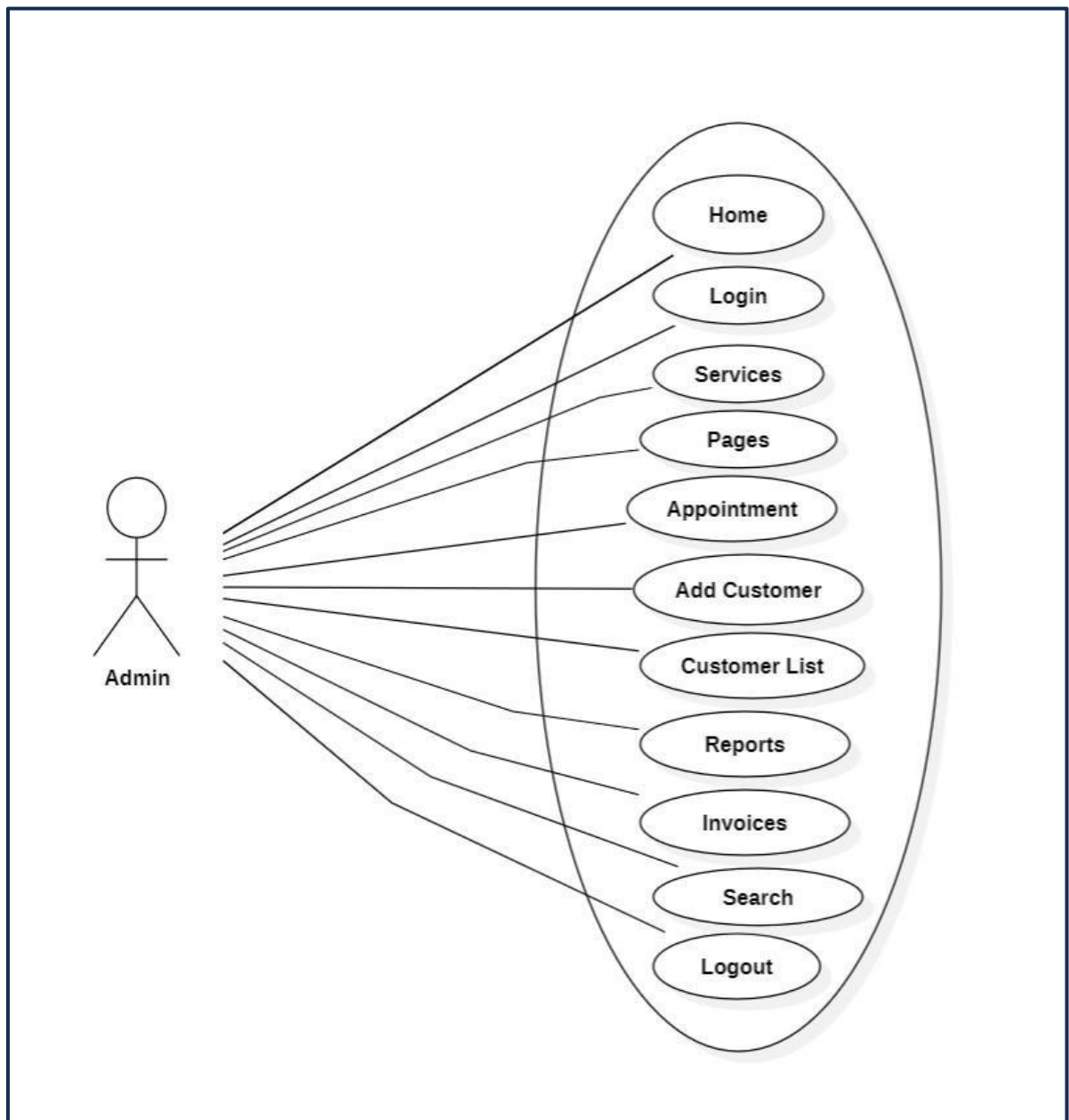
## UML DIAGRAM:

### USECASE DIAGRAM

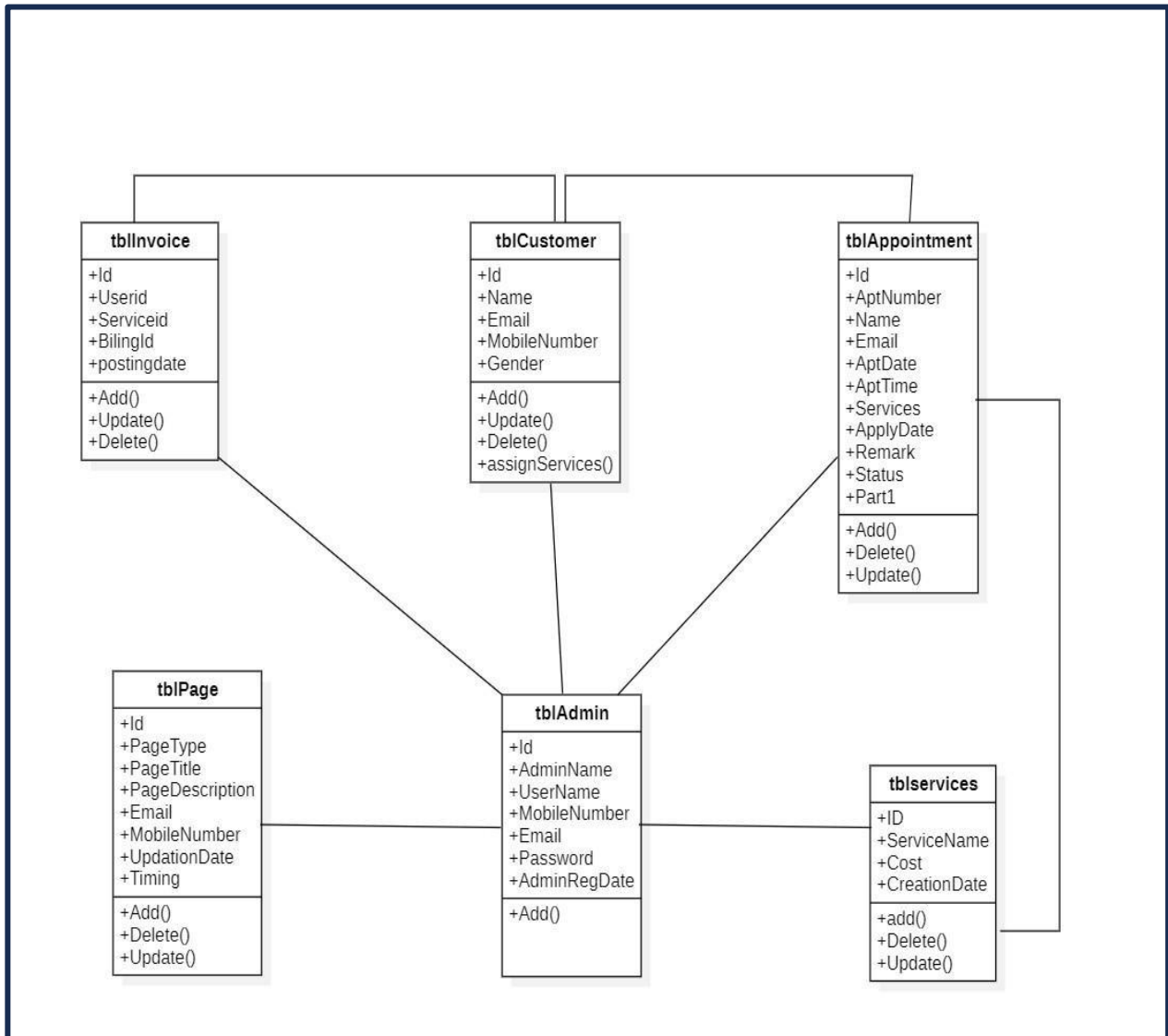
User/guest



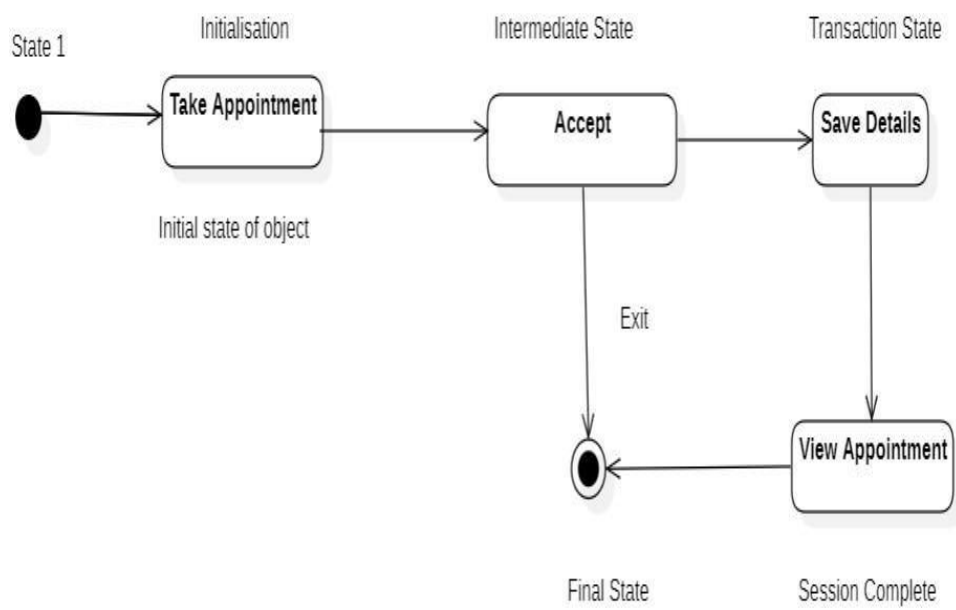
## Admin use case



# CLASS DIAGRAM

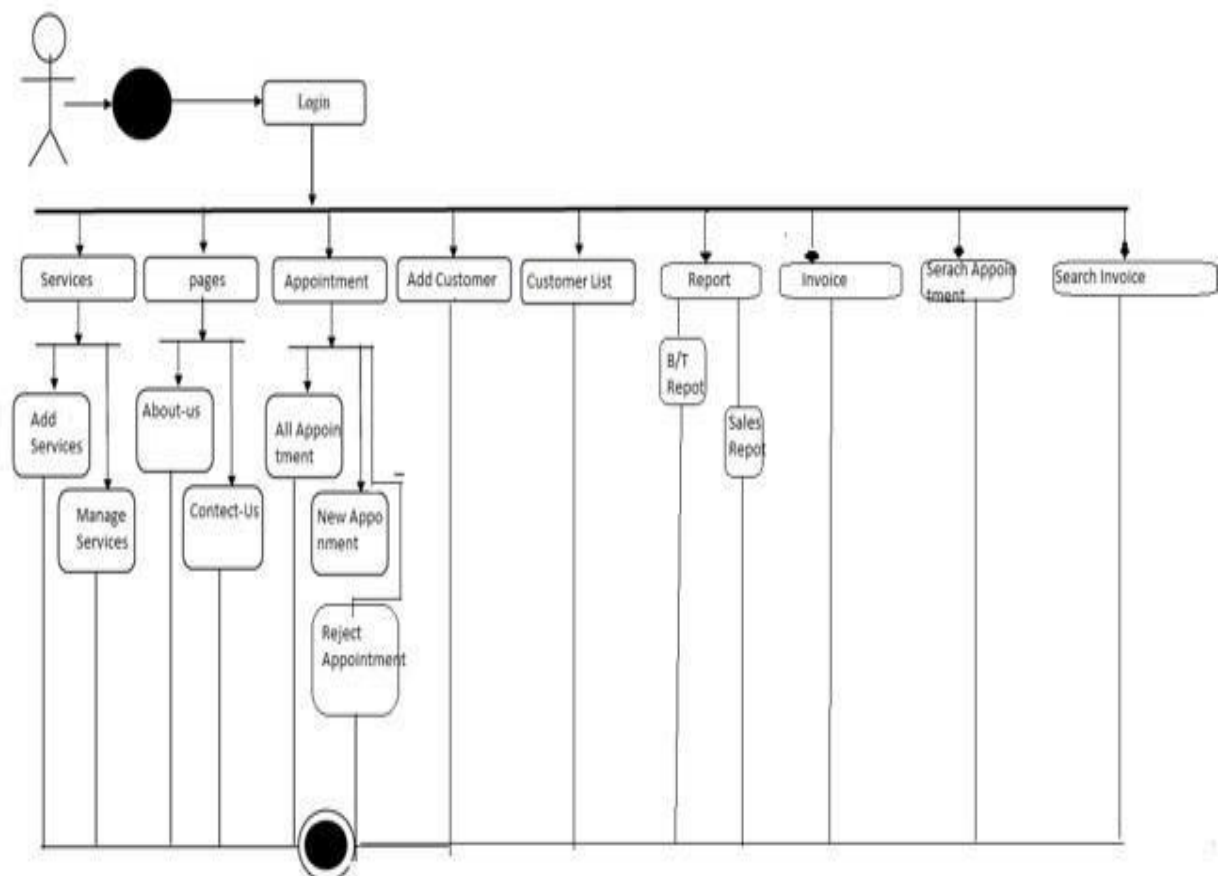


## STATE DIAGRAM



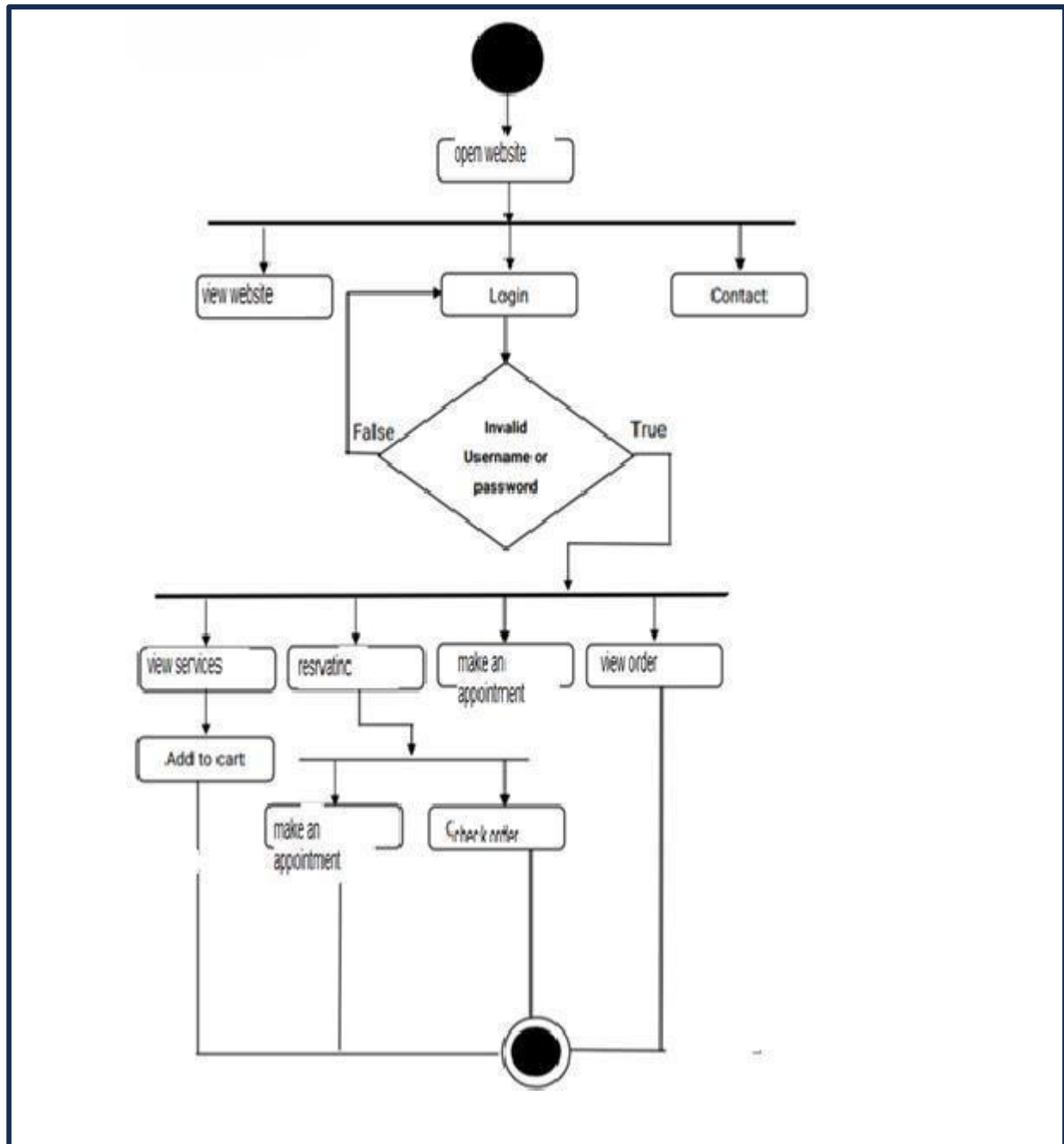
# ACTIVITY DIAGRAM

## Admin

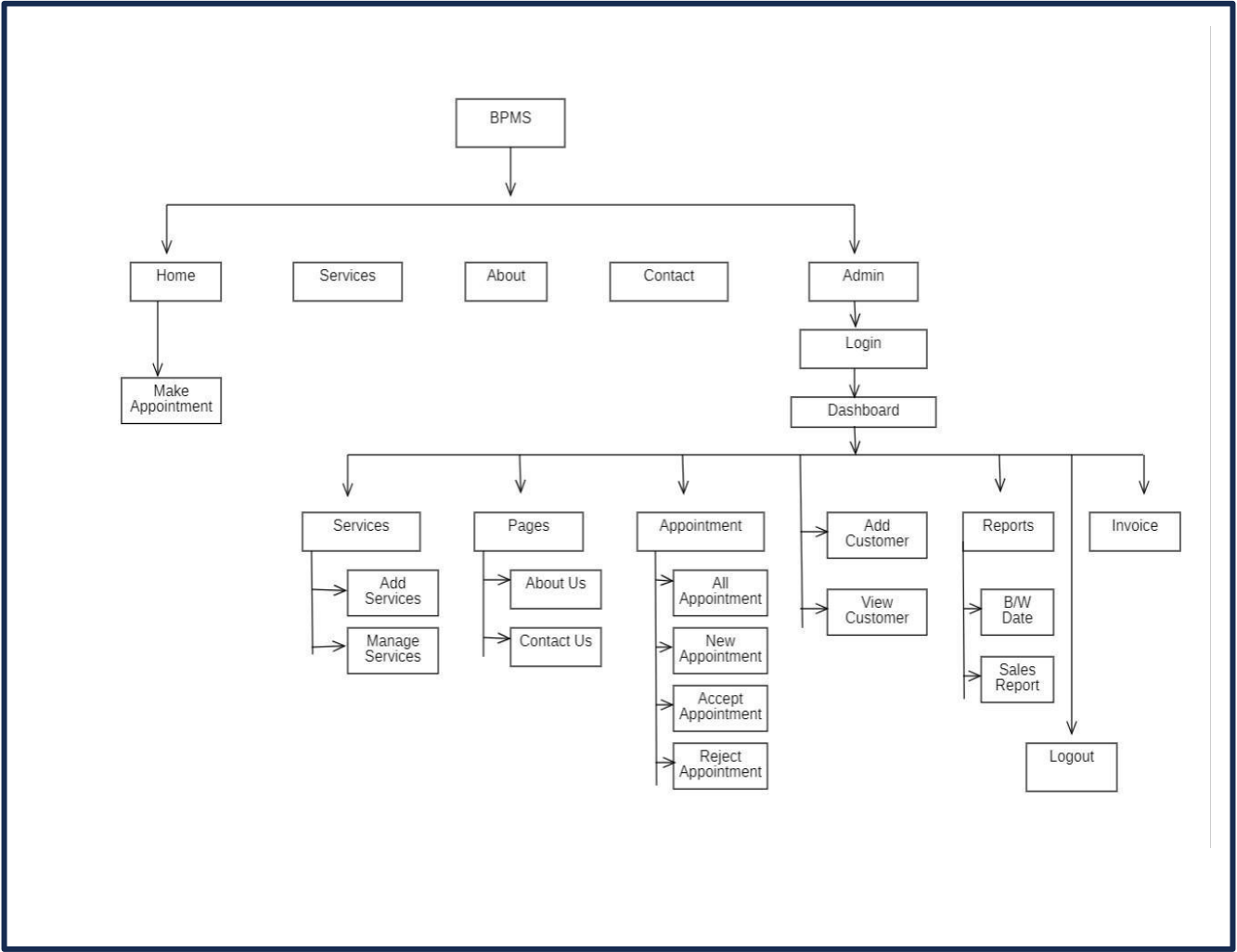




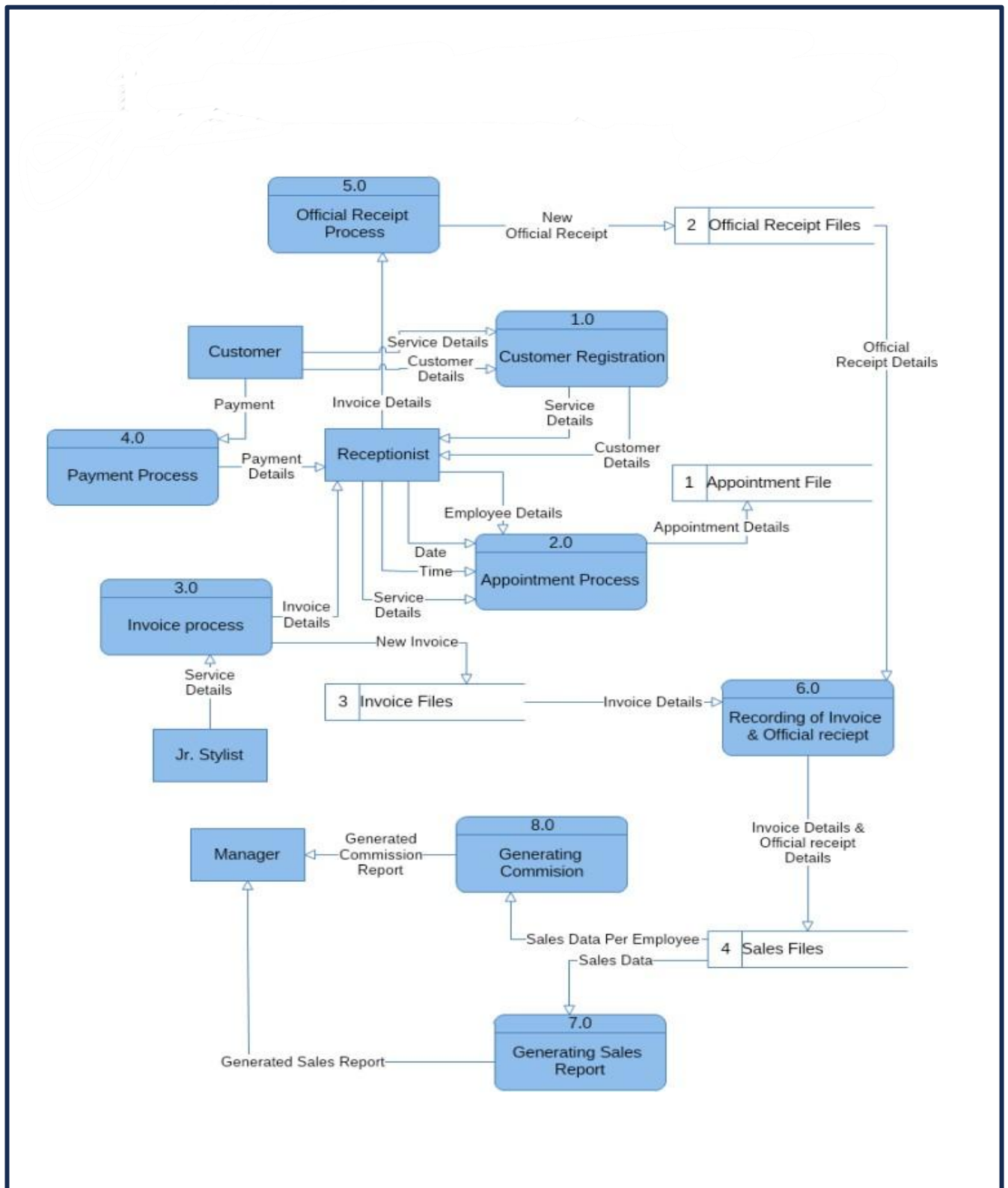
## Customer



# MENU TREE



## System Flow Diagram:



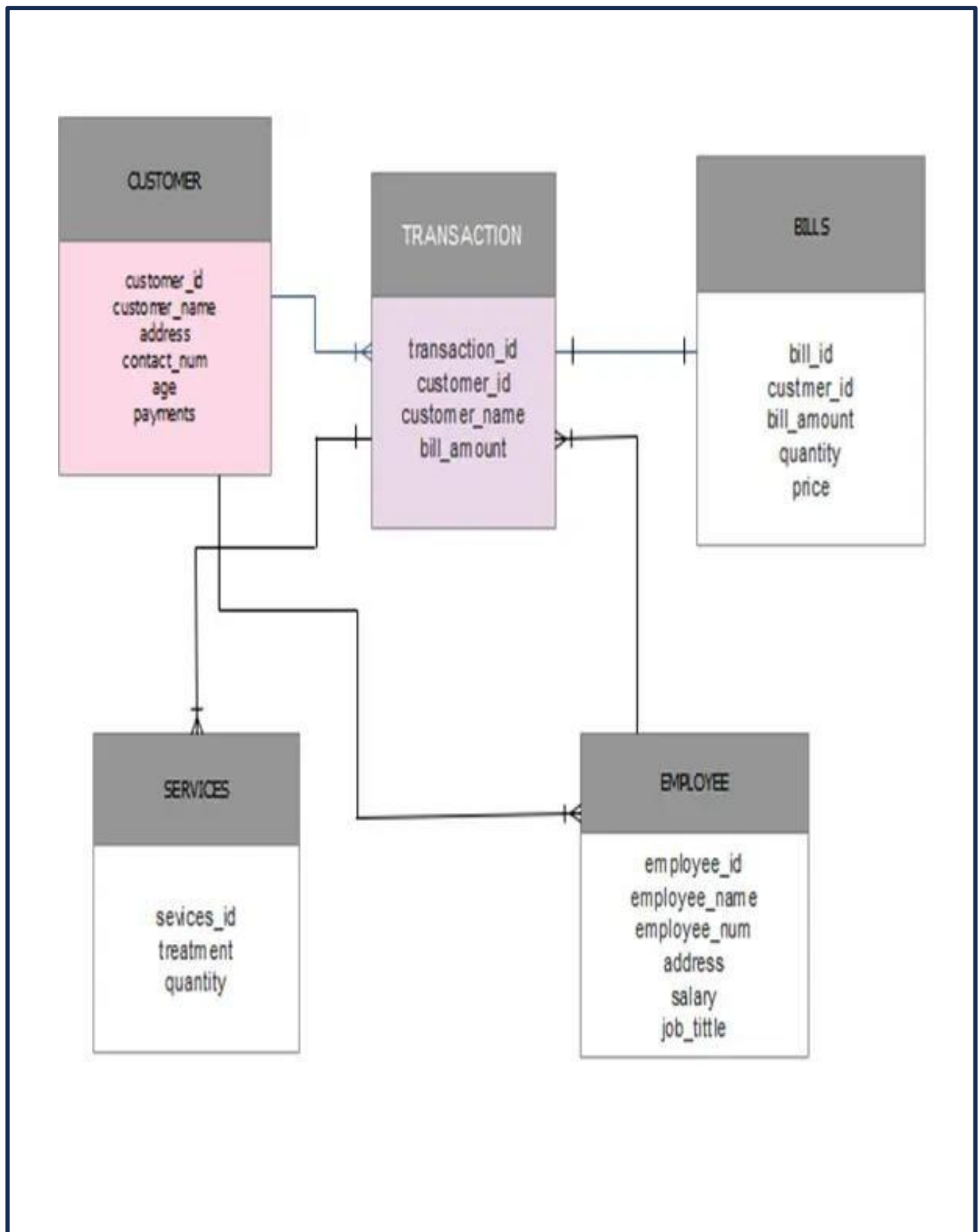
## **Chapter 4: System Design**

### **4.1 Basic Modules:**

The Beauty Parlour Management System consists of several core modules that ensure seamless operation and service management. These modules include:

- **Customer Management** – Handles user registration, login, profile management, and appointment history. Customers can view available services, book appointments, and provide feedback.
- **Appointment Scheduling** – Manages the booking, rescheduling, and cancellation of appointments. It includes automated notifications for reminders and availability tracking.
- **Service Management** – Allows administrators to define, update, and manage beauty services offered, including pricing, duration, and special offers.
- **Staff Management** – Enables the administrator to manage employee details, assign schedules, and track service performance.
- **Payment Processing** – Facilitates transactions and invoices using various payment methods such as cash, card, or online payments. It also includes receipt generation.
- **Inventory Management** – Tracks and manages the stock of beauty products, tools, and consumables required for various services, preventing shortages and ensuring smooth operations.
- **Reports & Analytics** – Generates insights into business operations, including revenue, customer engagement, staff performance, and service popularity. It provides reports for decision-making and business growth.
- **Feedback & Reviews** – Collects customer feedback and ratings to improve service quality and customer satisfaction.

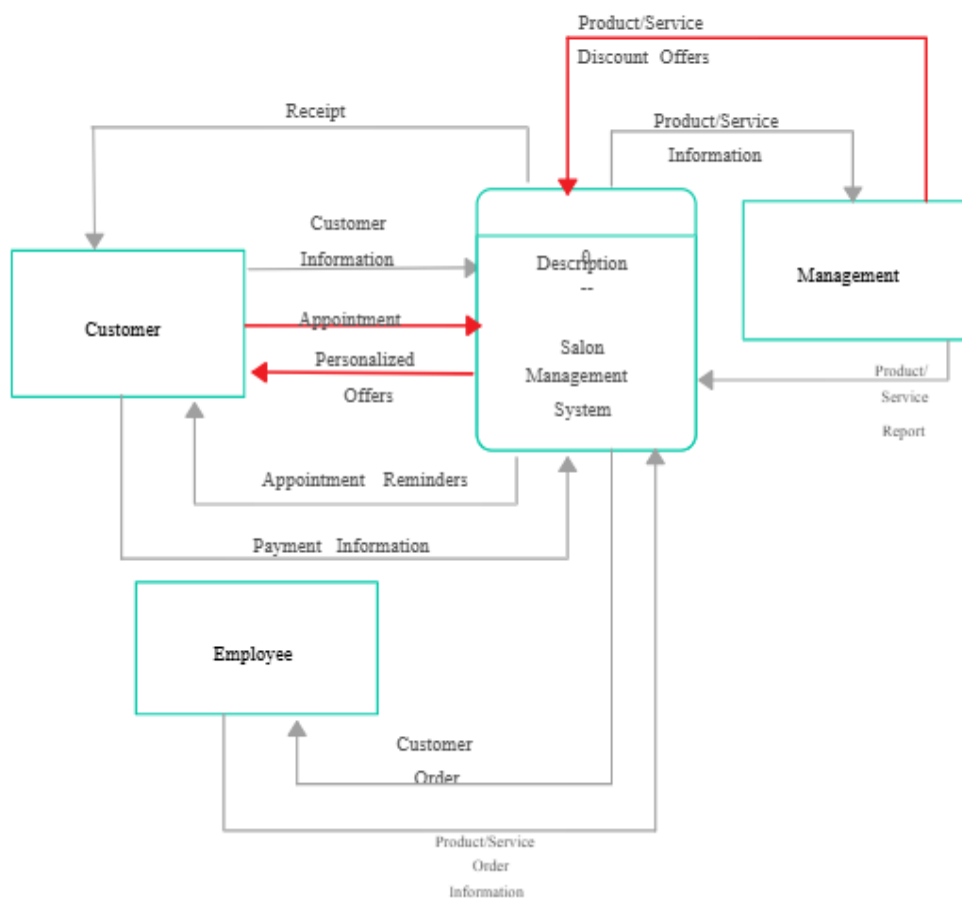
## 4.2 Schema Design:



## 4.3 Process Diagrams

Promotional Deals  
(electronic)

Context Level Diagram  
Statements Hair Boutique



## 4.4 USER INTERFACE

**Glam Hub**

Enter Email

Enter Password

Login

Register

Forget Password

**Main page and Login Page**

## User Login

Enter Email

---

Enter Password

---

Forget Password

Forget Username

**Donar Login Page**



## Admin Login

Enter Email

---

Enter Password

---

Forget Password

Forget Username

**Admin Login Page**

## 4.5 Security Issues:

Security considerations include:

- **Authentication** – User login with password encryption using hashing algorithms like crypt or SHA-256.
- **Authorization** – Role-based access control (RBAC) ensures only authorized personnel can access specific system functionalities.
- **Data Protection** – Secure payment transactions with SSL/TLS encryption and secure storage of sensitive user data.
- **Data Backup** – Regular backup procedures, including automated cloud and offline backups, to prevent data loss and ensure recovery in case of failure.
- **Audit Logs** – Tracks user activity to monitor changes and detect unauthorized access or suspicious activities.
- **Firewall and Intrusion Detection** – Implementation of security firewalls and intrusion detection systems (IDS) to prevent cyber-attacks.
- **Two-Factor Authentication (2FA)** – Enhances security by requiring an additional verification step during login.
- **Input Validation** – Prevents SQL injection, cross-site scripting (XSS), and other common cyber threats by validating and sanitizing user input.
- **Session Management** – Secure session handling to prevent session hijacking and unauthorized access.
- **Regular Security Audits** – Periodic security assessments and penetration testing to identify and fix vulnerabilities.

## 4.6 Test Case Diagram:

Form Name	Test Case	Test Data	State	Test Input Value	Expected Result
Recipient Register	1.Password and Confirm Password must be same .2. Email must be unique	1. Password can be alphanumeric. 2. Email must contain '@' symbol. 3. Phone Number must contain 10 digits only.	Valid	Username <a href="mailto:email@gmail.com">email@gmail.com</a> *****	It will create a customer account in database and will allow customer to login.
Recipient login	Email and Password should be correct	Email must contain '@' symbol.	Valid	<a href="mailto:email@gmail.com">email@gmail.com</a>	It will redirect customer to menu page for selection of sector
User Register	1. Password and Confirm Password must be same. 2. Email must be unique.	1. Password can be alphanumeric. 2. Email must contain '@' symbol. 3. Phone Number must contain 10 digits only.	Valid	<u>Admin</u> <u>Name</u> <a href="mailto:admin@gmail.com">admin@gmail.com</a> Address *****	It will create an admin account in database and will allow admin to login.
User Login	Email and Password should be correct	Email must contain '@' symbol.	Valid	<a href="mailto:admin@gmail.com">admin@gmail.com</a>	It will redirect admin to slot management page.
Admin Login	Email and Password should be correct	Email must contain '@' symbol.	Valid	<a href="mailto:admin@gmail.com">admin@gmail.com</a>	It will redirect owner to admin management page

# **Chapter 5: Implementation and Testing**

## **5.1 Implementation**

This chapter discusses the practical implementation of the Beauty Parlour Management System, covering the tools, technologies, and methodologies used to develop and deploy the system.

### **5.1.1 Development Environment**








- **Programming Language:** Python, Java, or PHP (depending on the chosen stack).
- **Frontend:** HTML, CSS, JavaScript, and frameworks like React or Angular.
- **Backend:** Node.js, Django, or Spring Boot.
- **Database:** MySQL, PostgreSQL, or MongoDB.
- **Hosting Platform:** AWS, Firebase, or a dedicated server.

### **5.1.2 Deployment Process**













- **Code Versioning:** Using GitHub or GitLab for version control.
- **CI/CD Pipeline:** Automated testing and deployment using Jenkins, GitHub Actions, or Docker.
- **Hosting Configuration:** Configuring domain, SSL, and security settings.
- **System Integration:** Connecting different modules and ensuring seamless operation.

## **DATABASE DESIGN**









### **Admin Table**

Column Name	#	Data Type	Not Null	Auto Increment	Key	Default	Extra	Expression	Comment
 ID	1	int(10)	[v]	[ ]	PRI				
 AdminName	2	char(50)	[ ]	[ ]		NULL			
 UserName	3	char(50)	[ ]	[ ]		NULL			
 MobileNumber	4	bigint(10)	[ ]	[ ]		NULL			
 Email	5	varchar(200)	[ ]	[ ]		NULL			
 Password	6	varchar(200)	[ ]	[ ]		NULL			
 AdminRegdate	7	timestamp	[ ]	[ ]		current_timestamp()			






### **Appointment Table**

Column Name	#	Data Type	Not Null	Auto Increment	Key	Default	Extra	Expression	Comment
 ID	1	int(10)	[v]	[ ]	PRI				
 AptNumber	2	varchar(10)	[ ]	[ ]		NULL			
 Name	3	varchar(120)	[ ]	[ ]		NULL			
 Email	4	varchar(120)	[ ]	[ ]		NULL			
 PhoneNumber	5	bigint(11)	[ ]	[ ]		NULL			
 AptDate	6	varchar(120)	[ ]	[ ]		NULL			
 AptTime	7	varchar(120)	[ ]	[ ]		NULL			
 Services	8	varchar(120)	[ ]	[ ]		NULL			
 ApplyDate	9	timestamp	[ ]	[ ]		current_timestamp()			
 Remark	10	varchar(250)	[v]	[ ]					
 Status	11	varchar(50)	[v]	[ ]					
 RemarkDate	12	timestamp	[v]	[ ]		'0000-00-00 00:00:...	on update ...		









## Customer Table

Column Name	#	Data Type	Not Null	Auto Increment	Key	Default	Extra	Expression	Comment
 ID	1	int(10)	[v]	[ ]	PRI				
 Name	2	varchar(120)	[ ]	[ ]		NULL			
 Email	3	varchar(200)	[ ]	[ ]		NULL			
 MobileNumber	4	bigint(11)	[ ]	[ ]		NULL			
 Gender	5	enum('Fem...	[ ]	[ ]		NULL			
 Details	6	mediumtext	[ ]	[ ]		NULL			
 CreationDate	7	timestamp	[ ]	[ ]		current_timestamp()			
 UpdationDate	8	timestamp	[ ]	[ ]		NULL	on update ...		

## Invoice Table

Column Name	#	Data Type	Not Null	Auto Increment	Key	Default	Extra	Expression	Comment
 id	1	int(11)	[v]	[ ]					
 Userid	2	int(11)	[ ]	[ ]		NULL			
 ServiceId	3	int(11)	[ ]	[ ]		NULL			
 BillingId	4	int(11)	[ ]	[ ]		NULL			
 PostingDate	5	timestamp	[ ]	[ ]		current_timestamp()			

## Page Table

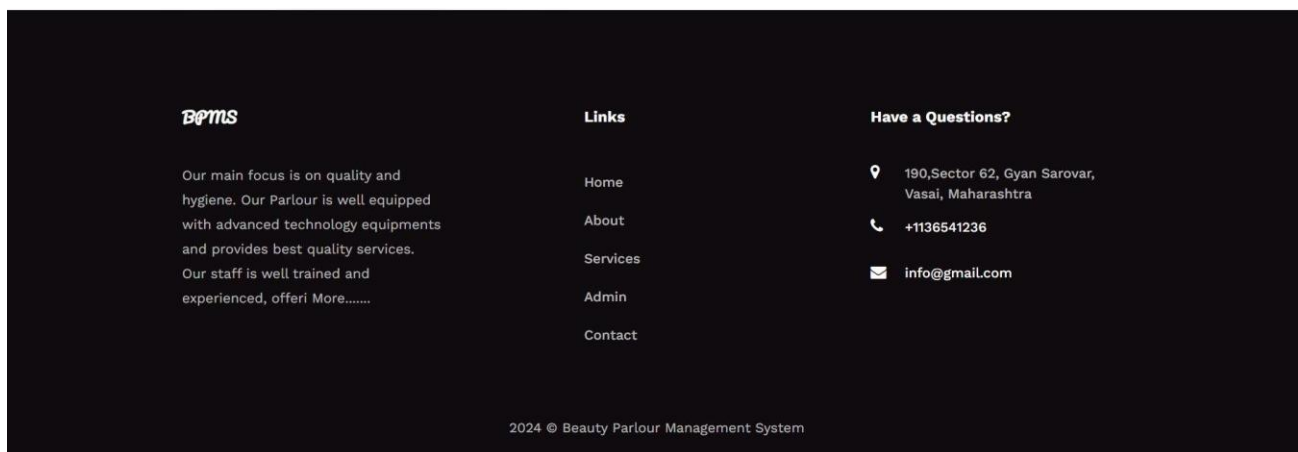
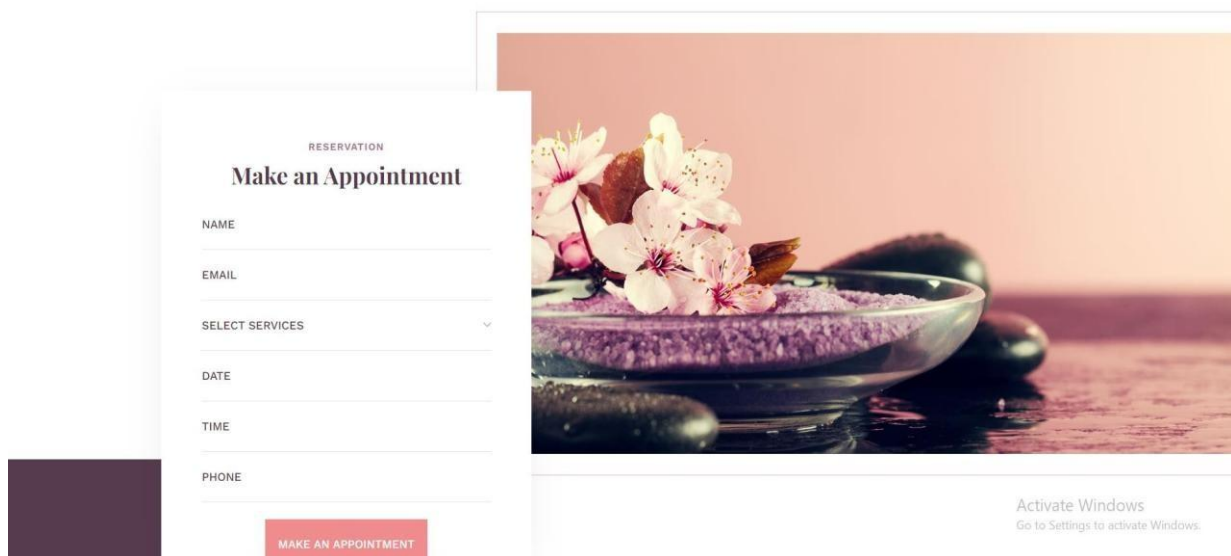
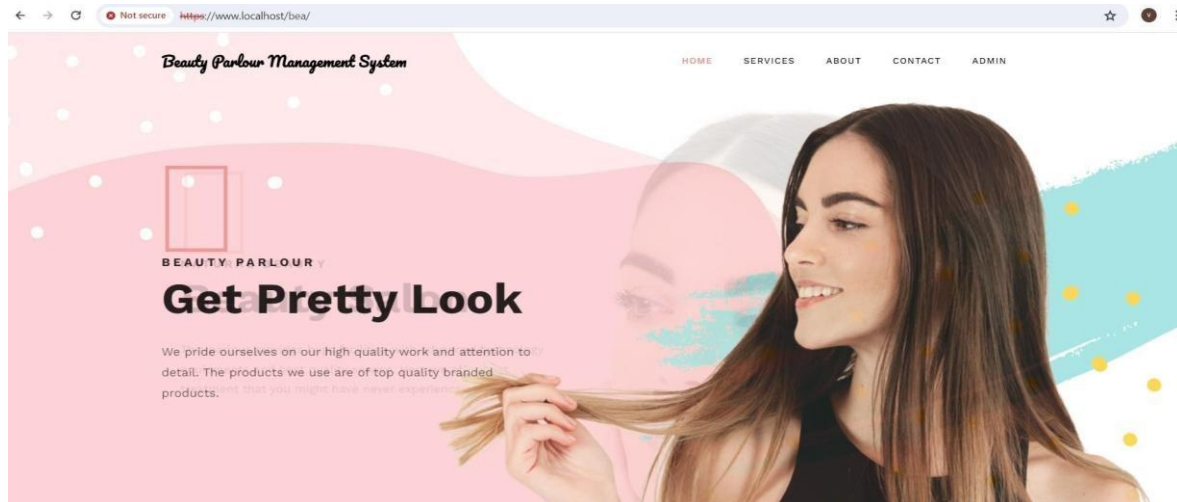
Column Name	#	Data Type	Not Null	Auto Increment	Key	Default	Extra	Expression	Comment
 ID	1	int(10)	[v]	[ ]	PRI				
 PageType	2	varchar(200)	[ ]	[ ]		NULL			
 PageTitle	3	mediumtext	[ ]	[ ]		NULL			
 PageDescripti...	4	mediumtext	[ ]	[ ]		NULL			
 Email	5	varchar(200)	[ ]	[ ]		NULL			
 MobileNumber	6	bigint(10)	[ ]	[ ]		NULL			
 UpdationDate	7	date	[ ]	[ ]		NULL			
 Timing	8	varchar(200)	[v]	[ ]					

Services Table

Column Name	#	Data Type	Not Null	Auto Increment	Key	Default	Extra	Expression	Comment
123 ID	1	int(10)	[v]	[ ]					
ABC ServiceName	2	varchar(200)	[ ]	[ ]		NULL			
123 Cost	3	int(10)	[ ]	[ ]		NULL			
🕒 CreationDate	4	timestamp	[ ]	[ ]		current_timestamp()			

## SYSTEM CODING AND CONVENTIONS

### BPMS (Home)





## Home Page Code:

```
<?php
include('includes/dbconnection.php');
session_start(); error_reporting(0);
include('includes/dbconnection.php'); if(isset($_POST['submit']))
{

$name=$_POST['name'];
$email=$_POST['email'];
$services=$_POST['services'];
$adate=$_POST['adate'];
$atime=$_POST['atime'];
$phone=$_POST['phone'];
$aptnumber = mt_rand(100000000, 999999999);

$query=mysqli_query($con,"insert into
tblappointment(AptNumber,Name,Email,PhoneNumber,AptDate,AptTime,Services)
value('$aptnumber','$name','$email','$phone','$adate','$atime','$services')"); if
($query) {

$ret=mysqli_query($con,"select AptNumber from tblappointment where Email='$email' and
PhoneNumber='$phone'"); $result=mysqli_fetch_array($ret);
$_SESSION['aptno']=$result['AptNumber'];
echo "<script>window.location.href='thank-you.php'</script>";
} else
{
$msg="Something Went Wrong. Please try again"; }

}
```

```

?>
<!DOCTYPE html>
<html lang="en">
<head>
<title>BPMS||Home Page</title>

<link href="https://fonts.googleapis.com/css?family=Work+Sans:100,200,300,400,500,600,700,800,900"
rel="stylesheet">
<link href="https://fonts.googleapis.com/css?family=Pacifico" rel="stylesheet">
<link href="https://fonts.googleapis.com/css?family=Playfair+Display:400,400i,700,700i,900,900i"
rel="stylesheet">

<link rel="stylesheet" href="css/open-iconic-bootstrap.min.css"> <link
rel="stylesheet" href="css/animate.css">

<link rel="stylesheet" href="css/owl.carousel.min.css">
<link rel="stylesheet" href="css/owl.theme.default.min.css"> <link
rel="stylesheet" href="css/magnific-popup.css">

<link rel="stylesheet" href="css/aos.css">

<link rel="stylesheet" href="css/ionicons.min.css">

<link rel="stylesheet" href="css/bootstrap-datepicker.css">

<link rel="stylesheet" href="css/jquery.timepicker.css">
<link rel="stylesheet" href="css/flaticon.css">
<link rel="stylesheet" href="css/icomoon.css">
<link rel="stylesheet" href="css/style.css">
</head>
<body>
<?php include_once('includes/header.php');?>
<!-- END nav -->

<section id="home-section" class="hero" style="background-image: url(images/bg.jpg);" data-
stellarbackground-ratio="0.5">

```

```

<div class="home-slider owl-carousel">
<div class="slider-item js-fullheight">
<div class="overlay"></div>
<div class="container-fluid p-0">
<div class="row d-md-flex no-gutters slider-text align-items-end justify-content-end" data-
scrollaxparent="true">

<div class="one-forth d-flex align-items-center ftco-animate" data-scrollax=" properties: { translateY: '70%'
}">
<div class="text mt-5">
<span class="subheading">Beauty Parlour</span>
<h1 class="mb-4">Get Pretty Look</h1>
<p class="mb-4">We pride ourselves on our high quality work and attention to detail. The products we use are of
top quality branded products.</p>

</div>
</div>
</div>
</div>
</div>
</div>
<div class="slider-item js-fullheight">

<div class="overlay"></div>

<div class="container-fluid p-0">

<div class="row d-flex no-gutters slider-text align-items-center justify-content-end" data-
scrollaxparent="true">

<div class="one-forth d-flex align-items-center ftco-animate" data-scrollax=" properties: { translateY: '70%'
}">
<div class="text mt-5">
<span class="subheading">Natural Beauty</span>
<h1 class="mb-4">Beauty Salon</h1>
<p class="mb-4">This parlour provides huge facilities with advanced technology equipments and best quality

```

```
</div>
</div>
</div>
</div>
</div>
</div>
</section>
```

```
<br>
<section class="ftco-section ftco-no-pt ftco-booking">
  <div class="container-fluid px-0">
    <div class="row no-gutters d-md-flex justify-content-end">
      <div class="one-forth d-flex align-items-end">
        <div class="text">
          <div class="overlay"></div>
          <div class="appointment-wrap">
            <span class="subheading">Reservation</span>
            <h3 class="mb-2">Make an Appointment</h3>
            <form action="#" method="post" class="appointment-form">
              <div class="row">
                <div class="col-sm-12">

                  <div class="form-group">
                    <input type="text" class="form-control" id="name" placeholder="Name" name="name" required="true">

                  </div>
                </div>

                <div class="col-sm-12">
                  <div class="form-group">
                    <input type="email" class="form-control" id="appointment_email" placeholder="Email" name="email"
                    required="true">
                  </div>
                </div>

                <div class="col-sm-12">
                  <div class="form-group">
```

```

<div class="select-wrap">
<div class="icon"><span class="ion-ios-arrow-down"></span></div>
<select name="services" id="services" required="true" class="form-control">
<option value="">Select Services</option>
<?php $query=mysqli_query($con,"select * from tblservices"); while($row=mysqli_fetch_array($query))
{
?>
<option value="<?php echo $row['ServiceName'];?>"><?php echo $row['ServiceName'];?></option> <?php
?>
</select>
</div>
</div>
</div>
<div class="col-sm-12">
<div class="form-group">
<input type="text" class="form-control appointment_date" placeholder="Date" name="adate" id='adate'
required="true">
</div>
</div>
<div class="col-sm-12">
<div class="form-group">

<input type="text" class="form-control appointment_time" placeholder="Time" name="atime" id='atime'
required="true">
</div>
</div>

<div class="col-sm-12">
<div class="form-group">
<input type="text" class="form-control" id="phone" name="phone" placeholder="Phone" required="true"
maxlength="10" pattern="[0-9]+">
</div>
</div>

</div>
<div class="form-group">

```

```

<input type="submit" name="submit" value="Make an Appointment" class="btn btn-primary"> </div>
</form>
</div>
</div>
</div>
<div class="one-third">
<div class="img" style="background-image: url(images/bg-1.jpg);">
</div>
</div>
</div>
</div>
</div>
</section>

<br>

<?php include_once('includes/footer.php');?>

<!-- loader -->

<div id="ftco-loader" class="show fullscreen"><svg class="circular" width="48px" height="48px"><circle
class="path-bg" cx="24" cy="24" r="22" fill="none" stroke-width="4" stroke="#eeeeee"/><circle
class="path" cx="24" cy="24" r="22" fill="none" stroke-width="4" stroke-
miterlimit="10" stroke="#F96D00"/></svg></div>

<script src="js/jquery.min.js"></script>

<script src="js/jquery-migrate-3.0.1.min.js"></script>
<script src="js/popper.min.js"></script>
<script src="js/bootstrap.min.js"></script>
<script src="js/jquery.easing.1.3.js"></script>
<script src="js/jquery.waypoints.min.js"></script>

<script src="js/jquery.stellar.min.js"></script>
<script src="js/owl.carousel.min.js"></script>

<script src="js/jquery.magnific-popup.min.js"></script>
<script src="js/aos.js"></script>
<script src="js/jquery.animateNumber.min.js"></script>
<script src="js/bootstrap-datepicker.js"></script>

```

```

<script src="js/jquery.timepicker.min.js"></script>
<script src="js/scrollax.min.js"></script>
<script
src="https://maps.googleapis.com/maps/api/js?key=AlzaSyBVWaKrjvy3MaE7SQ74_uJiULgl1JY0H2s&sensor=false"></script>
<script src="js/google-map.js"></script>
<script src="js/main.js"></script>

</body>
</html>

```

## Admin Login:



### SignIn Page

Welcome back to BPMS AdminPanel !

Username

Password

Sign In

Back to Home

forgot password?

## Admin Login Code:

```

<?php
session_start(); error_reporting(0);
include('includes/dbconnection.php');

```

```

if(isset($_POST['login']))
{
    $adminuser=$_POST['username'];
    $password=$_POST['password']; //
    $password=md5($_POST['password']);
    echo "string".$password;

    $query=mysqli_query($con,"select ID from tbladmin where UserName='$adminuser' &&
    Password='$password' ");

    $ret=mysqli_fetch_array($query); if($ret>0){
        $_SESSION['bpmsaid']=$ret['ID'];
        header('location:dashboard.php');
    }

    else{
        $msg="Invalid Details.";
    }

}

?>

<!DOCTYPE HTML>

<html>

<head>

<title>BPMS | Login Page </title>

<script type="application/x-javascript"> addEventListener("load", function() { setTimeout(hideURLbar, 0);
}, false); function hideURLbar(){ window.scrollTo(0,1); } </script>

<!-- Bootstrap Core CSS -->
<link href="css/bootstrap.css" rel='stylesheet' type='text/css' />
<!-- Custom CSS -->
<link href="css/style.css" rel='stylesheet' type='text/css' />
<!-- font CSS -->
<!-- font-awesome icons -->
<link href="css/font-awesome.css" rel="stylesheet">
<!-- //font-awesome icons -->
<!-- js-->

```



```

<script src="js/jquery-1.11.1.min.js"></script>
<script src="js/modernizr.custom.js"></script>
<!--webfonts-->
<link
href="//fonts.googleapis.com/css?family=Roboto+Condensed:400,300,300italic,400italic,700,700italic"
rel='stylesheet' type='text/css'>
<!--//webfonts-->
<!--animate-->

<link href="css/animate.css" rel="stylesheet" type="text/css" media="all">
<script src="js/wow.min.js"></script>    <script>

        new        WOW().init();
</script>
<!--//end-animate-->
<!-- Metis Menu -->
<script src="js/metisMenu.min.js"></script>
<script src="js/custom.js"></script>
<link href="css/custom.css" rel="stylesheet">
<!--//Metis Menu -->
</head>
<body class="cbp-spmenu-push">
    <div class="main-content">

        <!-- main content start-->
        <div id="page-wrapper">
            <div class="main-page login-page ">
                <h3 class="title1">SignIn Page</h3>
                <div class="widget-shadow">
                    <div class="login-top">
                        <h4>Welcome back to BPMS AdminPanel ! </h4>
                    </div>
                    <div class="login-body">
                        <form role="form" method="post" action="">

                            <p style="font-size:16px; color:red" align="center"> <?php if($msg){

```

```

?> </p>
    <input type="text" class="user" name="username" id="username" placeholder="Username"
required="true"> <input type="password" name="password" id="password" class="lock"
placeholder="Password" required="true">
    <input type="submit" name="login" id="login" value="Sign In">
<div class="forgot-grid">

    <div class="forgot">

        <a href=" ../index.php">Back to Home</a>
    </div>
    <div class="clearfix"> </div>
</div>
<div class="forgot-grid">

    <div class="forgot">
        <a href="forgot-password.php">forgot password?</a>
    </div>
    <div class="clearfix"> </div>
</div>
</form>
</div>
</div>
</div>
</div>
</div>

<!-- Classie -->
<script src="js/classie.js"></script>
<script>
    var menuLeft = document.getElementById( 'cbp-spmenu-s1' ),
    showLeftPush = document.getElementById( 'showLeftPush' ),
    body = document.body;

    showLeftPush.onclick = function() {
classie.toggle( this, 'active' );

```

```

        classie.toggle( body, 'cbp-spmenu-push-toright' );
classie.toggle( menuLeft, 'cbp-spmenu-open' );      disableOther(
'showLeftPush' );

    };

    function disableOther( button ) {
if( button !== 'showLeftPush' ) {
        classie.toggle( showLeftPush, 'disabled' );
    }
}

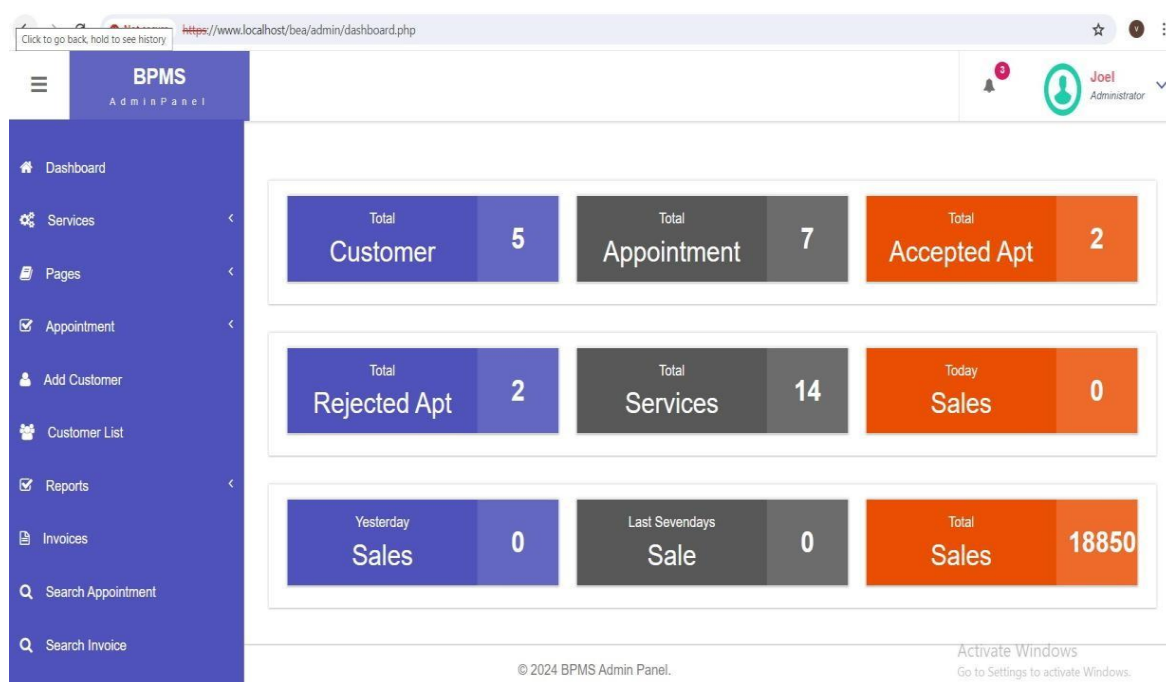
</script>

<!--scrolling js-->
<script src="js/jquery.nicescroll.js"></script>
<script src="js/scripts.js"></script>
<!--//scrolling js-->

<!-- Bootstrap Core JavaScript -->
<script src="js/bootstrap.js"> </script>
</body>
</html>

```

## Dashboard:



## Dashboard Code:

```
<?php
session_start();      error_reporting(0);
include('includes/dbconnection.php'); if
(strlen($_SESSION['bpmsaid']==0)) {
    header('location:logout.php');
}

?>

<!DOCTYPE HTML>

<html>

<head>

<title>BPMS | Admin Dashboard</title>

<script type="application/x-javascript"> addEventListener("load", function() { setTimeout(hideURLbar, 0);
}, false); function hideURLbar(){ window.scrollTo(0,1); } </script>

<!-- Bootstrap Core CSS -->
<link href="css/bootstrap.css" rel='stylesheet' type='text/css' />

<!-- Custom CSS -->
<link href="css/style.css" rel='stylesheet' type='text/css' />

<!-- font CSS -->
<!-- font-awesome icons -->
<link href="css/font-awesome.css" rel="stylesheet">

<!-- //font-awesome icons -->

<!-- js-->
<script src="js/jquery-1.11.1.min.js"></script>
<script src="js/modernizr.custom.js"></script>

<!--webfonts-->
<link
href="//fonts.googleapis.com/css?family=Roboto+Condensed:400,300,300italic,400italic,700,700italic"
rel='stylesheet' type='text/css'>

<!--//webfonts-->

<!--animate-->
```

```

<link href="css/animate.css" rel="stylesheet" type="text/css" media="all"> <script
src="js/wow.min.js"></script>

<script>
    new WOW().init();
</script>
<!--end-animate-->
<!-- chart -->
<script src="js/Chart.js"></script>
<!-- //chart -->
<!--Calender-->
<link rel="stylesheet" href="css/clndr.css" type="text/css" />
<script src="js/underscore-min.js" type="text/javascript"></script>
<script src="js/moment-2.2.1.js" type="text/javascript"></script>
<script src="js/clndr.js" type="text/javascript"></script>
<script src="js/site.js" type="text/javascript"></script>
<!--End Calender-->
<!-- Metis Menu -->
<script src="js/metisMenu.min.js"></script>
<script src="js/custom.js"></script>
<link href="css/custom.css" rel="stylesheet">
<!--//Metis Menu -->
</head>
<body class="cbp-spmenu-push">
<div class="main-content">

    <?php include_once('includes/sidebar.php');?>

    <?php include_once('includes/header.php');?>
    <!-- main content start-->
    <div id="page-wrapper" class="row calender widget-shadow">
        <div class="main-page">

```

```

<div class="row calender widget-shadow">

    <div class="row-one">
        <div class="col-md-4 widget">

            <?php $query1=mysqli_query($con,"Select * from tblcustomers");
$totalcust=mysqli_num_rows($query1);
?>

            <div class="stats-left ">
                <h5>Total</h5>
                <h4>Customer</h4>
            </div>
            <div class="stats-right">
                <label> <?php if(!empty($totalcust)){
                    echo $totalcust;
                }else{
echo'0';
}?></label>
            </div>
            <div class="clearfix"> </div>
        </div>
        <div class="col-md-4 widget states-mdl">
            <?php $query2=mysqli_query($con,"Select * from tblappointment");
$totalappointment=mysqli_num_rows($query2); ?>
            <div class="stats-left">
                <h5>Total</h5>
                <h4>Appointment</h4>
            </div>
            <div class="stats-right">
                <label> <?php
                    if(!empty($totalappointment)){
echo $totalappointment;
                }else{
echo'0';
                }?></label>
            </div>
            <div class="clearfix"> </div>
        </div>
    </div>
</div>

```

```

</div>
<div class="col-md-4 widget states-last">

    <?php $query3=mysqli_query($con,"Select * from tblappointment where Status='1'");
    $totalaccapt=mysqli_num_rows($query3);

?>

<div class="stats-left">
    <h5>Total</h5>
    <h4>Accepted Apt</h4>
</div>
<div class="stats-right">
    <label><?php if(!empty($totalaccapt)){
        echo $totalaccapt;
    }else{
echo'0';
}?></label>
</div>
<div class="clearfix"> </div>
</div>
<div class="clearfix"> </div>
</div>

</div>

<div class="row calender widget-shadow">
    <div class="row-one">
        <div class="col-md-4 widget">
            <?php $query4=mysqli_query($con,"Select * from tblappointment where Status='1'");
            $totalrejapt=mysqli_num_rows($query4);
        ?>

        <div class="stats-left ">
            <h5>Total</h5>
            <h4>Rejected Apt</h4>
        </div>
        <div class="stats-right">
            <label> <?php if(!empty($totalrejapt)){

```

```

        echo $totalrejapt;
echo'0';    }else{
}></label>

</div>
<div class="clearfix"> </div>
</div>
<div class="col-md-4 widget states-mdl">
    <?php $query5=mysqli_query($con,"Select * from tblservices");
$totalser=mysqli_num_rows($query5);
?>

<div class="stats-left">
    <h5>Total</h5>
    <h4>Services</h4>
</div>
<div class="stats-right">
    <label> <?php if(!empty($totalser)){
        echo $totalser;
    }else{
        echo'0';
    }?></label>
</div>
<div class="clearfix"> </div>
</div>
<div class="col-md-4 widget states-last">
<?php

//todays sale
$query6=mysqli_query($con,"select tblinvoice.ServiceId as ServiceId, tblservices.Cost from
tblinvoice
join tblservices on tblservices.ID=tblinvoice.ServiceId where date(PostingDate)=CURDATE()");
while($row=mysqli_fetch_array($query6))
{
    $todays_sale=$row['Cost'];
    $todysale+=$todays_sale;
}

?>

<div class="stats-left">

```



```

        <h5>Today</h5>
        <h4>Sales</h4>
    </div>
    <div class="stats-right">
        <label> <?php if(!empty($todysale)){
            echo $todysale;
echo'0';        }else{
        }?></label>

    </div>
    <div class="clearfix"> </div>
</div>
<div class="clearfix"> </div>
</div>

</div>

<div class="row calender widget-shadow">
    <div class="row-one">
        <div class="col-md-4 widget">
            <?php
//Yesterday's sale
$query7=mysqli_query($con,"select tblinvoice.ServiceId as ServiceId, tblservices.Cost from
tblinvoice
join tblservices on tblservices.ID=tblinvoice.ServiceId where date(PostingDate)=CURDATE()-1;");
while($row7=mysqli_fetch_array($query7))
{
$yesterdays_sale=$row7['Cost'];
$yesterdaysale+=$yesterdays_sale;
}
?>

        <div class="stats-left ">
            <h5>Yesterday</h5>
            <h4>Sales</h4>
        </div>
        <div class="stats-right">

```

```

        <label> <?php if(!empty($yesterdaysale)){

            echo $yesterdaysale;
        }else{
echo'0';
        }?></label>

    </div>

    <div class="clearfix"> </div>

</div>

<div class="col-md-4 widget states-mdl">

    <?php

//Last Sevendays Sale

$query8=mysqli_query($con,"select tblinvoice.ServiceId as ServiceId, tblservices.Cost from
tblinvoice

join tblservices on tblservices.ID=tblinvoice.ServiceId where date(PostingDate)>=(DATE(NOW()) -
INTERVAL 7 DAY);");
while($row8=mysqli_fetch_array($query8))
{
    $sevendays_sale=$row8['Cost'];
    $seven+=$sevendays_sale;
}

?>

    <div class="stats-left">

        <h5>Last Sevendays</h5>

        <h4>Sale</h4>

    </div>

    <div class="stats-right">

        <label> <?php if(!empty($seven)){

            echo $seven;
        }else{
echo'0';
        }?></label>

    </div>

    <div class="clearfix"> </div>

</div>

<div class="col-md-4 widget states-last">

    <?php

```

```

$query9=mysqli_query($con,"select tblinvoice.ServiceId as ServiceId, tblservices.Cost from
tblinvoice
join tblservices on tblservices.ID=tblinvoice.ServiceId"); while($row9=mysqli_fetch_array($query9))
{
$total_sale=$row9['Cost'];
$totalsale+=$total_sale;

}

?>

<div class="stats-left"> <h5>Total</h5>
    <h4>Sales</h4>
</div>
<div class="stats-right">
    <label><?php    if(!empty($totalsale)){
echo $totalsale;
    }else{
echo'0';
    }?></label>
</div>
<div class="clearfix"> </div>
</div>
<div class="clearfix"> </div>
</div>

</div>
</div>
<div class="clearfix"> </div>
</div>
</div>
<!--footer-->
<?php include_once('includes/footer.php');?>
<!--//footer-->
</div>

```

```

<script src="js/classie.js"></script>
<script>
    var menuLeft = document.getElementById( 'cbp-spmenu-s1' ),
    showLeftPush  = document.getElementById( 'showLeftPush' ),
    body = document.body;

    showLeftPush.onclick = function() {
classie.toggle( this, 'active' );
        classie.toggle( body, 'cbp-spmenu-push-toright' );
classie.toggle( menuLeft, 'cbp-spmenu-open' );      disableOther(
'showLeftPush' );
        };

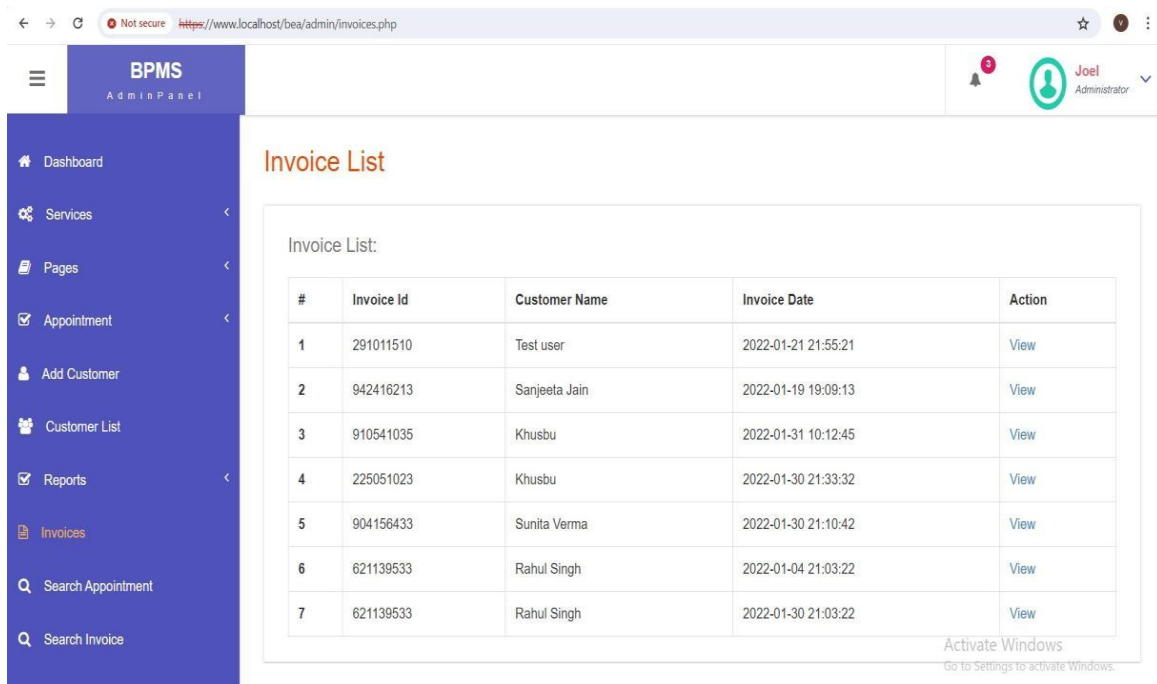
    function disableOther( button ) {
if( button !== 'showLeftPush' ) {
        classie.toggle( showLeftPush, 'disabled' );
    }
    }

</script>
<!--scrolling js-->
<script src="js/jquery.nicescroll.js"></script>
<script src="js/scripts.js"></script>
<!--//scrolling js-->
<!-- Bootstrap Core JavaScript -->
<script src="js/bootstrap.js"> </script>
</body>
</html>

```

# Invoice

## Invoice List:



Invoice List:

#	Invoice Id	Customer Name	Invoice Date	Action
1	291011510	Test user	2022-01-21 21:55:21	<a href="#">View</a>
2	942416213	Sanjeeta Jain	2022-01-19 19:09:13	<a href="#">View</a>
3	910541035	Khusbu	2022-01-31 10:12:45	<a href="#">View</a>
4	225051023	Khusbu	2022-01-30 21:33:32	<a href="#">View</a>
5	904156433	Sunita Verma	2022-01-30 21:10:42	<a href="#">View</a>
6	621139533	Rahul Singh	2022-01-04 21:03:22	<a href="#">View</a>
7	621139533	Rahul Singh	2022-01-30 21:03:22	<a href="#">View</a>

Activate Windows  
Go to Settings to activate Windows.

## Invoice List Code:

```
<?php
session_start();      error_reporting(0);
include('includes/dbconnection.php'); if
(strlen($_SESSION['bpmsaid']==0)) {
    header('location:logout.php');
} else{

?>
<!DOCTYPE HTML>
<html>
<head>
<title>BPMS || Customer List</title>
```

```

<script type="application/x-javascript"> addEventListener("load", function() { setTimeout(hideURLbar, 0);
}, false); function hideURLbar(){ window.scrollTo(0,1); } </script>

<!-- Bootstrap Core CSS -->
<link href="css/bootstrap.css" rel='stylesheet' type='text/css' />

<!-- Custom CSS -->
<link href="css/style.css" rel='stylesheet' type='text/css' />

<!-- font CSS -->
<!-- font-awesome icons -->
<link href="css/font-awesome.css" rel="stylesheet">
<!-- //font-awesome icons -->
<!-- js-->
<script src="js/jquery-1.11.1.min.js"></script>
<script src="js/modernizr.custom.js"></script>
<!--webfonts-->
<link
href="//fonts.googleapis.com/css?family=Roboto+Condensed:400,300,300italic,400italic,700,700italic"
rel='stylesheet' type='text/css'>
<!--//webfonts-->
<!--animate-->
<link href="css/animate.css" rel="stylesheet" type="text/css" media="all"> <script
src="js/wow.min.js"></script>
    <script>
        new WOW().init();
    </script>
<!--//end-animate-->
<!-- Metis Menu -->
<script src="js/metisMenu.min.js"></script>
<script src="js/custom.js"></script>
<link href="css/custom.css" rel="stylesheet">
<!--//Metis Menu -->
</head>
<body class="cbp-spmenu-push">
    <div class="main-content">
        <!--left-fixed -navigation-->
        <?php include_once('includes/sidebar.php');?>
        <!--left-fixed -navigation-->
        <!-- header-starts -->

```

```

<?php include_once('includes/header.php');?>
<!-- //header-ends -->
<!-- main content start-->
<div id="page-wrapper">
    <div class="main-page">
        <div class="tables">
            <h3 class="title1">Invoice List</h3>

            <div class="table-responsive bs-example widget-shadow">
                <h4>Invoice List:</h4>
                <table class="table table-bordered">
                    <thead> <tr>
                        <th>#</th>
                        <th>Invoice Id</th>
                        <th>Customer Name</th>
                        <th>Invoice Date</th>
                        <th>Action</th>
                    </tr>
                    </thead> <tbody>

<?php
$ret=mysqli_query($con,"select distinct tblcustomers.Name,tblinvoice.BillingId,tblinvoice.PostingDate from
tblcustomers
    join tblinvoice on tblcustomers.ID=tblinvoice.Userid  order by tblinvoice.ID desc");
$cnt=1;
while ($row=mysqli_fetch_array($ret)) {

?>

        <tr>
            <th scope="row"><?php echo $cnt;?></th>
            <td><?php echo $row['BillingId'];?></td>
            <td><?php echo $row['Name'];?></td>
            <td><?php echo $row['PostingDate'];?></td>

```

```

        <td><a href="view-invoice.php?invoiceid=<?php echo
$row['BillingId'];?>">View</a></td>

    </tr> <?php
$cnt=$cnt+1;
}?></tbody> </table>

</div>

</div>

</div>

</div>

<!--footer-->

<?php include_once('includes/footer.php');?>

<!--//footer-->

</div>

<!-- Classie -->

<script src="js/classie.js"></script>

<script>

    var menuLeft = document.getElementById( 'cbp-spmenu-s1' ),
    showLeftPush  = document.getElementById( 'showLeftPush' ),
    body = document.body;

    showLeftPush.onclick      =      function()      {
classie.toggle( this, 'active' );

        classie.toggle(    body,    'cbp-spmenu-push-toright' );
classie.toggle( menuLeft, 'cbp-spmenu-open' );      disableOther(
'showLeftPush' );

        };

    function disableOther( button ) {
if( button !== 'showLeftPush' ) {
        classie.toggle( showLeftPush, 'disabled' );
    }
}

</script>

<!--scrolling js-->

<script src="js/jquery.nicescroll.js"></script>

```



```

<script src="js/scripts.js"></script>
<!--//scrolling js-->
<!-- Bootstrap Core JavaScript -->
<script src="js/bootstrap.js"> </script>
</body>
</html>
<?php } ?>

```

## Invoice List Details:

Invoice #291011510

Customer Details				
Name	Test user	Contact no.	1234561190	Email
Gender	Female	Invoice Date	2022-01-21 21:55:21	

Services Details		
#	Service	Cost
1	Charcoal Facial	1000
2	Deluxe Manicure	500
3	O3 Facial	1200
4	Normal Pedicure	400
5	U-Shape Hair Cut	250
Grand Total		3350

## Invoice List Details Code:

```

<?php
session_start();          error_reporting(0);
include('includes/dbconnection.php'); if
(strlen($_SESSION['bpmsaid']==0)) {
    header('location:logout.php');
} else{

```

```

?>
<!DOCTYPE HTML>
<html>
<head>
<title>BPMS || Customer List</title>

<script type="application/x-javascript"> addEventListener("load", function() { setTimeout(hideURLbar, 0);
}, false); function hideURLbar(){ window.scrollTo(0,1); } </script>

<!-- Bootstrap Core CSS -->
<link href="css/bootstrap.css" rel='stylesheet' type='text/css' />

<!-- Custom CSS -->
<link href="css/style.css" rel='stylesheet' type='text/css' />

<!-- font CSS -->
<!-- font-awesome icons -->
<link href="css/font-awesome.css" rel="stylesheet">

<!-- //font-awesome icons -->
<!-- js-->
<script src="js/jquery-1.11.1.min.js"></script>
<script src="js/modernizr.custom.js"></script>

<!--webfonts-->
<link
href="//fonts.googleapis.com/css?family=Roboto+Condensed:400,300,300italic,400italic,700,700italic"
rel='stylesheet' type='text/css'>

<!--//webfonts-->

<!--animate-->
<link href="css/animate.css" rel="stylesheet" type="text/css" media="all"> <script
src="js/wow.min.js"></script>
<script>
    new WOW().init();
</script>

<!--//end-animate-->

<!-- Metis Menu -->
<script src="js/metisMenu.min.js"></script>
<script src="js/custom.js"></script>

```

```

<link href="css/custom.css" rel="stylesheet">
<!--//Metis Menu -->
</head>
<body class="cbp-spmenu-push">
    <div class="main-content">
        <!--left-fixed -navigation-->
        <?php include_once('includes/sidebar.php');?>
        <!--left-fixed -navigation-->
        <!-- header-starts -->
        <?php include_once('includes/header.php');?>
        <!-- //header-ends -->
        <!-- main content start-->
        <div id="page-wrapper">
            <div class="main-page">
                <div class="tables" id="exampl">
                    <h3 class="title1">Invoice Details</h3>

                    <?php
                        $invid=intval($_GET['invoiceid']);
                        $ret=mysqli_query($con,"select
DISTINCT    tblinvoice.PostingDate,tblcustomers.Name,tblcustomers.Email,tblcustomers.MobileNumber,tbl
customers.Gender
            from tblinvoice
            join  tblcustomers  on  tblcustomers.ID=tblinvoice.UserID
            where tblinvoice.BillingId='$invid'");
                        $cnt=1;
                        while ($row=mysqli_fetch_array($ret)) {

                            <div class="table-responsive bs-example widget-shadow">
                                <h4>Invoice #<?php echo $invid;?></h4>
                                <table class="table table-bordered" width="100%" border="1"> <tr>
<th colspan="6">Customer Details</th>
</tr>

```

```

        <th>Name</th>
        <td><?php echo $row['Name']?></td>
        <th>Contact no.</th>
        <td><?php echo $row['MobileNumber']?></td>
        <th>Email </th>
        <td><?php echo $row['Email']?></td>
    </tr>
    <tr>
        <th>Gender</th>
        <td><?php echo $row['Gender']?></td>
        <th>Invoice Date</th>
        <td colspan="3"><?php echo $row['PostingDate']?></td>
    </tr>
    <tr>
        <th colspan="4">Services Details</th>
    </tr>
    <tr>
        <th>#</th>
        <th>Service</th>
        <th>Cost</th>
    </tr>
    <tr>
        <td colspan="4">
            <?php
            $ret=mysqli_query($con,"select          tblservices.ServiceName,tblservices.Cost
            from tblinvoice
            join  tblservices  on  tblservices.ID=tblinvoice.ServiceId
            where tblinvoice.BillingId='$invid'");
            $cnt=1;
            while ($row=mysqli_fetch_array($ret)) {
                ?>
            }
        </td>
    </tr>
    <tr>
        <th><?php echo $cnt;?></th>

```

```

<td><?php echo $row['ServiceName']?></td>
<td><?php echo $subtotal=$row['Cost']?></td>
</tr>
<?php
$cnt=$cnt+1;
$gtotal+=$subtotal;
} ?>
<tr>
<th colspan="2" style="text-align:center">Grand Total</th>
<th><?php echo $gtotal?></th>
</tr>
</table>

<p style="margin-top:1%" align="center">
<i class="fa fa-print fa-2x" style="cursor: pointer;" onClick="CallPrint(this.value)" ></i> </p>
</div>
</div>
</div>
</div>
<!--footer-->
<?php include_once('includes/footer.php');?>
<!--//footer-->
</div>
<!-- Classie -->
<script src="js/classie.js"></script>
<script>
var menuLeft = document.getElementById( 'cbp-spmenu-s1' ),
showLeftPush = document.getElementById( 'showLeftPush' ),
body = document.body;

showLeftPush.onclick = function() {
classie.toggle( this, 'active' );
classie.toggle( body, 'cbp-spmenu-push-toright' );
classie.toggle( menuLeft, 'cbp-spmenu-open' ); disableOther(
'showLeftPush' );
};

function disableOther( button ) {
if( button !== 'showLeftPush' ) {
classie.toggle( showLeftPush, 'disabled' );

```

```

    }

    </script>

    <!--scrolling js-->
    <script src="js/jquery.nicescroll.js"></script>
    <script src="js/scripts.js"></script>
    <!--//scrolling js-->

    <!-- Bootstrap Core JavaScript -->
    <script src="js/bootstrap.js"> </script>

    <script>
function CallPrint(strid) {
var prtContent = document.getElementById("exempl");
var WinPrint = window.open(", ", "left=0,top=0,width=800,height=900,toolbar=0,scrollbars=0,status=0");
WinPrint.document.write(prtContent.innerHTML);
WinPrint.document.close();
WinPrint.focus();
WinPrint.print();
WinPrint.close();
}

</script>
</body>
</html>
<?php } ?>

```

## **Chapter 6: Results and Discussion**

### **6.1 Security Effectiveness:**

Security is a critical aspect of the Beauty Parlour Management System. The effectiveness of security measures implemented in the system was evaluated based on data protection, user authentication, and prevention of unauthorized access.

- **User Authentication:** The system ensures secure access through password-protected logins and role-based authentication.
- **Data Encryption:** Sensitive user data, including client details and transaction records, are encrypted to prevent data breaches.
- **Access Control:** Only authorized personnel can modify critical system settings, ensuring data integrity and security.
- **Regular Security Updates:** Security patches are regularly applied to protect against vulnerabilities.

### **6.2 Usability and User Experience:**

The usability of the system was assessed based on user feedback, interface design, and ease of navigation.

- **User-Friendly Interface:** The system employs an intuitive and simple UI, making it accessible for both technical and non-technical users.
- **Navigation Efficiency:** Users reported ease in navigating different modules, such as appointment booking, billing, and inventory management.
- **Feedback Mechanism:** Users can provide feedback on system performance, helping in iterative improvements.
- **Training and Documentation:** The system includes user manuals and tutorials for seamless onboarding.

### **6.3 Functionality and Performance**

The system was evaluated based on its ability to handle core functionalities efficiently.

- **Appointment Scheduling:** The scheduling module successfully manages multiple client bookings with minimal conflicts.
- **Billing and Payments:** Secure and efficient processing of transactions was observed, ensuring error-free invoicing.
- **Inventory Management:** Stock tracking and automatic restocking notifications were successfully implemented.
- **Performance Metrics:** The system loads pages quickly, maintaining optimal response times under normal usage conditions.

## **6.4 Security Testing:**

Security testing was conducted to evaluate the system's resilience against potential threats.

- **Penetration Testing:** Simulated attacks were conducted to identify vulnerabilities, and necessary patches were applied.
- **Data Integrity Testing:** Tests confirmed that unauthorized modifications were prevented, ensuring data consistency.
- **Session Management:** Secure session handling was implemented to prevent unauthorized session hijacking.
- **SQL Injection & XSS Protection:** Measures were in place to protect against common web security threats like SQL injection and cross-site scripting.

## **6.5 Scalability and Future Enhancements:**

The system's scalability and potential improvements were analyzed to ensure long-term usability.

- **Scalability:** The system is designed to accommodate an increasing number of users and data records efficiently.
- **Cloud Integration:** Future versions may incorporate cloud storage for better accessibility and data backup.
- **Mobile Application:** A dedicated mobile app version could enhance accessibility and usability.



## **Chapter 7: Conclusions**

The **Beauty Parlour Management System** successfully addressed the challenges faced by traditional salon management processes, improving efficiency, accuracy, and customer experience. With potential enhancements, the system can be expanded further to cater to a broader audience and provide even greater convenience and business insights. This project demonstrates the importance of automation in service-oriented industries and serves as a foundation for further advancements in beauty salon management technology.

### **REFERENCES:**

Official PHP Manual: [PHP Documentation](#)

PHP: The Right Way: [PHP The Right Way](#).

MySQL Documentation (For Database): [MySQL Documentation](#)

You tube: [youtube.com](#)

Capterra: <https://www.capterra.com/salon-software/?page=8>

G2 Crowd: <https://www.g2.com/products/salonist-salon-software/reviews>

Software Advice: <https://glossgenius.com/blog/best-salon-software>

Open Salon: <https://pro.opensalon.com/>