



# A Unified Platform for Wellness and Salon Services

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**Abstract:** The Unified Platform for Wellness and Salon Services (UPWSS) is a digital solution aimed at enhancing and simplifying salon management processes. It provides functionalities such as appointment scheduling, service provider management, customer relationship management, billing, inventory tracking, and analytics. This research paper explores the development, design, implementation, and impact of an SMS in enhancing business efficiency and customer experience.

**Key Words:** Digital Marketplace, Salon Services Management, UPWSS, Salon Booking System, Real-Time Scheduling, Digital Services, Customer Analytics.

## I. INTRODUCTION

The wellness and salon industry plays a significant role in enhancing customer satisfaction and driving business growth but faces several operational challenges. These challenges include inefficient appointment scheduling, limited client management capabilities, and difficulty in coordinating service providers. Fitria et al. emphasize that many small and medium-sized salons struggle with these inefficiencies, leading to missed opportunities and reduced customer loyalty. Svensson and Carlén's case study on the adoption of digital solutions in the service industry demonstrates how integrated platforms can address these issues by improving operational transparency, client interactions, and overall business efficiency.

## II. LITERATURE SURVEY

Salon management has rapidly evolved with the integration of digital technologies, particularly in enhancing customer experience and operational efficiency.

Agarwal et al. (2024) and Selvaraj et al. (2024) emphasize the transformative potential of Artificial Intelligence (AI) in Customer Relationship Management (CRM), enabling personalized services and improved customer retention. However, data quality and system integration remain critical challenges.

Garcia et al. (2024) and Chai & Wen (2017) explored online booking systems, noting limitations in usability and automation, which still require manual inputs. Oliverio et al. (2024) proposed scalable, centralized systems to address issues in managing multi-branch operations effectively.

Mobile-focused systems by Permatasari et al. (2024) and Putra et al. (2020) highlight features like real-time booking and geolocation to improve user experience. Similarly, Chen & Huang (2019) and Lee et al. (2021) reported increased customer satisfaction through synchronized web-based platforms.

Earlier models by Abella et al. (2009) and Kapoor & Gupta (2018) used PHP and MySQL for basic functionalities but lacked AI and modern interfaces. The literature points toward a clear trend of AI-driven, integrated, and user-friendly salon systems.

## III. PROBLEM STATEMENT

The wellness and salon industry is undergoing rapid digitalization, but many small to mid-sized salons face difficulties adopting and integrating effective technological solutions. Studies reveal several challenges, including poor system usability, limited scalability, weak functional integration, and low customer engagement. Garcia et al. (2024) and Chai & Wen (2017) highlighted issues with non-intuitive interfaces and continued reliance on manual booking methods. Oliverio et al. (2024) and Kapoor & Gupta (2018) noted limitations in managing multiple branches and service categories. Furthermore, Permatasari et al. (2024) and Chen & Huang (2019) discussed performance and synchronization problems in mobile and web-based systems, impacting real-time bookings.

Artificial Intelligence (AI) also brings challenges. Agarwal et al. (2024) and Selvaraj et al. (2024) reported a lack of structured data required for personalized, AI-driven customer experiences.

Concerns about security and data privacy, as raised by Putra et al. (2020) and Moon & Yang (2021), further complicate implementation. These issues highlight the need for a unified, secure, and user-friendly salon management platform.

#### IV. PROPOSED SYSTEM

The proposed system is a comprehensive and user-centric platform designed to manage the operations of a wellness and salon service provider. It incorporates role-based access for **Customers**, **Salon Owners/Admins**, and **Employees**, offering distinct interfaces and functionalities. The system enables user registration, shop and employee management, service listings, appointment bookings, and feedback mechanisms. This digital solution improves operational efficiency, enhances customer satisfaction, and supports multi-branch management through a centralized dashboard.

##### User Flow:

Start: The user begins by either logging in or signing up.

##### Login / Registration:

Login: Existing users (customers or admins) log in using their credentials.

Sign Up (Registration): New users register by providing their basic details to create an account.

##### Customer Flow (After Login):

Customer Home Screen:

- New Owner Flow:
  - Enter Shop Details
  - Enter Employee Details
  - Enter Services
- Dashboard:
  - Manage Employees (add/edit)
  - Add More Employees
  - Check Appointments
  - View Feedback

##### Admin Flow (After Sign Up):

Admin Home Screen:

- Select Shop
  - Select Services, Employees, and Time
    - If First Time Login: Set Up Profile
    - Else: Confirm Appointment
  - Feedback: Admin can view or provide feedback related to services or customers.
- An overview of the system's process is presented in the flowchart below.

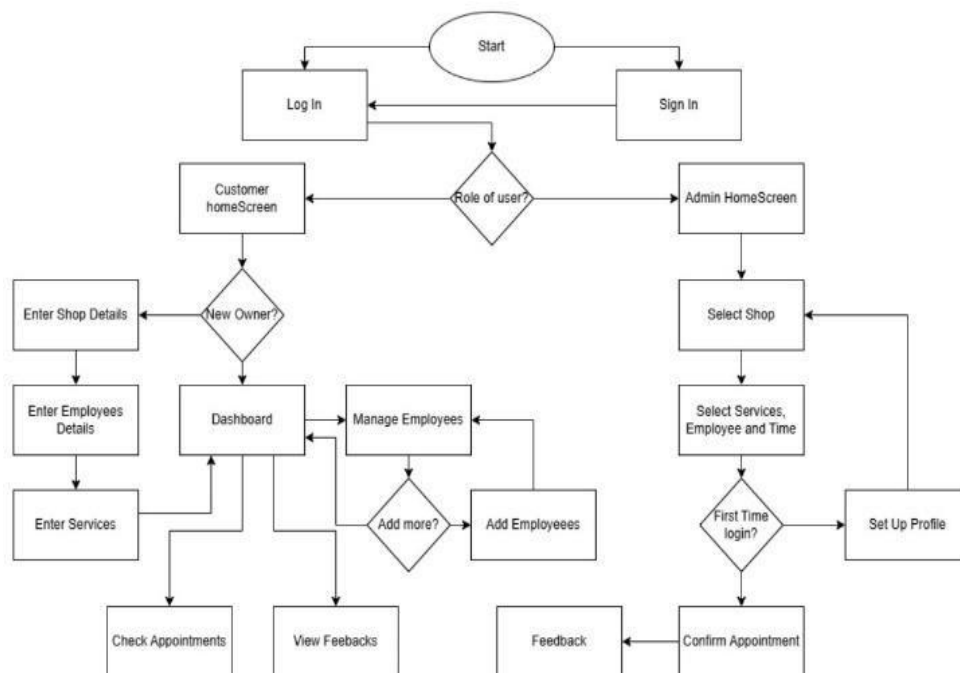


Fig. 4.1 Work-flow Diagram

## V. TECHNOLOGY USED

The proposed platform is developed using the MERN stack, ensuring real-time performance, cross-platform accessibility, and scalable backend services.

- React Native was utilized to develop the mobile application for both Android and iOS, enabling a shared codebase and a smooth, responsive user experience.
- MongoDB Atlas: A cloud-based NoSQL database for storing user profiles, bookings, and service listings with high availability and scalability.
- Node.js & Express.js: Handles backend API development, enabling asynchronous server-side operations and secure client-server communication.

## VI. CHALLENGES

The development of a Unified Platform for Wellness and Salon Services (UPWSS) faces several challenges that need to be addressed for successful implementation and adoption:

**Lack of scalability:** Oliverio et al. (2024) noted problems in handling multiple branches or growing user bases due to rigid system architecture.

**User data privacy:** Chen & Huang (2019) and Permatasari et al. (2024) mentioned risks related to storing personal information like contact details and payment data in online booking systems.

**Low mobile responsiveness:** Permatasari et al. (2024) pointed out performance issues in Android apps, affecting booking flow and customer satisfaction.

**Cost of implementation and maintenance:** Selvaraj et al. (2024) and Kapoor & Gupta (2018) discussed the financial burden for small salons in adopting AI or cloud-based systems.

**Inefficient appointment scheduling interface:** Chen & Huang (2019) found that poorly designed booking systems led to overlapping or missed appointments.

## VII. FEATURES AND FUNCTIONALITIES

Digital platforms in the wellness and salon industry offer features and functionalities that address operational inefficiencies, customer engagement gaps, and scalability challenges (Garcia et al., 2024; Agarwal et al., 2024; Oliverio et al., 2024; Low & Sloan, 2001). These features include:

**Real-Time Appointment Scheduling:** Enables users to book, modify, or cancel appointments with service providers based on real-time availability, enhancing convenience and reducing double bookings (Garcia et al., 2024; Chen & Huang, 2019).

**Rating and Feedback Mechanism:** Promotes transparency and quality control by enabling users to rate services and provide feedback (Moon & Yang, 2021; Garcia et al., 2024).

**Multi-Branch and Staff Management:** Allows salon owners to manage multiple branches, assign staff to appointments, and monitor performance from a centralized dashboard (Oliverio et al., 2024; Kapoor & Gupta, 2018).

**Mobile and Web-Based Access:** Offers cross-platform accessibility for both clients and admins through Android apps and web dashboards, enhancing user reach and engagement (Permatasari et al., 2024; Putra et al., 2020).

**Analytics and Reporting:** Empowers decision-makers with real-time data on bookings, earnings, and client behavior to optimize operations (Low & Sloan, 2001).

These functionalities reflect the growing importance of intelligent, user-focused platforms that streamline salon services and foster innovation within the industry.

## VIII. FUTURE RESEARCH DIRECTIONS

While salon management systems offer significant benefits, challenges remain. Issues like data security, customer privacy, and integration with other platforms need attention. Future research should explore the following directions :

**AI and Machine Learning:** Explore AI to personalize customer experiences, optimize operations, and predict trends in salon management.

**Blockchain for Security:** Research blockchain to enhance data security and transparency in salon management systems and client transactions.

**Multi-Platform User Experience:** Research seamless user experiences across mobile, desktop, and tablet platforms for salon management systems.

**Mobile App Development:** Investigate mobile apps to boost customer engagement, loyalty, and real-time support in salon services.

**AI-driven marketing strategies:** Aim to personalize promotions, predict customer behaviors, and boost retention through advanced technology.

## IX. CONCLUSION

A consolidated platform for wellness and salon services marks a notable progression in the beauty and wellness sector. By integrating various services such as booking, payment processing, client management, and marketing into one cohesive system, such a platform enhances operational efficiency and customer satisfaction. It not only streamlines the service delivery process for both clients and service providers but also fosters a seamless user experience. As technology continues to evolve, further innovations like AI-driven personalization, real-time analytics, and cross-platform integration will likely enhance the capabilities of such platforms. Ultimately, a unified solution will help businesses in the wellness and salon sector remain competitive, deliver superior services, and foster long-term customer loyalty.

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