SALOONIST ONLINE SALOON MANAGEMENT

A PROJECT REPORT SUBMITTED IN PARTIAL FULFILMENT OF REQUIREMENT FOR THE AWARD OF THE DEGREE

MASTER OF COMPUTER APPLICATIONS (MCA)

OF
MAHATMA GANDHI UNIVERSITY, KOTTAYAM
BY

ALBIN VINSON Reg No: 22PMC106



MAKING COMPLETE

Marian College Kuttikanam Autonomous

Peermade, Kerala – 685 531 2023

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Under the guidance of

Mr. Satheesh Kumar S
Assistant Professor
PG Department of Computer Applications
Marian College Kuttikkanam Autonomous



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PG DEPARTMENT OF COMPUTER APPLICATIONS

Marian College Kuttikkanam Autonomous

MAHATMA GANDHI UNIVERSITY, KOTTAYAM KUTTIKKANAM – 685 531, KERALA.

CERTIFICATE

This is to certify that the project work entitled

"SALOONIST"

is a bonafide record of work done by

ALBIN VINSON

Reg No: 22PMC106

In partial fulfillment of the requirements for the award of Degree of

MASTER OF COMPUTER APPLICATIONS [MCA]

During the academic year 2022-2023

Mr. Satheesh Kumar S

Mr Win Mathew John

Assistant Professor

Head of the Department

PG Department of Computer Applications

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Marian College Kuttikkanam Autonomous

Examiner Examiner

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Albin Vinson

ABSTRACT

This proposed website is a comprehensive and online website for a salon shop that allows users to book tickets for various services in the shop. The Saloon Management App Mini Project is a web-based application designed to help salon owners manage their business more efficiently. The app provides a range of features that allow salon owners to keep track of appointments, and staff schedules. This mini project was undertaken as part of the second semester mini project for the Master of Computer Application course. The aim of this project was to develop an application that would be useful to small business owners in the salon industry.

The project provides most of the basic functionality and information a user will need. It allows the users to book the services available and to be sure to get the service at the required time, and then allow them to do it after registering and also takes the users to the payment gateway. All user login and contact data are stored in the database. It uses html and CSS as the front-end language and SQL as the back end of the project. Customers don't have to go to salon and wait at endless lines to get the service, resulting in reducing the crowd. The salon industry has experienced significant growth in recent years, leading to an increased demand for efficient salon booking management systems. This abstract presents a proposal for a salon booking management system, which aims to streamline the appointment scheduling process and enhance the overall customer experience.

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SALOONIST	
1.INTRODUCTION	
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INTRODUCTION

This project report "SALOONIST", presents the development and implementation of a hair salon booking management system aimed at streamlining the appointment scheduling process, enhancing customer satisfaction, and optimizing salon operations. To overcome the challenges the currently, our project focuses on designing and implementing a comprehensive salon booking management system.

This web-based application will serve as a centralized platform for salon owners, staff, and customers to manage appointments, access real-time information, and personalize the salon experience. By leveraging modern technologies and intuitive user interfaces, the system aims to optimize the appointment scheduling process, improve communication, and enhance the overall efficiency and profitability of hair salons.

The key features of the salon booking management system include a user-friendly interface for easy navigation, appointment scheduling and management capabilities. Through the implementation of these features, the system aims to revolutionize the way hair salons handle their bookings and enhance customer satisfaction

This project report will provide a comprehensive overview of the system's analysis, design, implementation, and evaluation processes. It will outline the specific problem statements addressed, the methodologies employed, and the outcomes achieved. Additionally, the report will highlight the significance and potential impact of the salon booking management system on the hair salon industry, along with recommendations for future enhancements and expansions.

By addressing the existing challenges in salon booking management, this project endeavors to contribute to the growth and success of hair salons, ultimately benefiting salon owners, staff, and customers alike.

OBJECTIVE AND SCOPE

The primary objective of this project is to address the existing challenges faced by hair salons in managing their appointments efficiently. Traditional methods of appointment scheduling, relying on manual paper-based systems or basic digital solutions, often lead to scheduling conflicts, missed appointments, and difficulty in maintaining customer preferences and stylist availability. These issues not only result in customer dissatisfaction but also hinder the overall productivity and growth of the salon. This project has a wider scope and is created to deploy for the whole of Kerala region.

- Available 24/7, anywhere
- Better user experience and good user interface
- Its cost effectiveness and time saving nature because the customer does not have to wait in long queues for getting the service
- All services in the system are verified and managed by the admin

1.1 PROBLEM STATEMENTS

- 1. Inefficient appointment scheduling process.
- 2. Lack of real-time information for salon staff and customers.
- 3. Limited customer personalization and tracking of preferences.
- 4. Communication gaps and missed reminders

1.2 PROPOSED SYSTEM

The proposed hair salon booking management system is a web-based application designed to streamline the appointment scheduling process and enhance the overall customer experience. It aims to provide salon owners, staff, and customers with a user-friendly and efficient platform for managing appointments, accessing real-time information, and personalizing salon services.

FEATURES OF THE PROPOSED SYSTEM

- 1. User-friendly Interface: The system will feature an intuitive and visually appealing interface, ensuring ease of use for both salon staff and customers. It will facilitate quick navigation, service selection, and appointment booking.
- 2. Appointment Scheduling and Management: The system will offer a comprehensive booking that allows salon staff to efficiently manage appointments. Real-time updates will enable staff to view and modify schedules, assign stylists, and send automated reminders to customers.
- 3. Customer Profiles and Preferences: The system will store customer information, including contact details, appointment history, and preferred services. This data will enable salon staff to provide personalized services, anticipate customer needs, and enhance the overall salon experience.
- 4. Booking Management: The system will include features to track and manage the booking in the salon real time at all circumstances

Through the proposed system, hair salons can expect improved efficiency in appointment scheduling, reduced scheduling conflicts, enhanced customer satisfaction through personalized services and better experience

SALOONIST	
	2. FUNCTIONAL
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	REQUIREMENTS
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2.1 FUNCTIONAL REQUIREMENTS

- 1. User Registration and Authentication:
 - Allow salon staff and customers to register and create user accounts.
 - Implement authentication mechanisms to ensure secure access to the system.
- 2. Appointment Scheduling:
 - Provide a booking interface for salon staff to manage appointments.
 - Allow staff to add, modify, and cancel appointments based on availability.
 - Prevent scheduling conflicts.
 - Enable customers to view available time slots and book appointments online.
- 3. Customer Profile Management:
 - Maintain customer profiles with information such as contact details, appointment history, and preferred services.
 - Allow customers to update their profiles and provide additional preferences or special requirements.
- 4. Stylist Availability and Assignment:
 - Maintain a database of salon stylists and their availability schedules.
 - Enable staff to assign stylists to specific appointments based on their availability and customer preferences.
- 5. Service Catalogue:
 - Maintain a catalogue of available salon services, including descriptions, durations, and prices.
 - Allow customers to browse and select services during the appointment booking process.
- 6. Administrative Dashboard:
 - Provide an administrative dashboard for salon owners or managers to oversee the system, manage user accounts, and access reports through Django Jazzmin features

SALOONIST
3. NON-FUNCTIONAL
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REQUIREMENTS

NON-FUNCTIONAL REQUIREMENTS

1. Usability:

- The system should have a user-friendly interface with intuitive navigation and clear instructions to ensure ease of use for salon staff and customers.
- The system should support multiple languages to cater to a diverse customer base, if applicable.
- The system should have responsive design, ensuring it is accessible and functional across different devices and screen sizes.

2. Performance:

- The system should be able to handle concurrent user interactions and maintain responsiveness even during peak usage periods.
- The response time for key system functions, such as appointment scheduling and customer profile updates, should be quick and efficient.

3. Security:

- The system should implement robust security measures to protect sensitive data, such as customer information and payment details.
- User authentication and authorization mechanisms should be implemented to ensure secure access to the system's functionalities.

4. Reliability:

- The system should have high availability and minimize downtime to ensure uninterrupted access for users.
- Data backups and disaster recovery mechanisms should be in place to prevent data loss and facilitate system recovery in case of failures.

5. Scalability:

- The system should be designed to accommodate potential growth and an increasing number of salon staff and customers.
- It should be scalable to handle an expanding service catalogue, additional salon locations, and increasing appointment volumes.

SALOONIST

6. Integration:

• The system should have the capability to integrate with other systems, such as a payment gateway, customer relationship management (CRM) software, or inventory management systems, as required.

7. Data Privacy and Compliance:

- The system should adhere to relevant data protection and privacy regulations, ensuring that customer information is securely stored and handled.
- Compliance with industry standards and regulations, such as the General Data Protection Regulation (GDPR), should be considered.

8. Maintenance and Support:

- The system should be easily maintainable, allowing for bug fixes, updates, and enhancements.
- Adequate documentation should be provided to facilitate ongoing system maintenance and support for future development.

Interface requirements:

Hardware configuration

- Processor Pentium III 866 MHz
- RAM 128 MB Ram
- Monitor 15-inch color
- Hard disk 20 GB
- Floppy drive 1.44 MB
- CD drive LG 52X
- Keyboard Standard US Keyboard
- Mouse Software configuration
- Operating system Windows XP Professional
- Environment Visual studio NET 2005 4.6
- Language python Django framework with Jazzmin
- Back end SQLITE

SALOONIST
Technologies used
• Python
• Django Framework
• SQLITE
• HTML and CSS
These non-functional requirements complement the functional requirements and
ensure that the hair salon booking management system meets the desired quality attributes
and performance expectations.
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SALOONIST	
4.	FEAUTURES AND
	HIGHLIGHTS

FEATURES AND HIGHLIGHTS

These are the key features

- 1. Intuitive User Interface:
 - A user-friendly interface that is visually appealing and easy to navigate for both salon staff and customers.
 - Clear and intuitive design to enhance the user experience and make the booking process seamless.
- 2. Appointment Scheduling and Management:
 - A comprehensive booking that enables salon staff to efficiently manage appointments, avoiding scheduling conflicts.
 - Real-time updates and notifications to ensure accurate and up-to-date appointment information for both staff and customers.
 - Flexible appointment modification and cancellation options for staff and customers, ensuring flexibility and convenience.
- 3. Customer Profiles and Preferences:
 - Customer profile management system that allows salon staff to store and access customer information, including contact details, appointment history, and preferences.
 - Personalized service recommendations based on customer preferences, enhancing the overall salon experience.
- 4. Stylist Availability and Assignment:
 - A system that allows salon staff to manage stylist availability and assign them to specific appointments based on their schedules and expertise.
 - Efficient matching of customer preferences with available stylists, ensuring customer satisfaction.
- 5. Automated Reminders and Notifications:
 - Automated appointment reminders sent to customers via email or SMS, reducing no-shows and increasing appointment attendance.
 - Real-time notifications to salon staff for new bookings, cancellations, and modifications, ensuring timely and effective communication.

SALOONIST

- 6. Service Catalogue:
 - A comprehensive catalogue of salon services with detailed descriptions, durations, and prices.
 - Easy browsing and selection of services for customers during the appointment booking process.
- 7. Integration with Payment Gateway:
 - Seamless integration with a secure payment gateway to facilitate online payment for salon services, providing convenience for customers.
- 8. Mobile-Friendly and Responsive Design:
 - A system that is accessible and functional across various devices, including mobile phones and tablets.
 - Responsive design that adapts to different screen sizes, ensuring a consistent user experience.

These features contribute to the overall effectiveness and efficiency of the hair salon booking management system, enabling improved customer satisfaction, streamlined operations, and data-driven decision-making. These are highlighted comprehensively below

- 1.Users can register and login into the system
- 2.Users can search for services
- 3. Users can book services
- 4.Registered users can send feedbacks
- 5.User can view their bookings in profile
- 6. The Admin can view
 - 1. The whole Database
 - 2.Booking details
 - 3.Feedbacks
- 7. Admin can add user
- 8. Admin can add bookings
- 9. Admin can modify, manage and delete bookings

SALOONIST
5.TECHNICAL ASPECTS

Technical Aspects:

1. Technology Stack:

• Determine the programming languages, frameworks, and libraries that will be used to develop the system. For example, you may choose to use technologies like HTML, CSS, JavaScript, and a server-side language such as Python, Ruby, or PHP. Frameworks like React, Angular, or Vue.js can be used for front-end development, while frameworks like Django, Ruby on Rails, or Laravel can be used for back-end development.

2. Database Management:

 Select an appropriate database management system (DBMS) to store and retrieve data efficiently. Common choices include MySQL, PostgreSQL, or MongoDB. Consider the data structure and relationships required for storing information such as customer profiles, appointments, stylist availability, and inventory.

3. System Architecture:

 Design a scalable and modular system architecture that separates concerns and allows for future expansion and enhancements. Consider using a layered architecture, such as a three-tier architecture, where you have separate layers for presentation (front-end), application logic (back-end), and data storage (database).

4. APIs and Integrations:

• Determine if there is a need to integrate with external systems or services, such as a payment gateway or a CRM platform. Research and utilize appropriate APIs or libraries to facilitate these integrations securely.

5. Security Measures:

 Implement robust security measures to protect user data, including proper authentication and authorization mechanisms. Ensure sensitive information, such as passwords and payment details, are stored securely using encryption techniques.

SALOONIST

6. User Interface Design:

 Create a visually appealing and user-friendly interface for both salon staff and customers. Consider using modern design principles and frameworks to achieve a responsive and intuitive user interface.

7. Testing and Quality Assurance:

 Develop a comprehensive testing strategy, including unit testing, integration testing, and user acceptance testing. Implement automated testing frameworks, such as Selenium or Jest, to ensure the reliability and functionality of the system.

8. Deployment and Hosting:

 Decide on the hosting environment for your system, whether it be a cloud platform (such as AWS, Google Cloud, or Azure) or a dedicated server.
 Set up proper deployment processes and scripts to streamline the deployment of new updates or features.

9. Performance Optimization:

 Optimize the system's performance to handle concurrent user interactions and provide a smooth user experience. Implement caching mechanisms, minimize database queries, and utilize technologies like CDN (Content Delivery Network) to reduce latency.

10. Documentation:

 Document the system architecture, design decisions, installation instructions, and guidelines for future maintenance and development.
 Provide clear and comprehensive documentation to facilitate understanding and collaboration among developers and stakeholders.

Third Party Libraries

Third-party applications and libraries in Django are pre-built components or packages developed by the community or other companies that you can use to extend the functionality of your Django projects.

Third-party libraries can be installed using package managers like pip, and they usuallycome with their own documentation and examples to guide developers in their usage. These libraries can cover a wide range of functionalities

The third-party libraries used in this project are:

- 1. **Django Jazzmin:** Django Jazzmin is a third-party library that provides an enhanced admin interface for Django projects. The default Django admin site offers basic functionality for managing data, but Jazzmin enhances the look and feel of the admin site with a modern and customizable design. It introduces features like a responsive layout, dark mode, improved filtering, and additional customization options. Jazzmin makes it easier and more pleasant for administrators or staff members to manage data, perform CRUD operations, and navigate through the Django admin interface. It can be integrated into a Django project with minimal configuration and provides a range of customization options to tailor the admin interface to your specific project's needs.
- 2. **Bootstrap:** Bootstrap is a popular front-end CSS framework that provides a collection of pre-built components and styles for creating responsive and visually appealing web interfaces. It offers a grid system, typography, forms, buttons, navigation components, and more. By using Bootstrap, you can easily structure and style your web pages, ensuring they look good on different screen sizes and devices. It also includes JavaScript plugins for adding interactive features such as modals, dropdowns, and carousels. Bootstrap is widely adopted and has extensive documentation and community support.

Architecture of the project

a) Presentation Layer:

The presentation layer represents the user interface through which salon staff and customers interact with the system. It includes the web-based interface that allows users to view salon services, book appointments, and manage their profiles. This layer is responsible for handling user input, displaying data, and providing a seamless user experience.

- User Interface (UI): This layer includes the components that interact with users, such as web pages or mobile app screens.
- Django Templates: Django's built-in template engine allows you to define HTMLtemplates that render dynamic content and interact with the backend.

b) Application Layer:

The application layer contains the core business logic of the hair salon booking management system. It handles various functionalities such as appointment scheduling, customer profile management, and stylist assignment. This layer interacts with the database layer to retrieve and update data as necessary.

- Django: Django serves as the back-end framework, handling HTTP requests, routing, and managing the application's business logic.
- Django Views: Views receive requests from the user interface, process data, and generate appropriate responses. They interact with models, services, and external APIs as needed.
- Django Forms: Forms handle user input validation and data submission, allowingusers to input and update travel-related information

c) Database Layer:

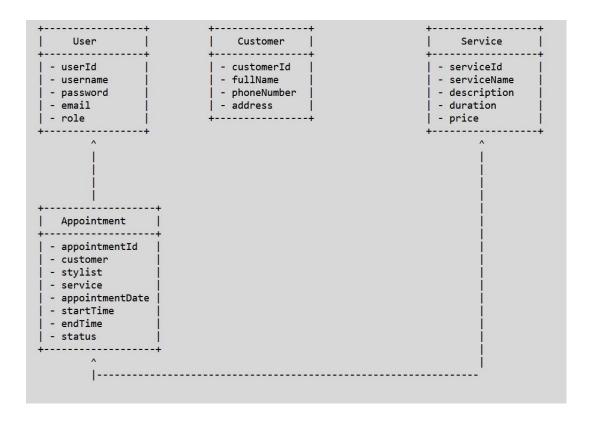
The database layer stores and manages the data required for the system's operation. It includes tables or collections to store information such as customer profiles, appointment details, stylist availability, and inventory.

The database layer handles data persistence and ensures data integrity and security. External Services and APIs:

This architecture follows a three-tier model, where the presentation layer handles the user interface, the application layer contains the business logic, and the database layer manages the data storage and retrieval. The integration with external services and the underlying infrastructure provides additional functionality and hosting capabilities

DATABASE

CLASS DIAGRAM



In the class diagram above, the classes User, Customer, Service and Appointment are represented.

- The User class represents the users of the system, including salon staff and customers.
- The Customer class represents the customers of the salon and has a one-to-one relationship with the User class.
- The Service class represents the salon services that customers can book, such as haircuts or color treatments.
- The Appointment class represents a booked appointment and contains references to the Customer, Stylist, Service, and other relevant attributes.

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6.CHALLENGED FACED DURING DEVELOPMENT

Challenges faced during development

During the development of a hair salon booking management system, I encountered various challenges. Here are the common challenges and how I faced and addressed them:

- 1. User Interface Design: Designing an intuitive and visually appealing user interface can be challenging. Ensure you conduct user research, gather feedback, and iterate on the design to create a user-friendly experience. Consider usability testing and incorporating user interface design best practices.
- 2. Complex Business Logic: Hair salon booking management involves various business rules and complex workflows. Analyze the requirements thoroughly and break down the logic into manageable components. Use modular programming and design patterns to handle complex scenarios effectively.
- 3. Scheduling and Availability: Managing stylist availability, overlapping appointments, and accommodating customer preferences can be challenging. Implement an efficient scheduling algorithm that takes into account various factors such as stylists' schedules, service durations, and available time slots.
- 4. Scalability and Performance: As the number of salon staff and customers grows, ensuring system performance and scalability can be a challenge. Optimize database queries, implement caching mechanisms, and use scalable hosting infrastructure to handle increased user loads.
- 5. Security and Data Privacy: Protecting customer data and ensuring secure access to the system is crucial. Implement appropriate authentication and authorization mechanisms, utilize encryption for sensitive data, and follow security best practices to mitigate the risk of data breaches.
- 6. Integration with External Services: Integrating with external services, such as payment gateways or third-party APIs, may present challenges due to varying documentation, compatibility issues, or changing API versions. Thoroughly research the integration requirements, communicate with service providers, and ensure proper error handling and fallback mechanisms are in place.

SALOONIST

- 7. Testing and Quality Assurance: Testing the system thoroughly can be challenging, especially when dealing with complex business logic and various user scenarios. Develop a comprehensive testing strategy that includes unit testing, integration testing, and user acceptance testing. Use testing frameworks and tools to automate testing processes where applicable.
- 8. Adoption and Training: Introducing a new system to salon staff and customers can face resistance or require additional training. Plan for effective change management, provide user training and support, and communicate the benefits of the system to encourage adoption.
- 9. Maintenance and Support: Once the system is deployed, ongoing maintenance and support are essential. Plan for regular updates, bug fixes, and user support. Establish mechanisms for user feedback and issue tracking to address any system improvements or customer concerns.

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7.FUTURE	
ENHANCEMENTS	
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FUTURE ENHANCEMENTS

- Mobile Application: Develop a mobile application for both salon staff and
 customers, providing a convenient platform for managing appointments, accessing
 salon services, and receiving notifications. This allows users to book appointments
 on-the-go and increases accessibility.
- Online Payments: Integrate secure online payment options within the system, allowing customers to make payments for services directly through the platform. This simplifies the payment process and provides a seamless experience for customers.
- 3. Stylist Profiles and Ratings: Enhance the system by adding stylist profiles that showcase their expertise, experience, and customer ratings. This allows customers to make informed decisions when selecting a stylist and encourages stylists to deliver exceptional service.
- 4. Automated Reminders and Notifications: Set up automated reminders and notifications to remind customers about upcoming appointments, changes in schedule, or promotions. This helps reduce no-shows and improves communication between the salon and customers.
- 5. Advanced Reporting and Analytics: Enhance the reporting capabilities of the system to generate insights and analytics about customer preferences, popular services, peak booking times, and stylist performance. This data can inform business decisions, marketing strategies, and resource allocation.
- 6. Advanced Search and Filtering: Implement advanced search and filtering options, enabling customers to search for specific services, stylists, or appointment slots based on criteria such as availability, location, or price range. This improves the overall user experience and helps customers find their desired services quickly.
- 7. Multi-Location Support: If the salon expands to multiple locations, enhance the system to support multiple salon branches, allowing customers to choose their preferred location during the booking process. This ensures a seamless experience for customers regardless of the salon location they prefer.

SALOONIST		
	8.CONCLUSION	

CONCLUSION

In conclusion, the development of the hair salon booking management system has addressed the challenges faced by traditional salon booking processes and streamlined the appointment management workflow for both salon staff and customers. By implementing this system, the salon has gained several benefits, including improved efficiency, enhanced customer experience, and increased operational effectiveness.

Through the project, I have successfully developed a web-based platform that allows customers to easily view salon services, book appointments, and manage their profiles. Salon staff can efficiently manage appointments, assign stylists, and track inventory using the system. The integration of a user-friendly interface, robust database management, and secure authentication mechanisms has ensured a seamless and reliable user experience.

The project has achieved its primary objectives, including automating appointment scheduling, simplifying the booking process, and providing real-time availability information. By leveraging technologies such as web development frameworks, database management systems, and integration with external services, we have built a scalable and extensible solution. While the project has delivered significant value to the salon, there are potential future enhancements that can further improve the system. These include the development of a mobile application, implementation of online payment options, integration with social media platforms, and the introduction of advanced reporting and analytics features.

In conclusion, the hair salon booking management system represents a valuable tool for the salon industry, empowering both salon staff and customers to efficiently manage appointments and streamline the booking process. It has the potential to revolutionize the way salons operate, making the booking experience more convenient, personalized, and enjoyable for customers while increasing the salon's operational efficiency and profitability.

SALOONIST	
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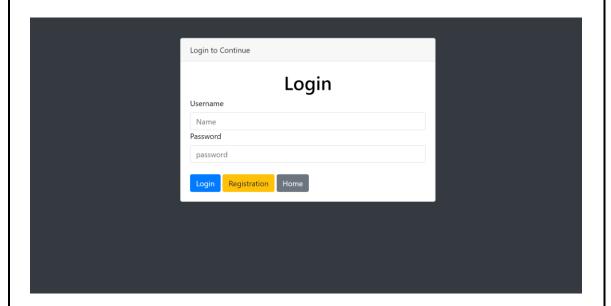
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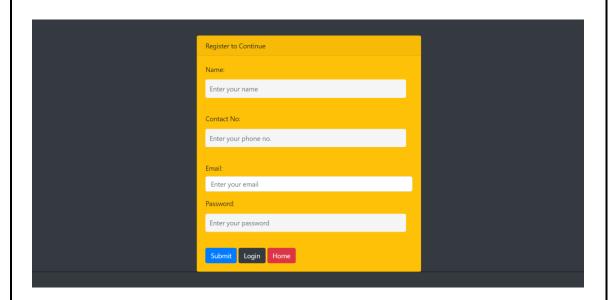
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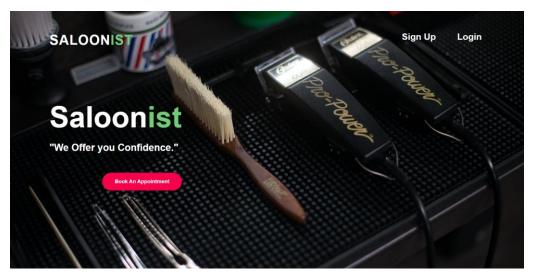
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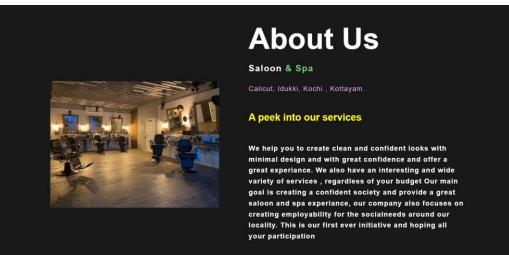


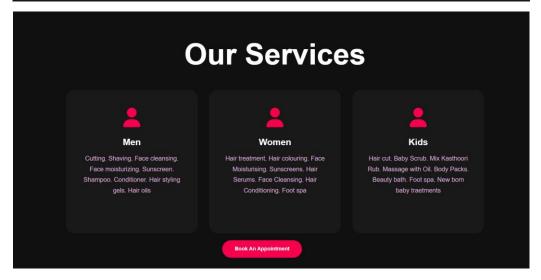
REGISTRATION PAGE



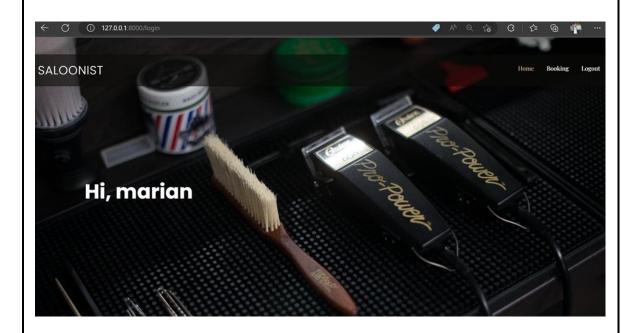
HOME PAGE



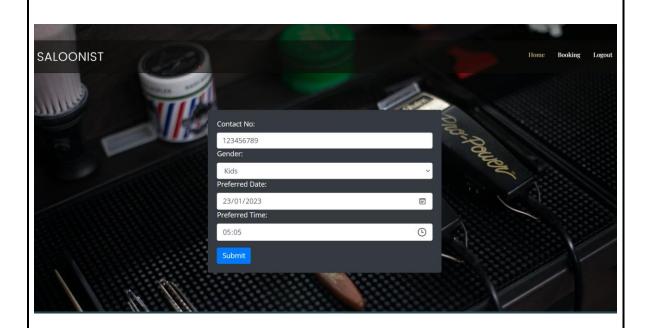




USER LANDING PAGE

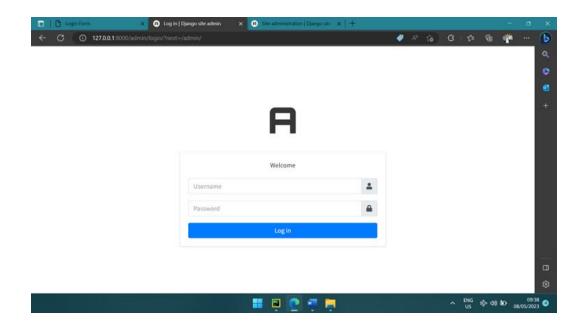


BOOKING PAGE

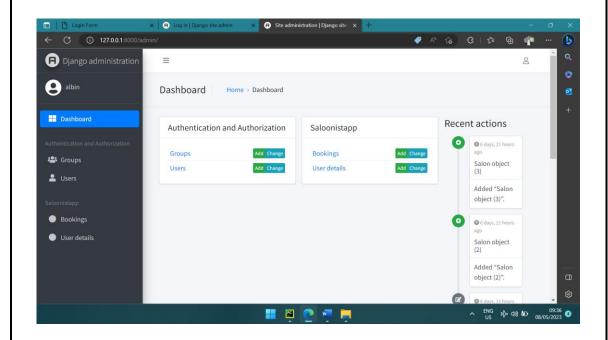




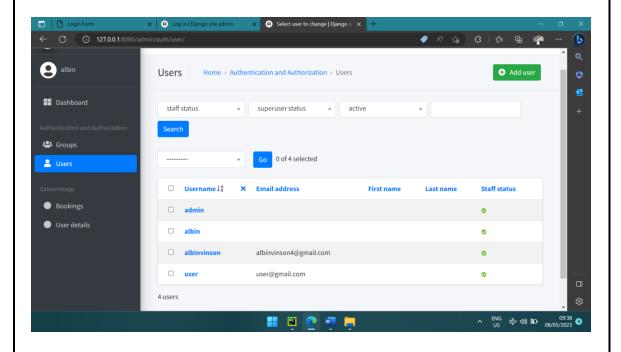
JAZZMIN ADMIN PAGE

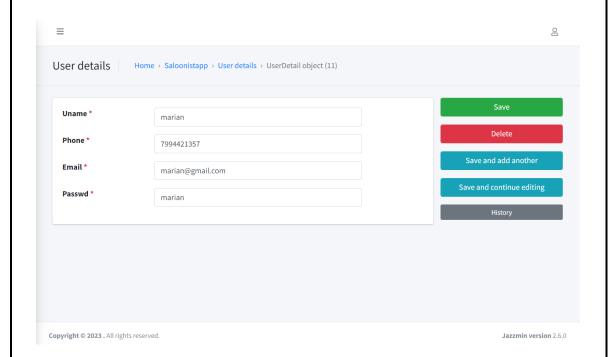


ADMIN DASHBOARD



USER LOGS





BOOKING LOGS

