

DATABASE MANAGEMENT SYSTEM (CSE-302)

PROJECT NAME: ASMA (Automated Salon Management Agenda)

Group NO: Group-2

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Introduction:

The salon industry is one of the most lucrative yet highly competitive industries. Every day one finds a new salon opening up around the corner. Most women look at salon services as a necessity rather than a luxury. It's not easy to manage a salon business with so much competition. Running a salon can be complicated and overwhelming. The smallest mistake can cause a significant dent in your business.

Gone are the days of tedious, manual operations. Most salons now use the latest AI-driven salon management solutions to stay ahead in the game. Salon management systems can help you run your business in an organized manner. They can help you serve your customers better and keep them coming back for more.

Present System:

In present system you have to call the salon to fix an appointment. After taking an appointment you have to remember the date of the appointment. User is also not able to find the best salon in their locality. He can find out the services of any salon only after taking their services. But in proposed system you can check review online and find out who is giving best services. User can also check that which salon gives good customer satisfaction.

In current system salon take appointment on register. They manage customer record on register. And it is very difficult to find out old appointment details in this system. Making report for the salon business is also very tiresome task. this system is prone to costly human error. Beauty parlour management system allow salon to manage stylists and services, promote sales to customers, and track customer satisfaction.

The salon has employees who provide hair services. To date, all the employees and the owner take a part in recording transactions information manually. The transactions are categorized into daily and periodic transaction. The daily transactions include recording payments, appointments, and customer information. The periodic transactions include recording new product information, amount of stock added and the amount of stock that have been used. The information recorded during daily and periodic transactions are needed as a reference record used during stock check, and analysis of service sales. The salon relies on the non-computerized system to record those transactions currently. Yet, the non-computerized system inconveniences the owner and employees when any calculation needs to be completed fast, searching is needed, and when analysis is conducted. These processes are time consuming especially searching the customer information for generating the monthly and yearly revenue reports. Therefore, a systematic computerized system for Shears Inc. Salon Management System using object-oriented approach was designed, developed and tested.

Shears Inc. Salon is a hair salon owned by Mr. Kenny. The salon is located at Lot 1980, Block 16 KCLD, Brighton Square Jalan Song, Kuching, Sarawak, Malaysia. The operating hours is from Monday to Sunday, 10a.m. to 8p.m. and can be contacted at 082-285556. The salon offers hair services such as cut, wash, rebounding, bleach, perming, and colour. Shears Inc Management System is a system that allows users to record different type of information such as record appointments, records product information, records transactions, display appointments in both calendar and planner form and generate reports on the performance of employees. In summary, this system is successfully developed and the objectives are fulfilled. However, an enhancement should be complete as future work is adding the customer booking module which allow the customer to view the calendar of the stylist then book the time online.

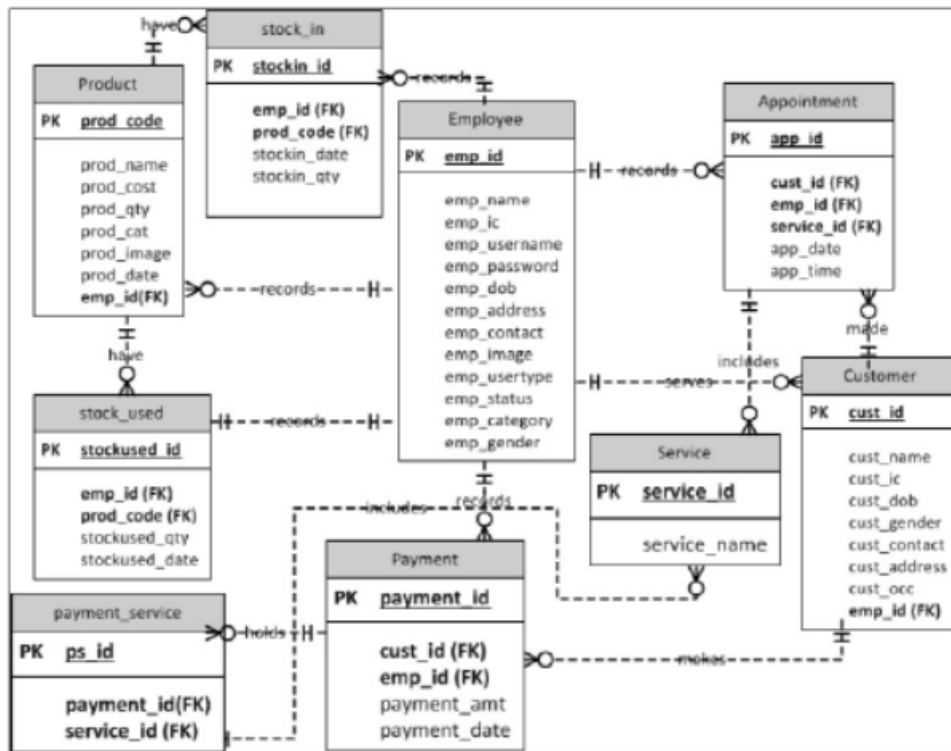


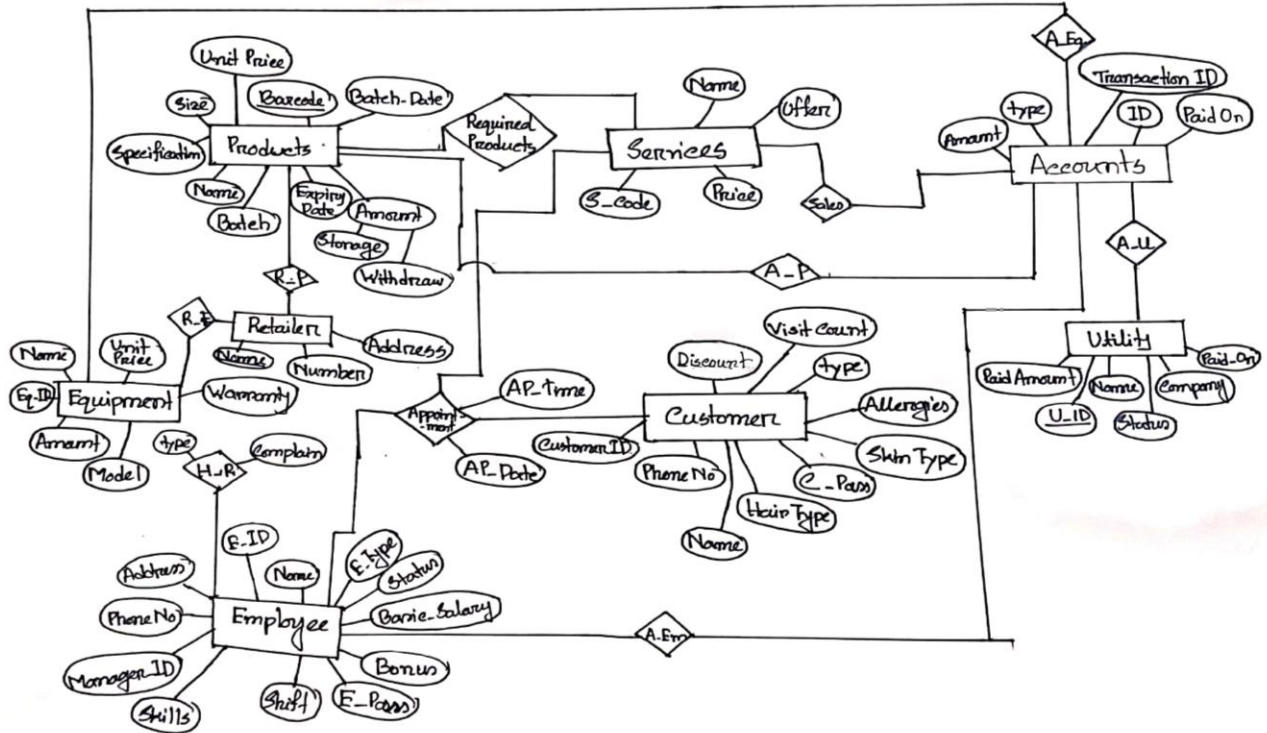
Fig. 1 ERD Shears Inc. Salon Management System

Proposed System:

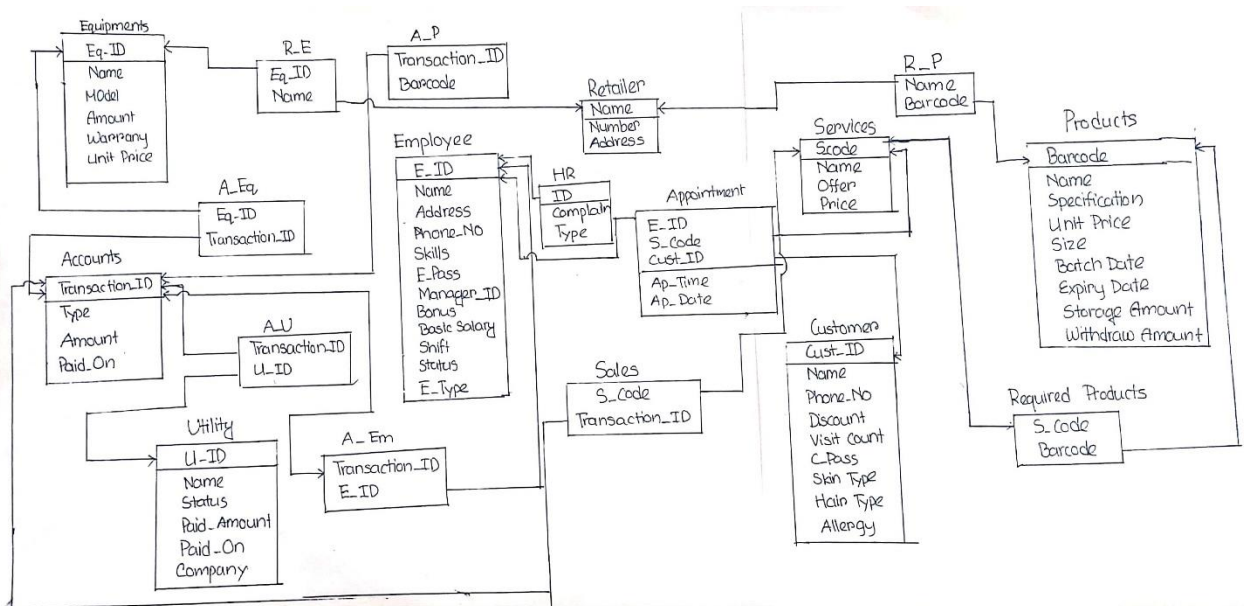
Conceptual Design:

A system for managing a hair salon. This system keeps track of employee salaries, inventory and customer data along with billing. This is a fully equipped system that alone manages the entire functioning of a hair salon. It maintains stock of inventory coming in. It also manages individual employee salary. The system is even equipped to manage customer billing and data storage.

ER Diagram

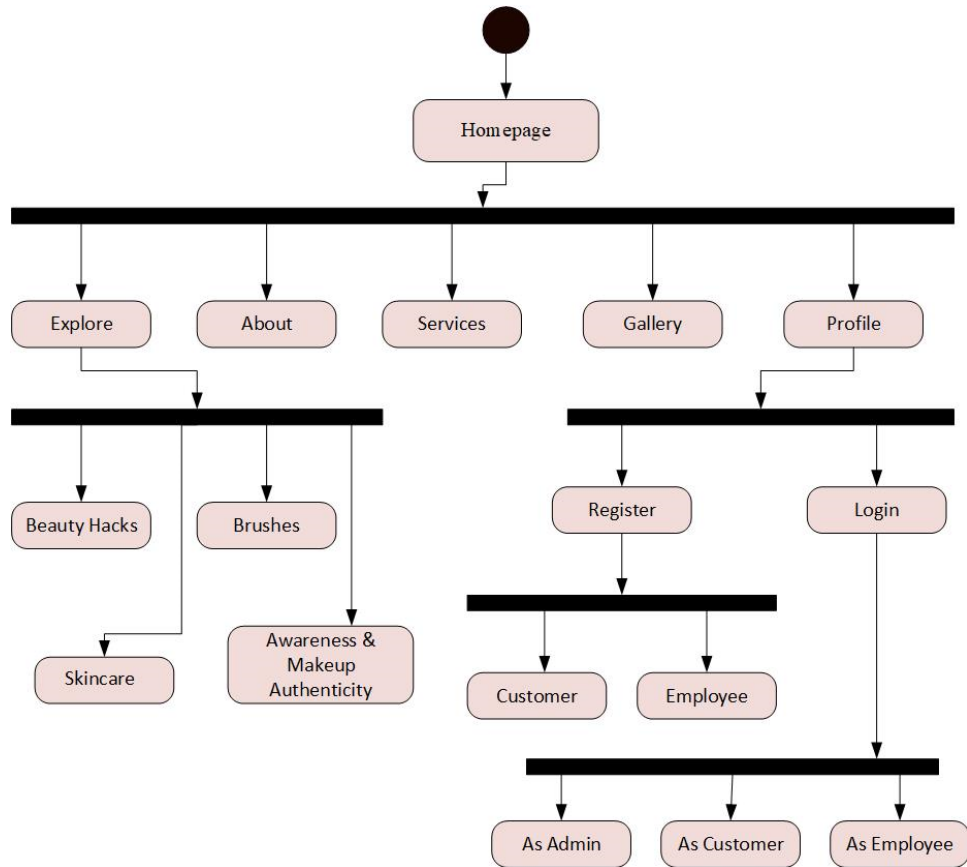


Schema Diagram

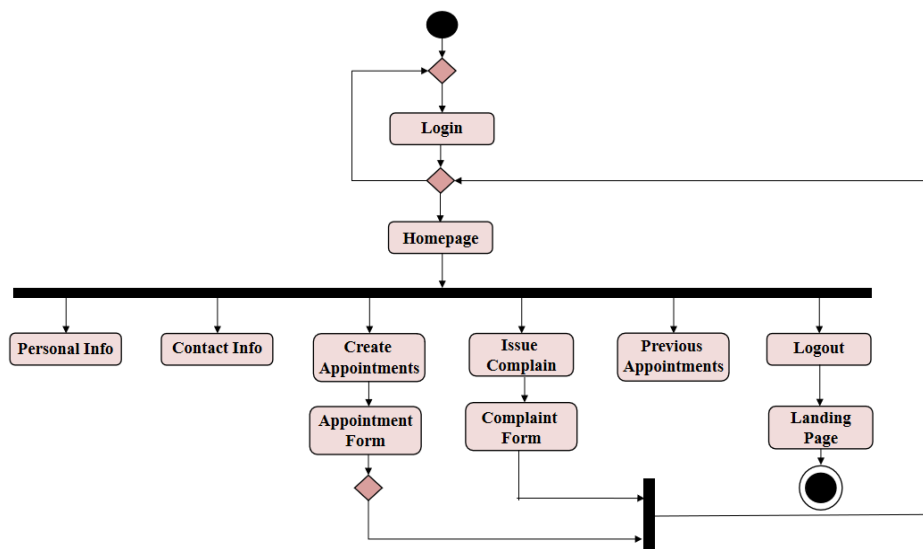


Work Flow

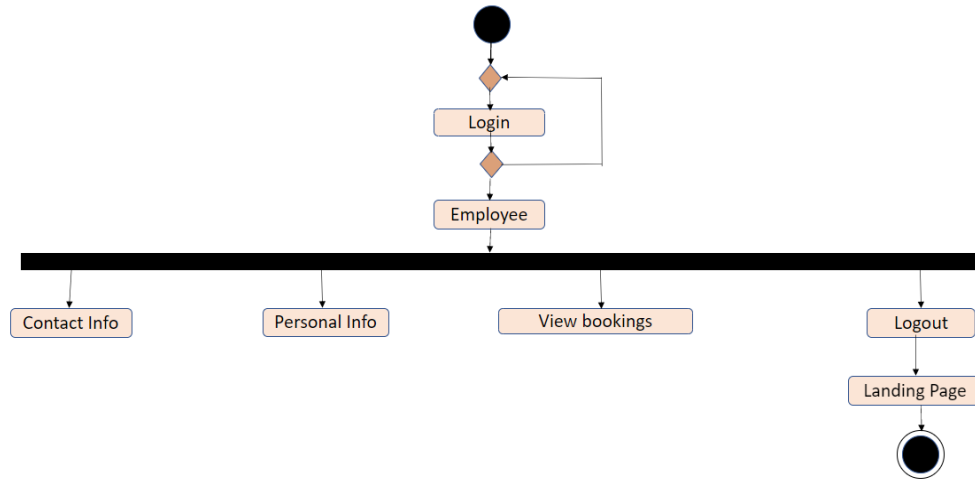
➤ Landing Page:



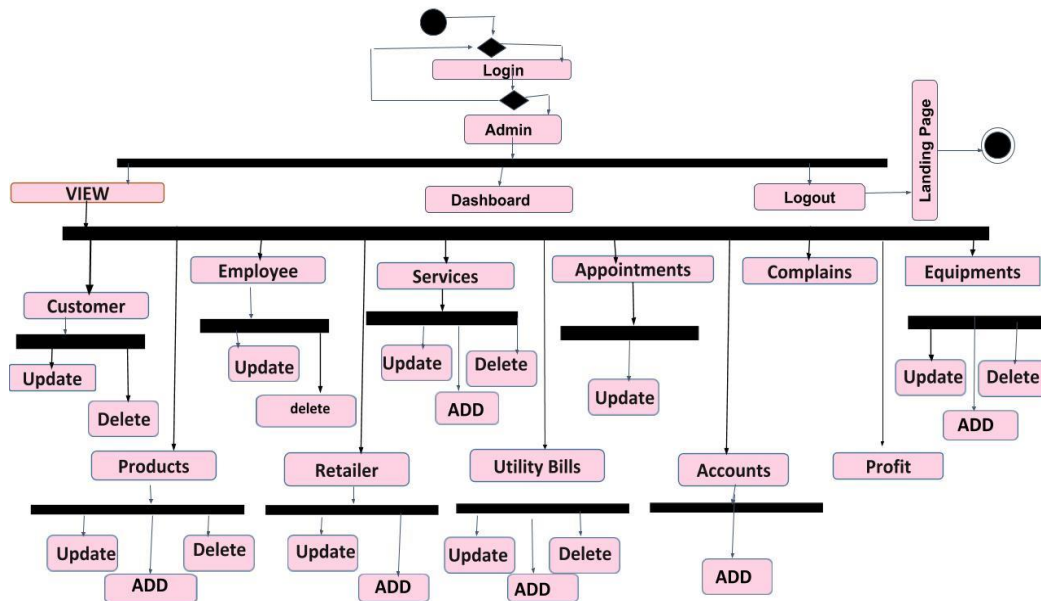
➤ Customer:



➤ **Employee:**



➤ **Admin:**

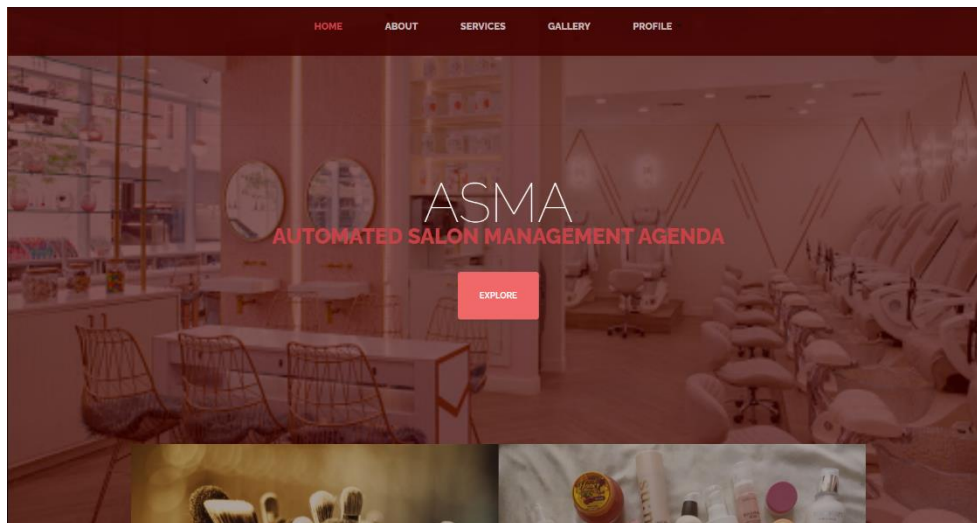


Development of System:

The present invention is directed to a method and system for managing information of employees and customers in a salon or spa. The server can store information about the employees, the clients and the appointments during which the employees provide services to the clients. The server can store information about each client including hair type, skin type, allergies, service and product purchase history and any preferences. The system utilizes a website which runs at multiple user levels, each having different access privileges. The types of users include an admin, employees, customers and guests.

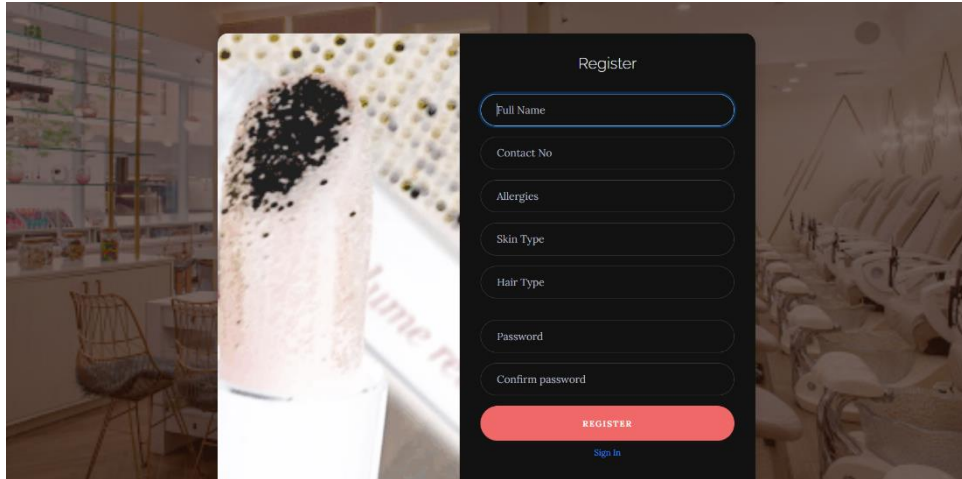
Employee users are created as their information is entered into the database. Customers are registered users. They have registered accounts, appointment history and an editable user profile. Guests are the visitors to the website. They will be allowed to browse the site, view provided services and prices as well as view contact information about the salon. However, they will not be able to make an appointment through the website unless they create an account or call the salon directly.

Guest users are led straight to our homepage. They can then choose to view provided services or learn more about the salon or even the gallery, which contains photos of previous customers.

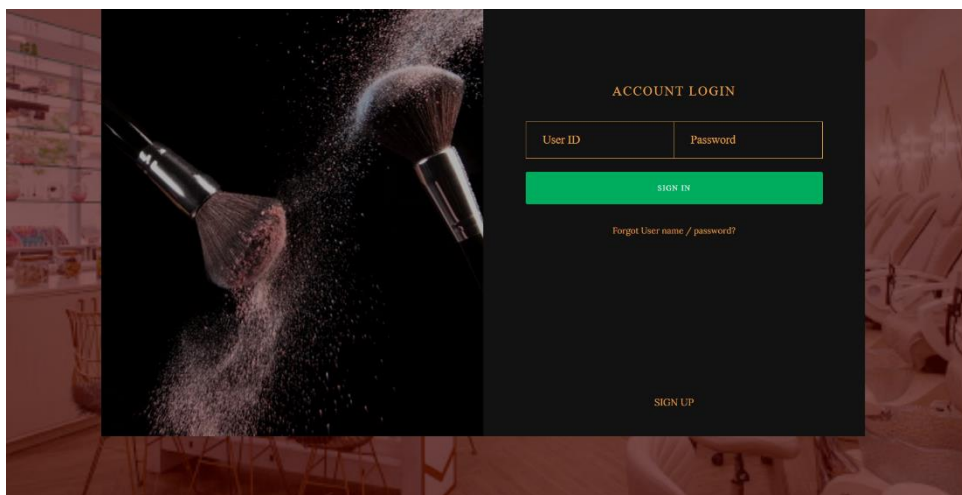


Below the login form there is a **Register** option. Clicking this option loads up the registration form. After entering necessary information and clicking **Register** button will take them to **Login** page, where they have to login.

ASMA-Automated Salon Management System

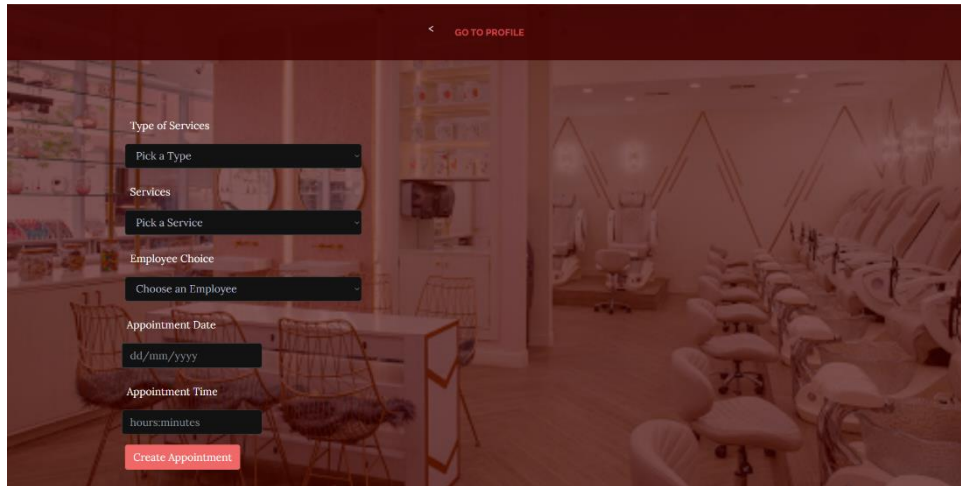


Users who have already registered can select the **Login** option from the navigation strip. After logging in, they will be led to their profile page. The profile page contains their registered information. Some new options are also added to the navigation strip alongside the previous ones. This includes Profile, Appointment and Logout options.



The **Profile** option is for navigation to their own profile information and appointment history. The **Appointment** options led to the page for booking an appointment. Customers are able to choose service, appointment date and time as well as any products they prefer and any allergies. **Allergies** in this section refer to allergies or adverse reactions to any specific product (since general allergies are already registered in the database).

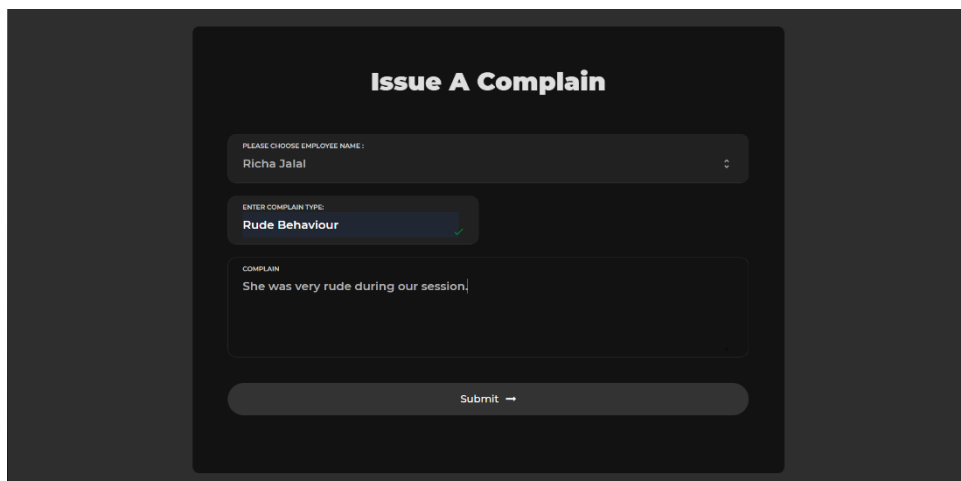
ASMA-Automated Salon Management System



The screenshot shows a web interface for creating an appointment. At the top, there is a navigation bar with a back arrow and a "GO TO PROFILE" link. The main content area is overlaid on a background image of a salon. The form includes the following fields:

- Type of Services:** A dropdown menu with the placeholder "Pick a Type".
- Services:** A dropdown menu with the placeholder "Pick a Service".
- Employee Choice:** A dropdown menu with the placeholder "Choose an Employee".
- Appointment Date:** A text input field with the placeholder "dd/mm/yyyy".
- Appointment Time:** A text input field with the placeholder "hours:minutes".
- Create Appointment:** A red button at the bottom of the form.

Customers can also file under the **File A Complaint** section. Clicking this section loads the Complaint page, where the customer has to select the employee, type of complaint and the complaint itself. These complaints are reviewed and resolved by the admin.

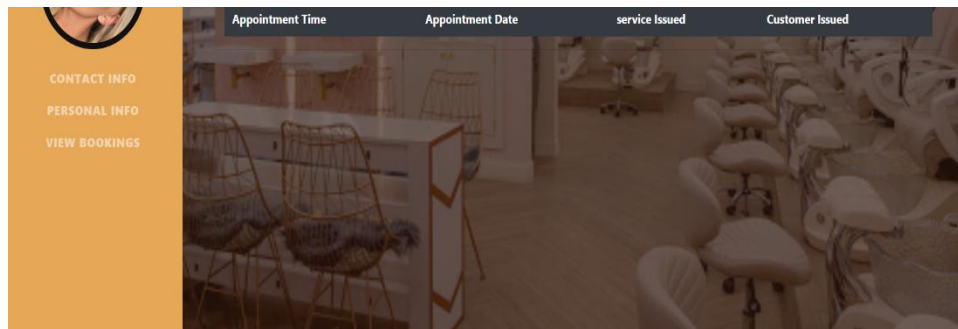


The screenshot shows a web interface for filing a complaint. The title "Issue A Complain" is centered at the top. The form includes the following fields:

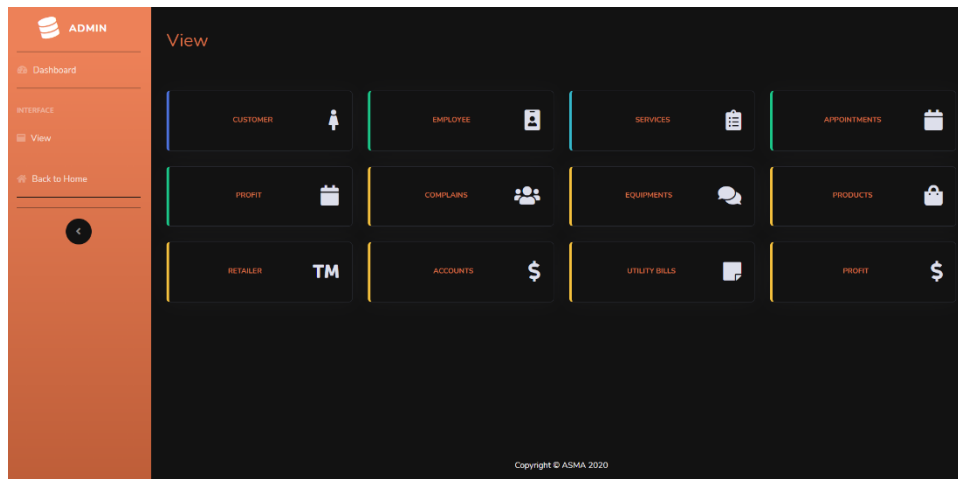
- PLEASE CHOOSE EMPLOYEE NAME:** A dropdown menu with "Richa Jalal" selected.
- ENTER COMPLAIN TYPE:** A dropdown menu with "Rude Behaviour" selected, accompanied by a green checkmark.
- COMPLAIN:** A text area containing the text "She was very rude during our session!".
- Submit:** A button at the bottom of the form with a right-pointing arrow.

Employees are required by the salon to create their accounts on their first day. After registering, they can click on the **Login** option and fill up the form to login into their accounts. Each employee has their profile. This page contains their general information. They can view appointments of that day and update time if needed as well as customer name, phone number, skin type, hair type and allergies. They can also edit their personal information.

ASMA-Automated Salon Management System

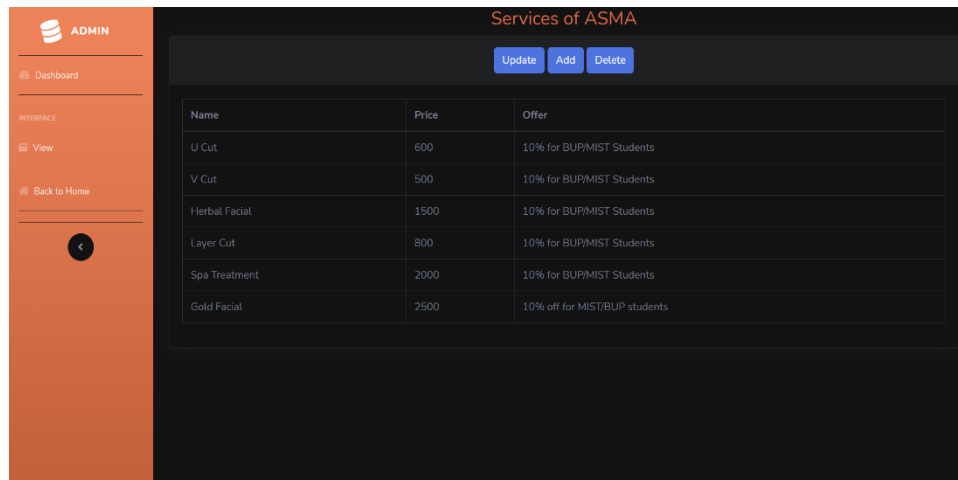


The ASMA website has a single admin account. The admin login page cannot be accessed from other pages. Admin page's navigation panel contains **View**, **Back to Home** and **Logout**. Selecting the **View** option will load the Table View page. This page contains the name cards of 10 table of the database, which includes **Customer**, **Employee**, **Services**, **Appointments**, **Accounts**, **Monthly Profit**, **HR**, **Equipements**, **Products**, **Retailer** and **Utility Bills**.



Clicking on the table name will load the table information. An admin has the access to view, add and update the tables according to the requirements of our clients.

ASMA-Automated Salon Management System



Admin has the privilege to update the **visit count** of the customer upon customer's each visit to the parlour. Every time the visit count is updated automatically **customer type** (type A if he/she is highly regular, B for semi-regular and C for irregular) and **discount** (up to 40% depending on customer type) is generated.

Another interesting thing in the system is **Accounts** handling. Every time a customer pays for the appointment taken or any employee is given salary or utility bill is paid or any equipment or product is bought, is recorded by the system as **money transaction**. Upon **each transaction's date** the **total monthly expenditure** and **sales** is accumulated and calculated automatically by the system through backend procedures (works like function in the database). The **profit** for each month is then **generated** by the system **automatically** and recorded for further view and analysis by the admin panel.

System Requirement:

| Back End | Front End |
|---------------------------|-------------|
| Oracle11g Express Edition | HTML |
| Xampp Version 3.2.2 | CSS |
| SQL Developer 19.0.2 | Java Script |
| OS: Windows 10 | PHP |

Discussion:

Our beauty salon management system is a web-based salon management application with efficient appointment scheduling functionality. The UI of the system is developed using HTML, CSS, JavaScript and connected with the backend using PHP. The backend is implemented using Oracle 11g Express. ASMA transforms a paper-based system to an automated system. All sorts of important paper works and calculations is implemented in an automated way. This system ensures data security as well as data are stored and backed up. A central body can easily control the system hence reduces workload.

Limitation and future expansion:

As an industry, salons have yet to embrace technology in ways other industries have. Many salons operate without the use of a computer system or specific salon management software. They schedule appointments by writing them in an appointment book. However, even the salons that operate with computers and management software are limited because the only provides basic functionality. This limits how much of this software can we deploy especially since the current employees don't have the required technical skills necessary. Add to that the fact that most businesses cut costs in our current economic situation which begs the question, "Will the salon owners consider this a worthwhile investment, considering that most technical lingo would go over their head?"

Conclusion:

To manage the large salon business, you have to need the software that automate your business in a productive way. Presently each visit must be deliberately arranged ahead of time. Post-lockdown counsel focuses on the significance of decreasing in-store contact in any event, during the registration and instalment form so individuals basically strolling in and examining the most fitting date and time for ten minutes in a row is a major no-no.

To stay on top of the competition, all salons, old and new, big or small, must embrace technology. Implementing a salon management system can help you run your salon business systematically as it streamlines and automates various operational processes. More and more beauty parlours are beginning to explore the benefits of beauty salon management system.