



Beauty Craft

REDEFINING YOUR BEAUTY

Integrated Management System for Beauty Salons

CS Group 30
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Our Team

CS30



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01

Introduction



Beauty Craft is an integrated management system for beauty salons.

System mainly focuses on efficient and user-friendly reservation management as well as managing organizational work of the salon requiring minimum user effort and time.

The ultimate goal is to maximize the customer satisfaction and increase the revenue by that.



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Project Description

Problem



In customers' point of view

- Uncertain and considerably long waiting time.
- Inefficient reservation handling process.
- Availability of preferred service provider is not guaranteed.

Problem



In staff's point of view

- Inefficient reservation handling process.
- No centralized database to manage staff and customer records.
- No quick and easy way to track progress to take managerial decisions.
- Manually go through service records to calculate salaries.

Solution

Beauty Craft is an integrated salon management system that provides following subsystems to mitigate the above mentioned problems.





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Requirement Analysis

User Identification



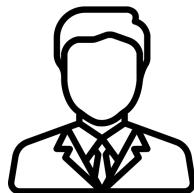
Customer



Receptionist



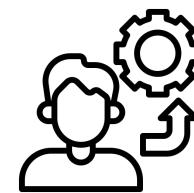
Employee



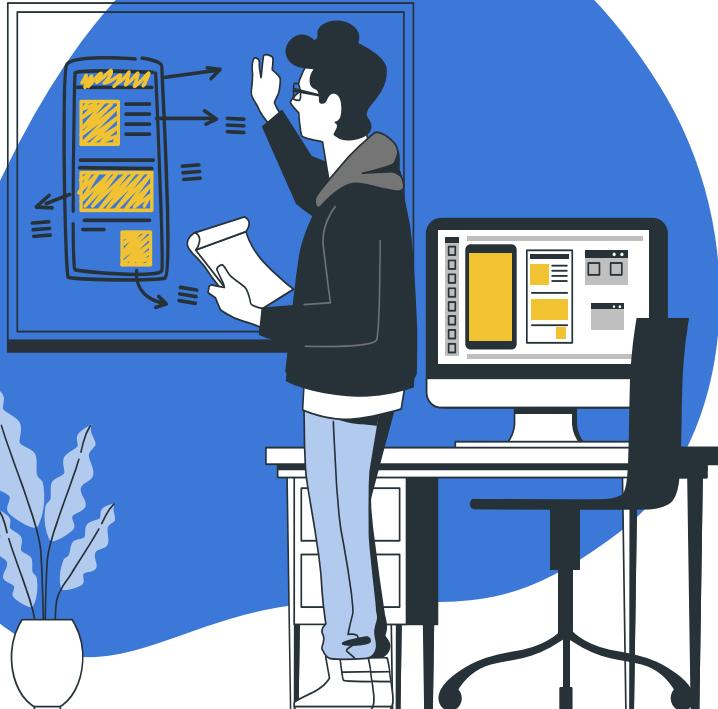
Manager



Owner



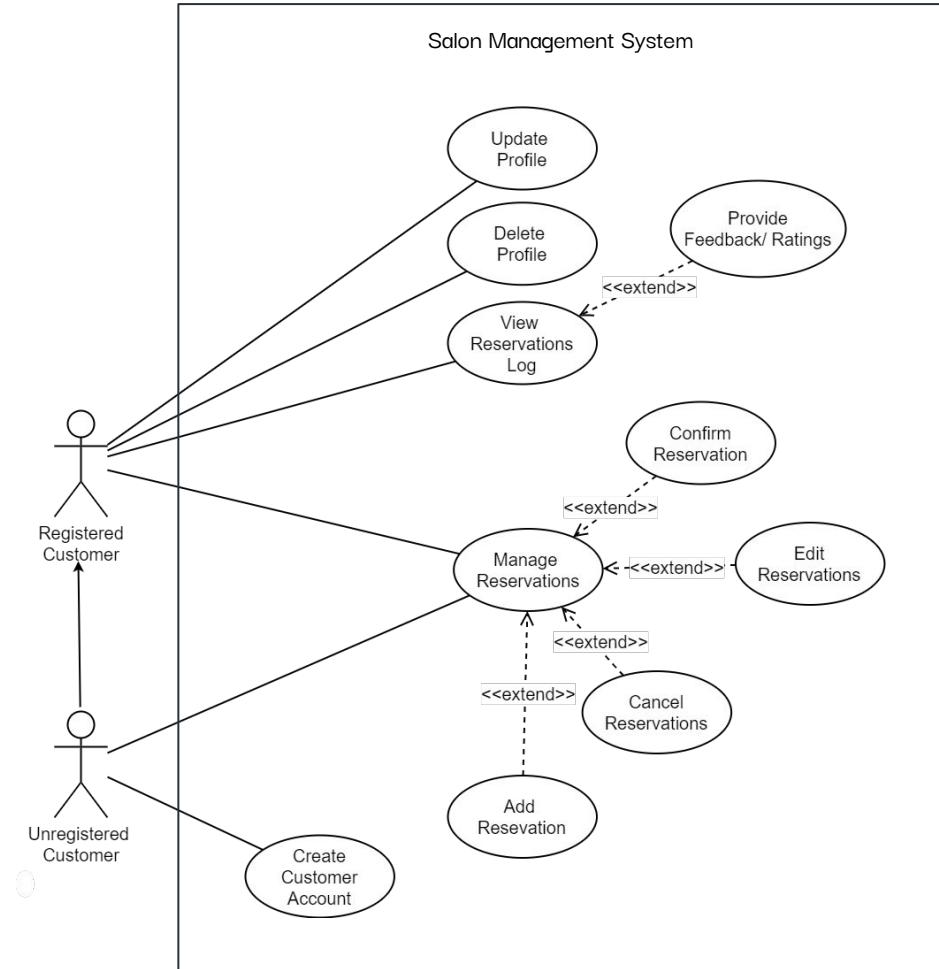
System Admin



Functional Requirements

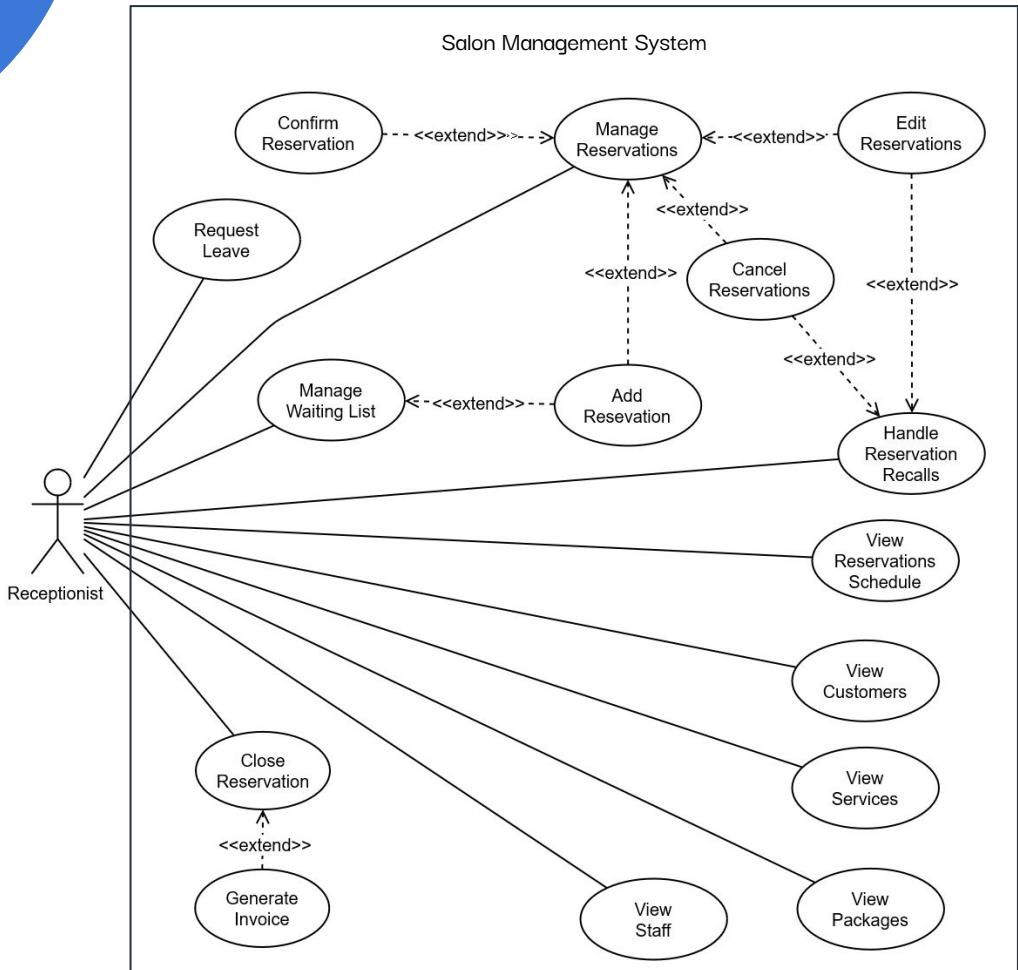
Customer

- Create customer account (unregistered)
- Manage profile
- Add reservations
- Cancel/ edit reservations
- View reservation log
- Provide feedback/ ratings



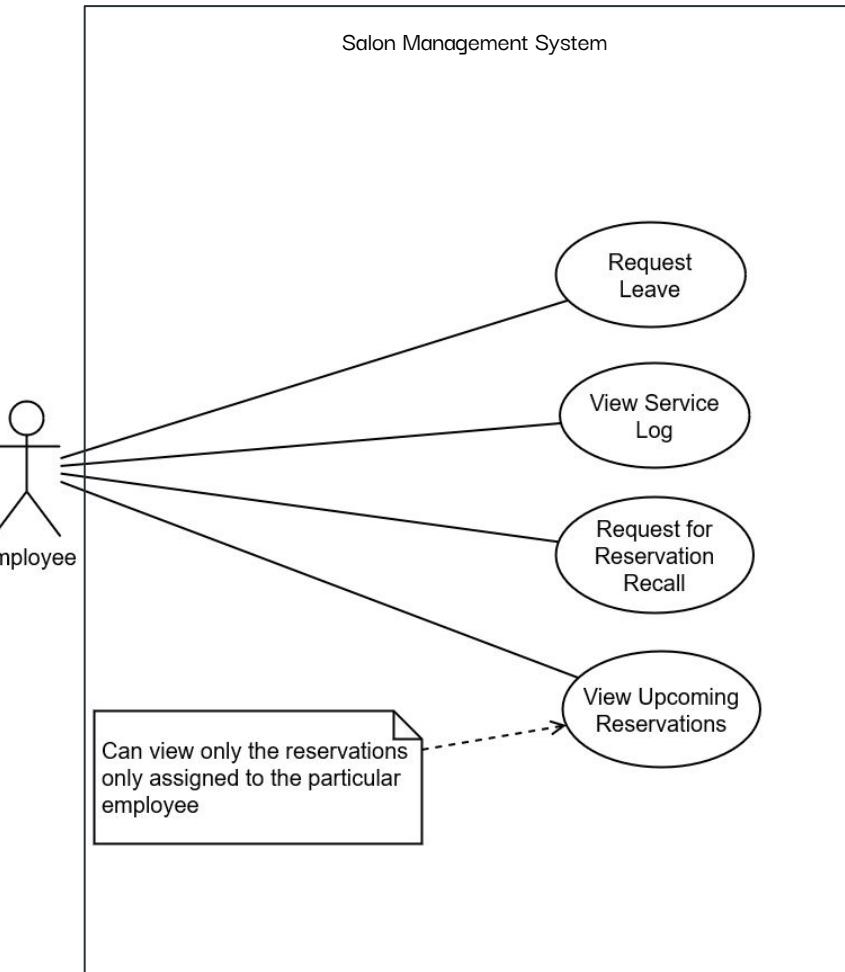
Receptionist

- Manage reservations
- View reservation schedule
- Manage waiting list
- Handle reservation recalls
- Close reservations
- View customer, staff
- View services, packages
- Request leaves.



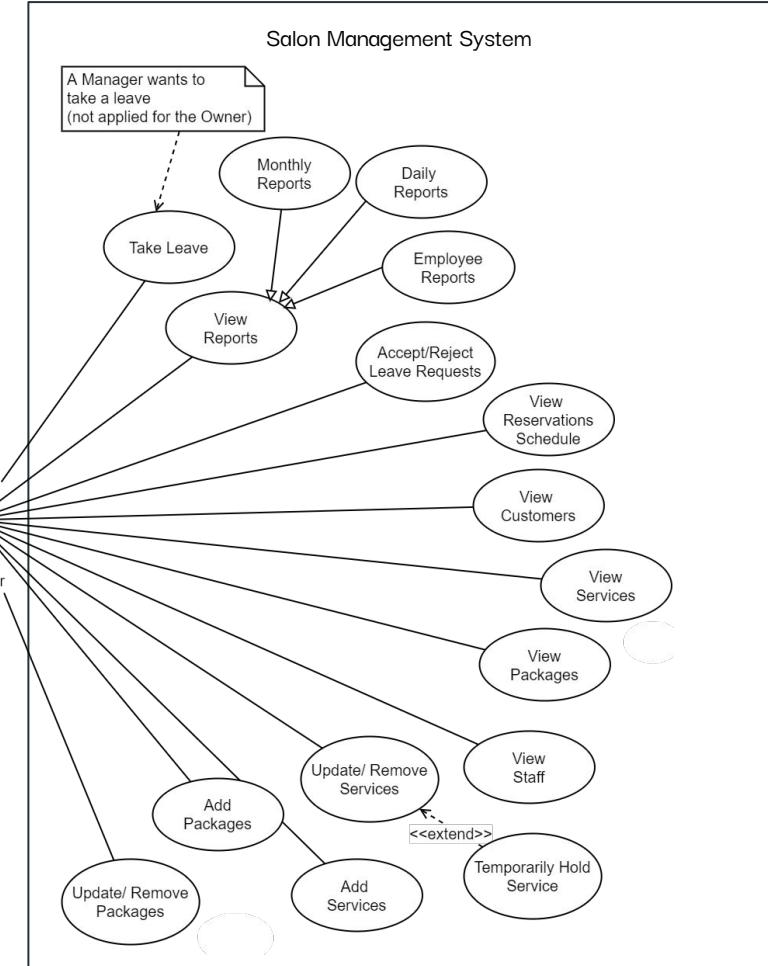
Employee

- View upcoming reservations
- Request for reservation recalls
- View service logs
- Request leaves



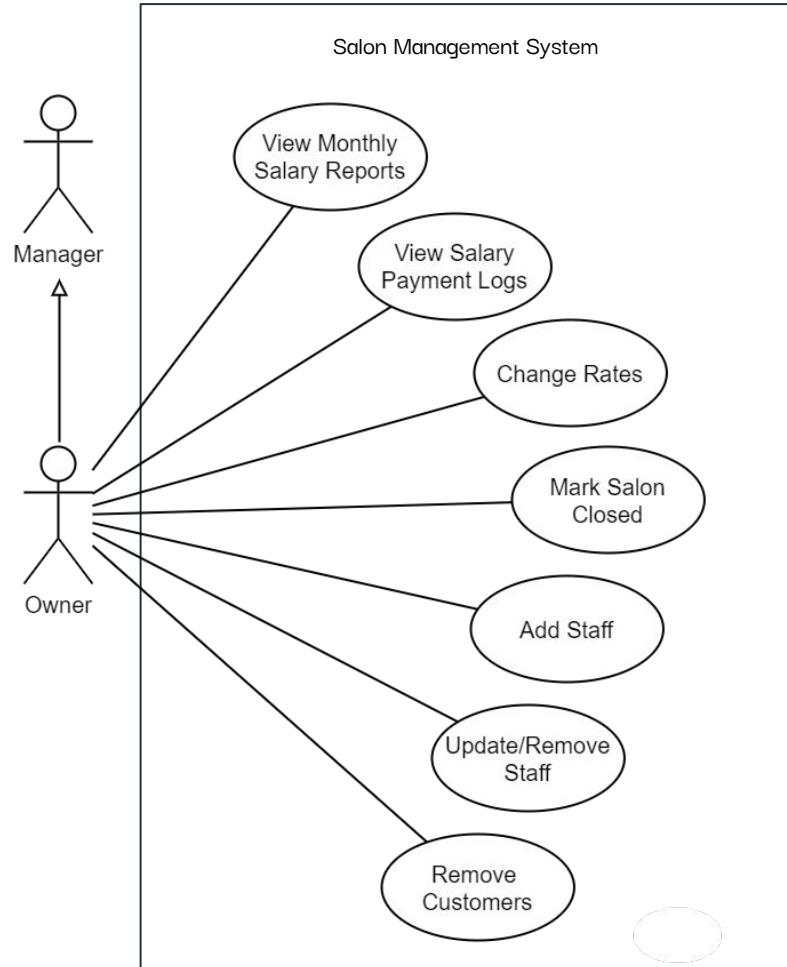
Manager

- Add services and packages
- View services and packages
- Update/Remove services and packages
- View staff members, customers
- View reservation schedule
- View employee, daily and monthly reports
- Accept or reject leave requests of the employees
- Take leaves



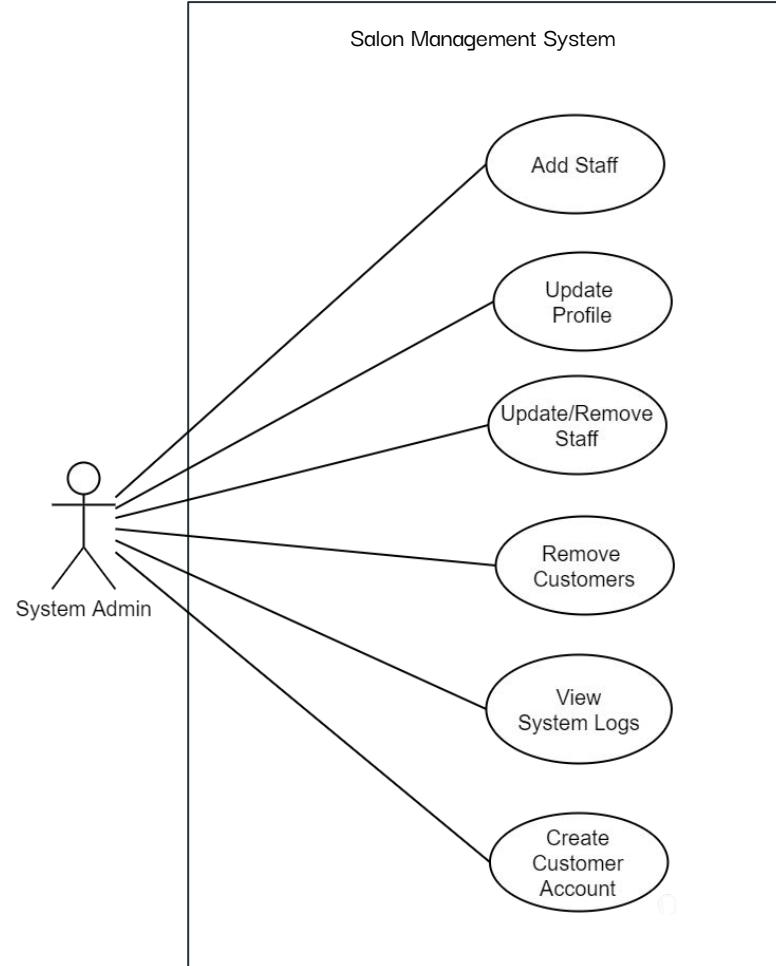
Owner

- Can perform all operations relevant to Manager
- Add staff members to the system
- Update/ Remove staff members of the system
- Remove customers from the system
- View monthly salary reports and view in detail salary statements person wise
- View salary payment logs.
- Change rates
- Close the salon



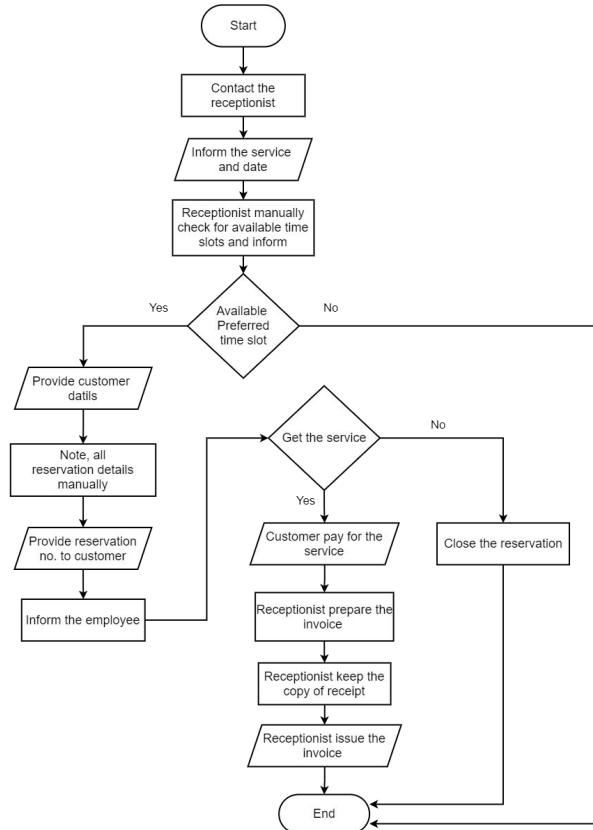
System Admin

- Create and remove user accounts of the system
- Update profile
- View system logs

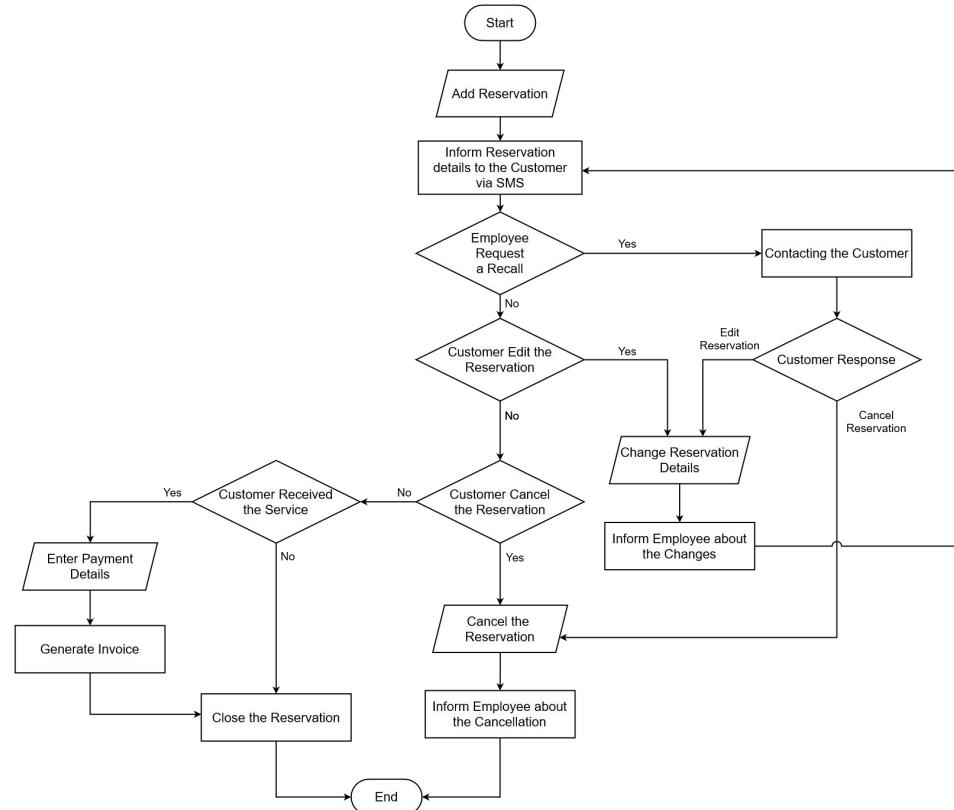


Process Flowcharts

Manual Process



In our system



System Boundary

Out of Scope

- Online payment handling related to reservations.
- Inventory management related to the products used in the salon.



Quality Attributes

Quality Attributes

Usability



- Minimal and clear user interfaces.
- Confirmation and popup messages.
- Responsive UIs for better usability on different devices.

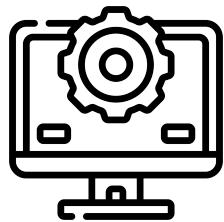
Security



- Authenticate actors via the login system.
- Limiting access based on user levels.
- Use of hashing when storing passwords.

Quality Attributes

Modifiability



- Minimize inter-dependencies by creating the system as components.
- Responsibilities of each component are focused on specific tasks.

Availability



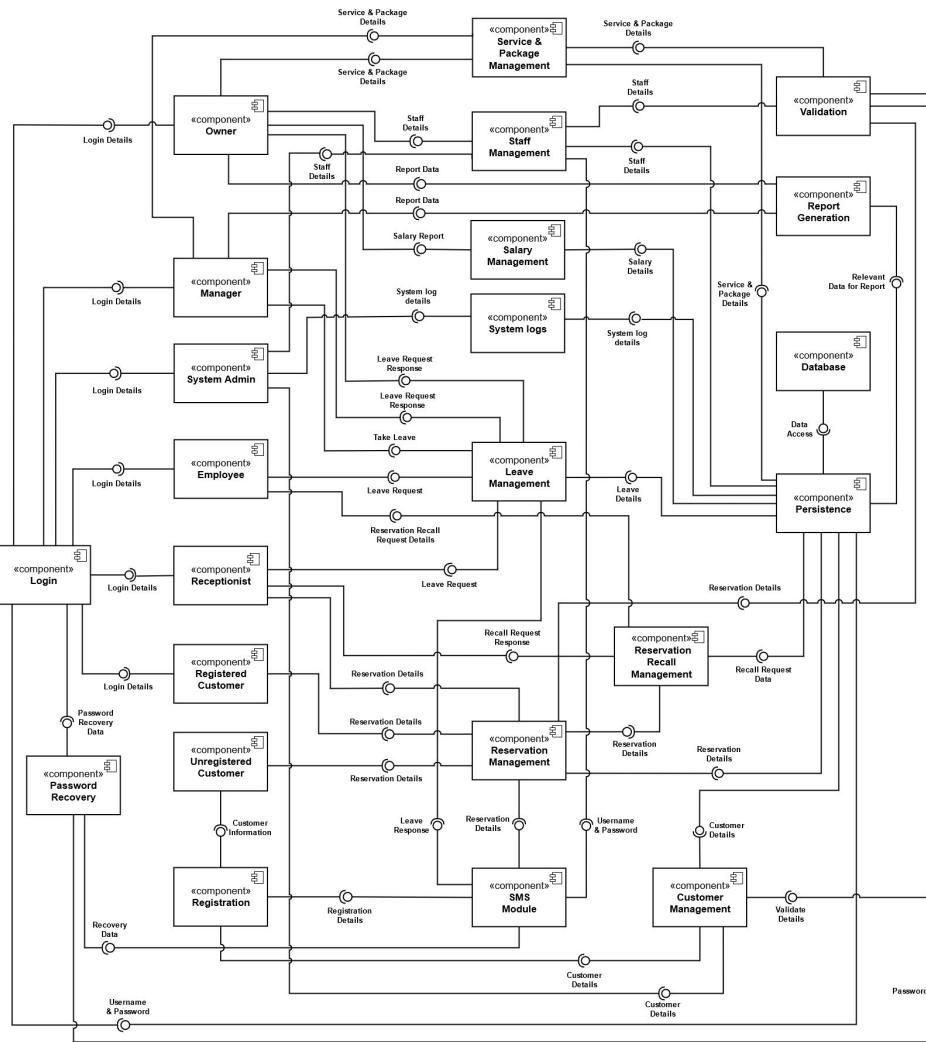
- Exception handling for faults occurred by unexpected behaviours.
- Maintain system logs.

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High Level System Architecture



Component Diagram





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Feasibility Study

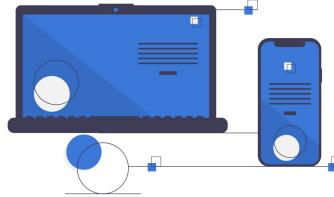
- Technical Feasibility
- Economic Feasibility
- Operational Feasibility
- Scheduling Feasibility
- Legal and Ethical Feasibility

Technical Feasibility



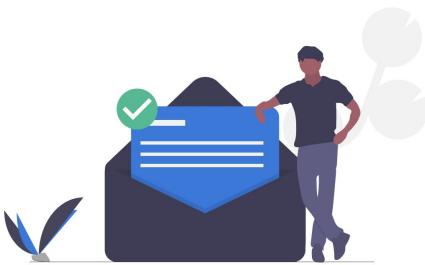
Technologies used for Front-end, Back-end and Database are well suited for the system design and have community support.

A separate SMS API will be used for the required SMS facilities.



Required hardware components for the development are provided by the developers.

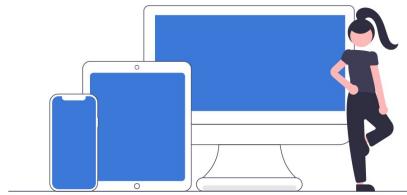
Economic Feasibility



The cost of the SMS API is considerably low and affordable

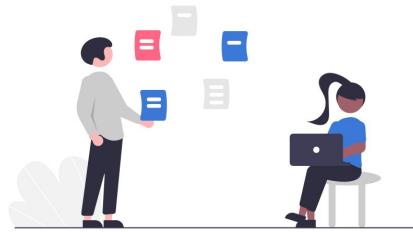


All software applications and tools are free and open-source



No additional cost for the hardware components

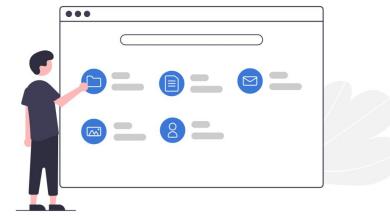
Operational Feasibility



Users expected to have a basic knowledge required to operate computers with basic English knowledge



To access the system users only need a device with a browser with an Internet connection



Provided subsystems are targeted to fulfill the requirements and solve the issues identified

Schedule Feasibility

Waterfall methodology will be followed for development process



Requirement gathering phase is already completed

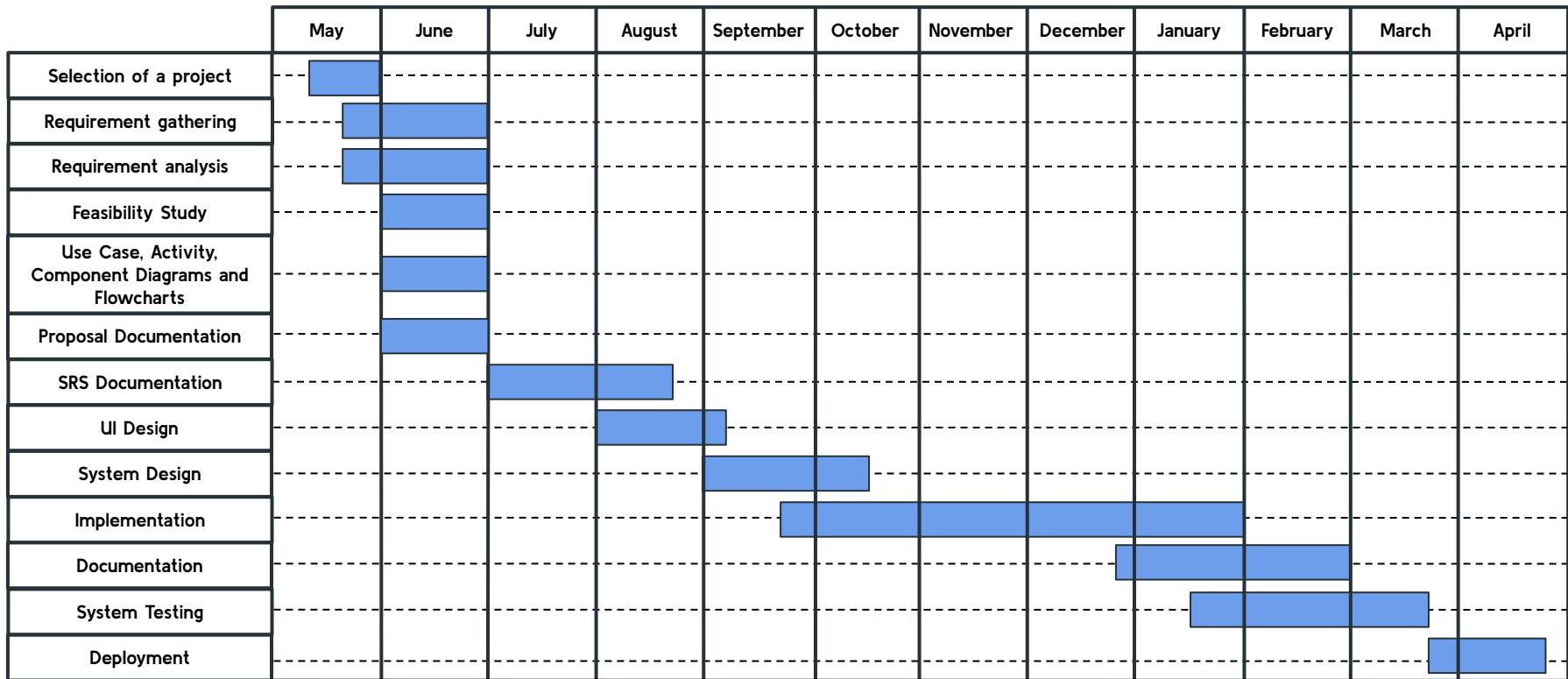


The development of the system should completed within 9 months left.



The available time duration is adequate for the for the development team of 4 members.

Gantt Chart



Legal and Ethical Feasibility

Customers' name and contact number will be collected for verification and communication purposes only.



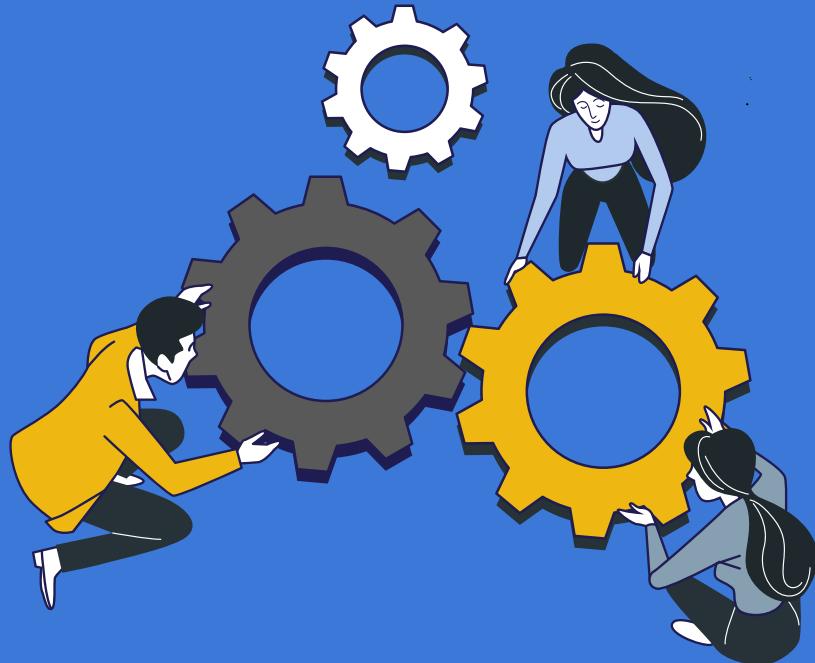
Staff members' name, contact number, NIC number, address and bank account number will be collected for pre-defined purposes.



If any external code fragments used they will be acknowledged and give credits to its rightful owner



The system is guaranteed that the data protection act of 2021 according to the LDD is not violated



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Technologies to be used



Front end



Back end



Database



Version Controlling



Collaboration tools



07

Workload Distribution





Ruwanthi Munasinghe (Employee, Admin)

- User Login module
- Profile views
- System Logs
- Password recovery module
- Employee dashboard
- Admin dashboard



Devin Dissanayake (Customer, Receptionist)

- Landing page
- Customer registration module
- Reservation management module
- Waiting list management
- Reservation recall handling process
- Receptionist dashboard



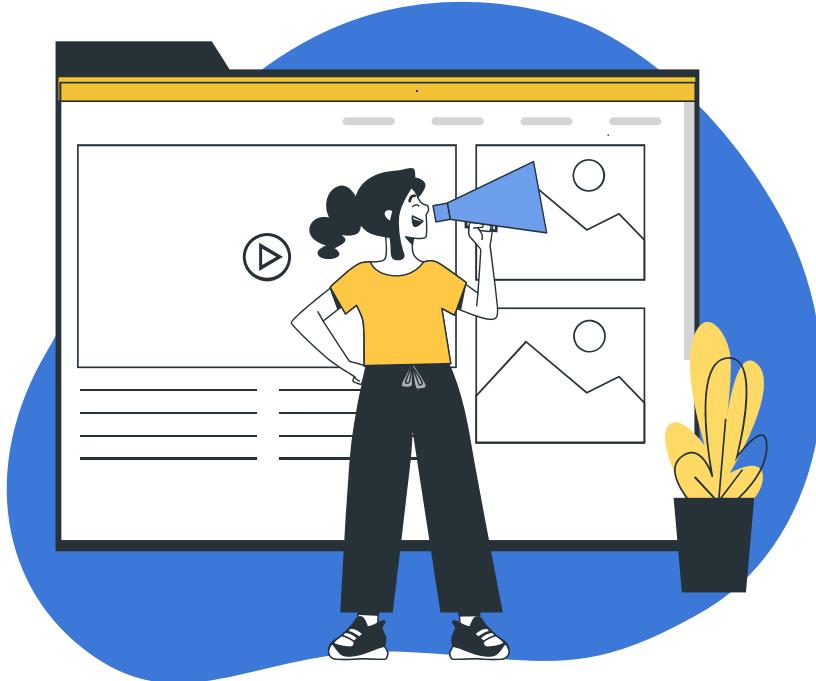
Sanjana Rajapaksha (Manager)

- Service and Package management module
- Report generation module
- Leave management module
- Manager dashboard



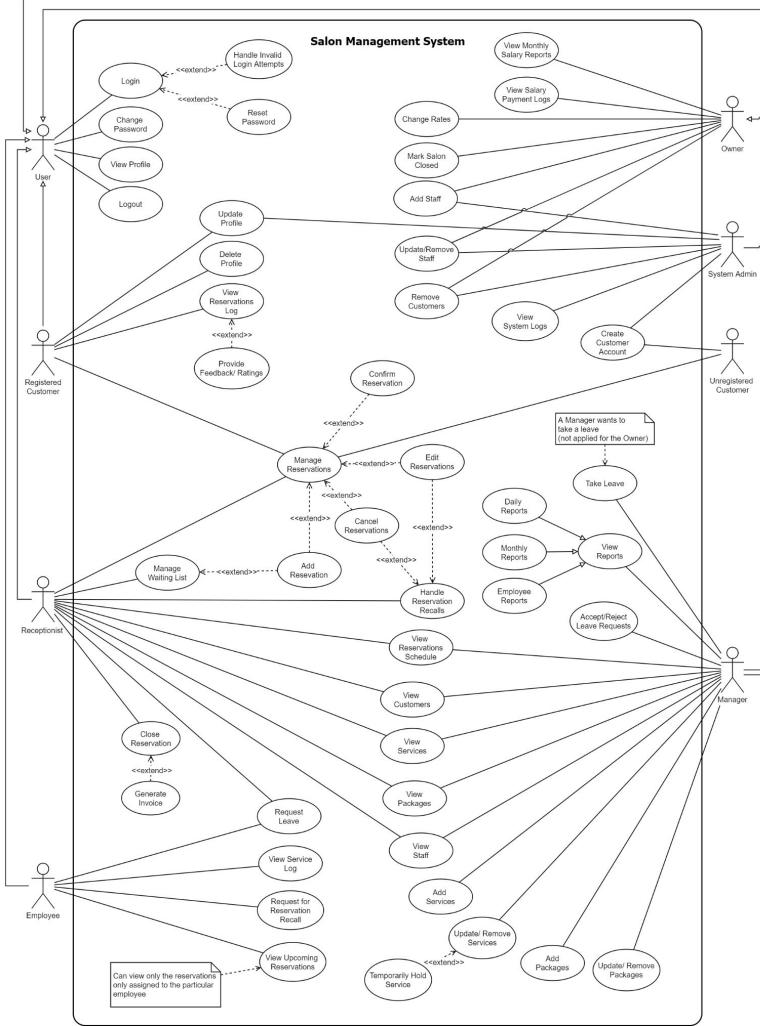
Ravindu Madhubhashana (Owner)

- Staff management module
- Salary management module
- Salon closing process
- Owner dashboard
- SMS module

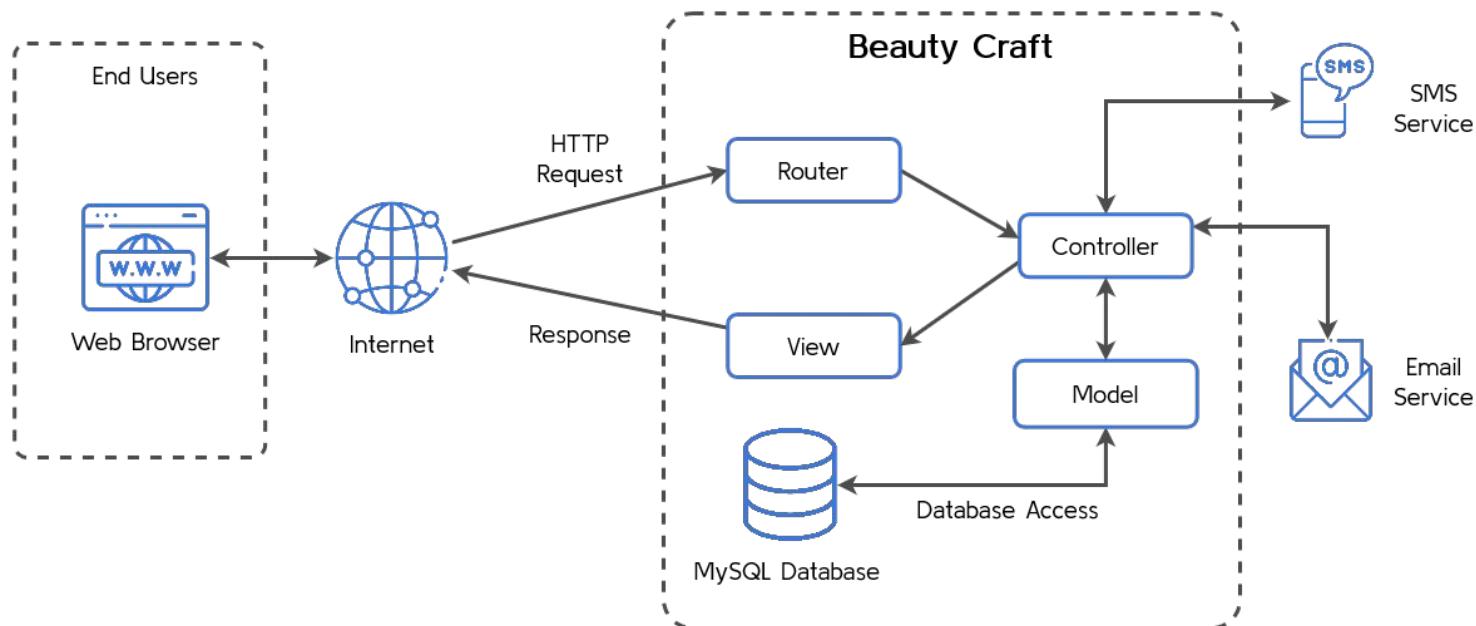


Thank You!

Use Case Diagram



High Level System Architecture



<http://publications.ud.ac.ae/index.php/jrems/article/view/566>

<https://www.cashmatters.org/blog/asia-over-75-e-commerce-transactions-are-paid-cash-upon-delivery-g4s-2018/>



Quality Attributes

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