# CAR WASH STATION

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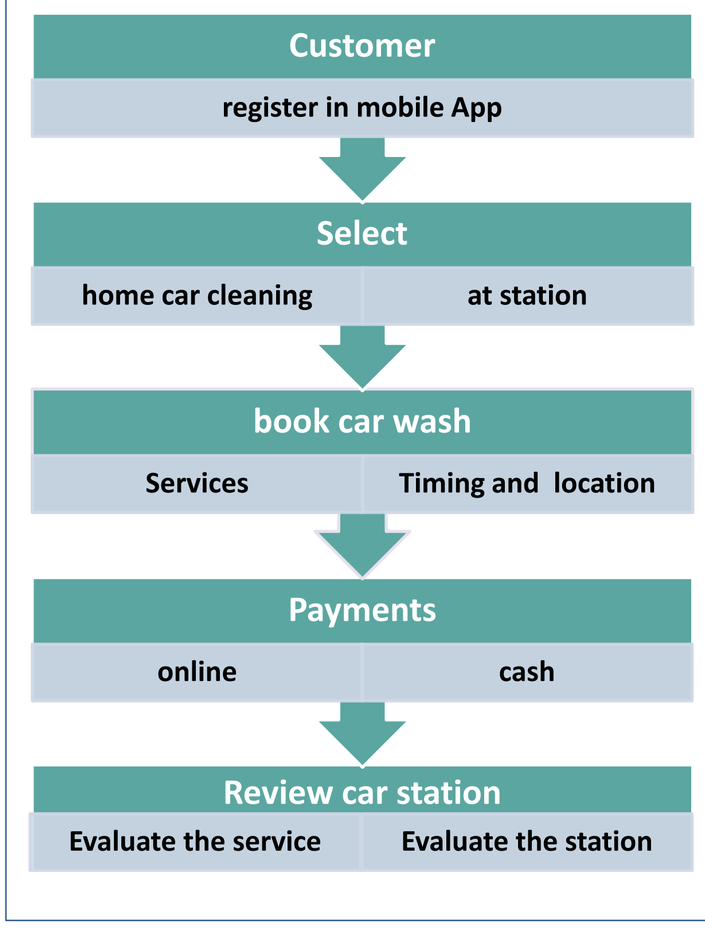
## Abstract

Nowadays, mobile and web applications are the best way to reach customers. Using applications to perform daily tasks is now prevalent. So, the developers always try to present the best app to make your life more comfortable. So, we thought to provide an application that would make it easier for customers to request a car wash service or book an appointment before going to the car wash station or provider, evaluate the service provided, and many advantages. We will use a flutter framework to program our application to ensure access to the largest segment of customers, and the control panel will be built using the Laravel framework. We first start with identify our aim, subject area, and argument, doing some literary analysis is the second step to read another research, journal, and conference to understand the area we are looking for after this identify the objective and the method must be the third step in the software system getting requirement, design the system, implement some code, testing, and training is the important thing for the objective, then we find a method for each objective.

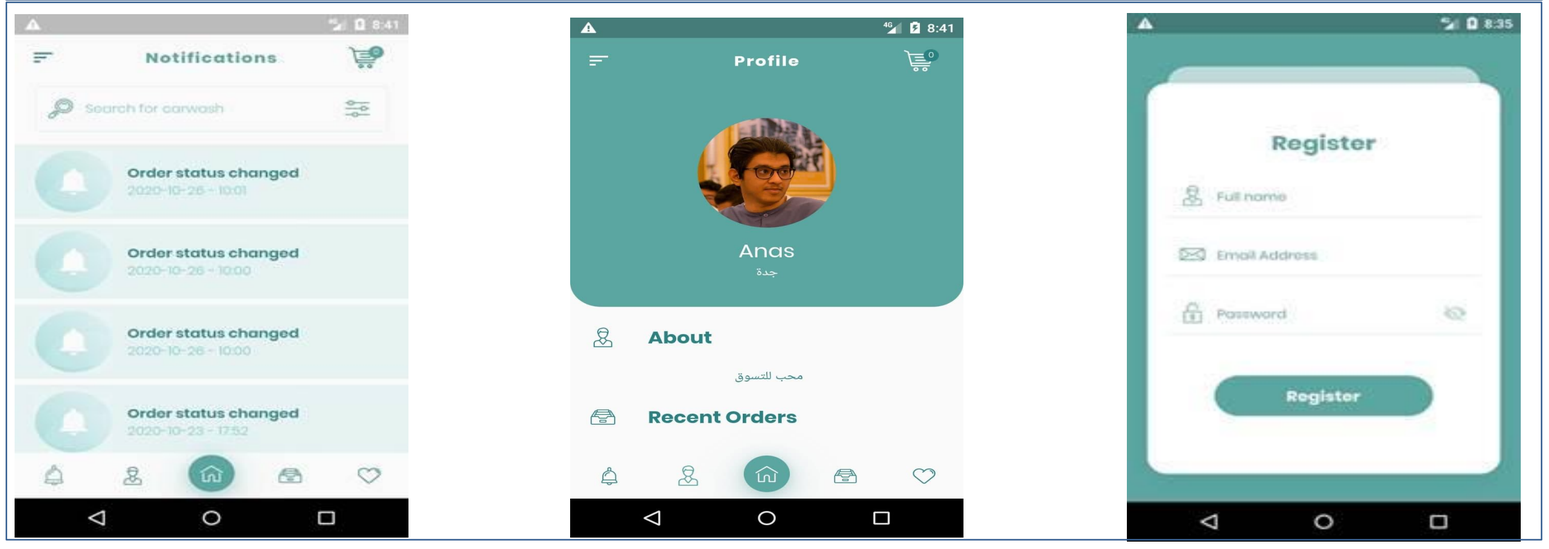
## Framework




## Initial logo

مغاسل

## Interface implementation



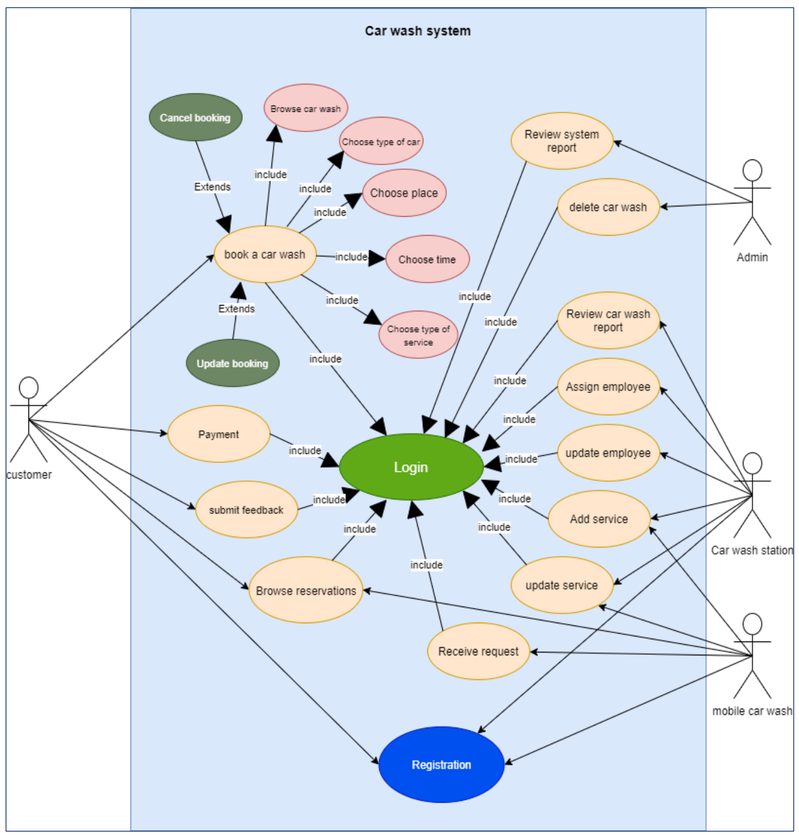

## Aim

An application that will allow the user (customer) to request service, to book the car washing service at a certain time of the day (along with other washing options). The car wash station will provide the real-time availability of the service and give the customer update on when he can reserve, and the nature of the service needed, and the mode of payment.

## Literature Review

The facility of getting car wash services from home is becoming more and more reality in today's world. Besides, Saudi Arabia weather is covered with dust a lot, so washing cars is a matter of concern to all car owners. In this project, we suggested an app to solve the hardness of getting a car wash service from home or at a car wash. This app aims to assist people to make their cars clean in one minute. Based on all these factors and data provided that will support the success of the application from the community's reliance on mobile applications to meet their daily needs and the market's need for change and to keep pace with this technical movement, the car wash field is in dire need of change and this is what our app will do.

## Use Cases




## Objective

The main objective of the car wash system is making car wash service full automated form the customer reservation to paying and reviewing the service

Sub-objectives are:

**Comfortable**
Provide a car wash service at home (according to the customer's choice of the right place for him)

**Multiplicity**
Provide several payment methods for the user, and the ability to pay remotely (as per customer's choice).

**Helpful**
Provide an opportunity for freelancer services for on-site car wash service.

**Satisfaction**
Knowing and reviewing the evaluation of customers in the car wash application in terms of services provided and offers "feedback".

## System Analysis

**Functional Requirement**

- Login ID: Any user who uses the application shall have a Login ID and Password.
- Appointment Booking: The app will allow the customer to book the most appropriate time and date to wash the car.
- Appointment availability: The application should allow the user if there is any available appointment to wash the car and the name of the car wash laundries.
- The information about car wash: The application should allow the user to view the car wash information and services.
- Service type: Request a car wash service, whether in a car wash place or another place.
- Payment method: The application should allow providing several payment methods for users.
- The user review: The application should allow the user to write a review and report on the service provided and the available offers.
- Independent work: The application should allow to enabling laundry workers to participate in free or independent work.

**Non-functional Requirement**

- User Identification: The application requires the user to identify themselves and register with the application.
- Modification: Any modification (insert, delete, and update) for the Database shall be synchronized and done only by the user in the ward.
- Rights of car wash employees: Car wash personnel must be able to view all information but will not be able to modify any information in it.
- Administrators' Rights: Administrators must be able to view and amend all information and add new services.
- Response Time: The system shall give responses in 1 second after checking the user information and the information of car wash laundries.
- User-interface: The user-interface screen shall respond within 5 seconds.
- Availability: The system shall be available all the time.

## Conclusions

Smartphones have been common in our life and popular in our daily demands. So, mobile applications are essential to delivering the functionalities to smartphone devices. We present a mobile application aimed to assist people who frequently need to keep and retain their cars in a clean and attractive status but the high traffic density, rarely suitable car washing service sites, time constraints imposed on the schedule of the consumer desiring car cleaning services, and other factors render the difficulty of taking car wash service or to drive to a location of a service site. Our application will provide the service of car washing for all users in the range of the service produced.

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