FACULTY OF COMPUTER SCIENCES

Advanced web development.

THEME: CarWash-Project.

MEMBERS:

Christian Novoa.

Diego Padilla.

Freddy Paez.

Fernando Noguera

NRC: 3701.

SUPERVISOR:

JORGE EDISON LASCANO.

FECHA:

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1. Problem

We go develop a web application that will enable people to have a scheduled appointment for our washing team to go to your house and wash your car. This action will help all people because they don't have to go to the centre washes and wait a lot of time and have contact with the car washers and other people. This alternative is really good because we with our system avoid the contagion of covid 19 and is the fastest and more safe for all. And it is worth mentioning that users who register and make use of our web application will be able to schedule an appointment and receive a car wash from the comfort of their homes. This is a great idea because you are encourage to all people use digital services, and you are helping to people that aré affected by the pandemic. And the most important is that you don't leave your house for clean your car, I think that is more fast and innovated for all us. I really recommend use this web application.

2. Overview

In the current situation, it is necessary to develop forms and services that avoid an agglomeration of people in the same place and offer it preferably at home, this with the aim of preventing infections and improving customer comfort, when a customer receives a rewarding service for him on behalf of the company, it is very likely that he will request the services of the same in the future. In the case of a car wash, the client is the one who must approach the premises to receive the service, but, as mentioned before, this can expose them to diseases and cause non-conformities.

3. Background

When a client requires a car wash, it is usually necessary to approach an establishment that offers the service. This means that the customer waits long as well as uncomfortable and that even in the current context it is dangerous. A local car wash works by teams dividing the tasks, which increases efficiency by managing to finish more jobs in less

time. The disadvantage is that due to the current situation, these establishments face a shortage of customers, so one way to solve it is through a car wash at home that encourages people's confidence and revives the business again. Our service tries to mitigate the discomforts or negative things of being in a carwash, and offer a great service to all the clients of our platform, without waiting times and with the assurance that your car is in the best hands.

Our web application will work as first step schedule appointment then our personal have to review the appointment and could accept or deny. If we accepted the appointment our washer personal have to go home of clients and wash your cars, finally the client pay us by the service. And a step very important for us is the satisfaction of the client.

User Story

Number: 1	User: Administrator

| Story Name: Auditory of system. ||

Business priority: High	Developing risk: Low
Estimated points:	Assigned iteration:

Description: I want to see all the scheduled appointments and a system audit (who enters the system, who makes an appointment schedule and net monthly, weekly and annual earnings).	
Validation: The system must show all details of the use of the system by clients	

Number: 2	User: Administrator

| Story Name: The system must be on the web. ||

Business priority: High	Developing risk: Low
Estimated points:	Assigned iteration:

Description: The system must book online, invoice online and notify me.	
Validation: The system must show the price of service.	

Number: 3	User: Administrator

| Story Name: Notify customer ||

Business priority: High	Developing risk: Low
Estimated points:	Assigned iteration:

Description:
I want to know the details of when the appointment is (time and day) and to notify the user of the value of the service.

Validation:
The system will show to the administrator the details of the appointments made.

Number: 4	User: Administrator

Story Name: See promotions, discounts.

Business priority: Low	Developing risk: Medium
Estimated points:	Assigned iteration: 2

Description:
I want the client to see promotions and discounts.

Validation:
The client could see some promotions and discounts on the main page of the system.

Number: 5	User: Administrator

Story Name: Different types of payment

Business priority: High	Developing risk: Medium
Estimated points:	Assigned iteration: 2

Description:
I want the system to allow different forms of payment (cash or credit card and it can also be credits from the laundry center).

Validation:
The client can pay the service by credit card or cash.

Number: 6	**User:** Administrator

Story Name: Validate that the appointments are unique for clients.	

Business priority: High	**Developing risk:** Medium
Estimated points:	**Assigned iteration: 2**

Description: I want the system to not allow requesting a washing appointment at the same time for more than a client.	
Validation: The system can't schedule two appointments at the same hour.	

Number: 7	**User:** Administrator.

Story Name: Fulfilled service.	

Business priority: High	**Developing risk:** Medium
Estimated points:	**Assigned iteration:**

Description: I want to mark the appointment as made or not fulfilled with the service.	
Validation: The system will allow to mark as complete or not the service.	

Number: 8	**User:** Customer.

Story Name: See appointment availability	

Business priority: High	**Developing risk:** High
Estimated points:	**Assigned iteration:**

Description:	
I want to be able to see the days and hours available to schedule an appointment	
Validation:	
Whether or not the client has scheduled appointments, they will have a message advising them of this.	

Number: 9	**User:** Administrator
Story Name: Clients login.	

Business priority: High	**Developing risk:** Medium
Estimated points:	**Assigned iteration: 2**

Description:
I want clients to log into the system to make an appointment.
Validation:
The client must log into the system to make an appointment, otherwise the client could register into the application.

Number: 10	**User:** Administrator
Story Name: Cancel an appointment	

Business priority: High	**Developing risk:** Medium
Estimated points:	**Assigned iteration:**

Description:
I want clients to be able to cancel an appointment in the first 3/4 of the time between the request and the appointment.

Validation:

The client may cancel their appointment as long as it is within the established time, otherwise the service will be charged (in case of paying by card).

Number: 11	**User:** Customer

Story Name: Make an appointment for washing

Business priority: High	**Developing risk:** Medium
Estimated points:	**Assigned iteration: 2**

Description:

I want to request an appointment for a wash car service.

Validation:

The client can cancel their request and cannot request appointments at the same time.

Number: 12	**User:** Customer

Story Name: View visit requests.

Business priority: Low	**Developing risk:** Low
Estimated points:	**Assigned iteration:**

Description:

I want to be able to view my appointments in the system

Validation:

If the client does not have requests, a message appears with the text "You have not made requests yet."

Number: 13	User: Customer

Story Name: Detail of the services

Business priority: High	Developing risk: Low
Estimated points:	Assigned iteration:

Description:

I want to see the types of services that the car wash has when making an appointment

Validation:

The client will be able to see the different types of services offered by the company when making the request

Number: 14	User: Customer

Story Name: See the details of your appointments.

Business priority: High	Developing risk: Medium
Estimated points:	Assigned iteration: 2

Description:
The system must allow me to view my appointment with details.

Validation:
The system must show the details of the appointment.

Number: 15	User: Administrator

Story Name: Keep an inventory of the business.

Business priority:	Developing risk:
High	Medium

Estimated points:	Assigned iteration: 2

Description:
The system must show the inventory of the business.

Validation:
The system must show all products or services.

Number: 16	User: Administrator

Story Name: Restrict client access to administrator tab.

Business priority:	Developing risk:
High	Medium

Estimated points:	Assigned iteration: 2

Description:
The system must deny access to the client to the administrator page.

Validation:
The system must deny all access of the clients to the administrator page.