19 DE OCTUBRE DE 2021

APLICACIÓN SISTEMAS GEOREFERENCIADOS

PROJECT DOCUMENTATION

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Content

Problematic

Noting that because of COVID 19, people in our days have begun to create a great distrust in what comes at the time of interacting with the largest number of people at some point, being so that people prefer to make any type of order at home, where any type of interaction of agglomeration of people is avoided. This has come to apply to many senses, including cleaning services, in this case cleaning their cars.

Being that at the time of wanting to take people their cars to a car wash, we find ourselves with the disadvantage of being always, in a place of great risk where we will have to wait up to 1 hour in a waiting room that becomes too crowded. Creating a distrust towards this type of car wash centers, creating that they have less influx of people creating economic losses to the investors of these.

Proposed Solution:

Therefore, it is proposed, the development of an integrated system of requests for car wash at home, in which people who already have a motorcycle adapted for this type of services have become more frequent. However, they place all their orders from voice to voice, without really expanding their market. Giving us as a solution a system directly for the washers and another for the users, where the washers will be able to reach a home more easily without getting lost. And likewise, users can request a washer depending on the service they require for their car.

Objectives:

General:

- Develop a system which allows washers to reach the destinations which the client requests from their home.

Specific:

- Support the economy of the people involved in these services.
- Increase the demand for car washes.
- Help car owners keep their vehicles always clean.
- Avoid agglomeration points in car wash centers.

Scope:

The initial scope is proposed for the northwestern part of the city of León Guanajuato, where there are several areas of surplus value, where the great increase of this type of services in the city has been noticed.

Limitations:

It has been considered the distrust that a car owner could have when allowing an "unknown" person to manipulate his vehicle.
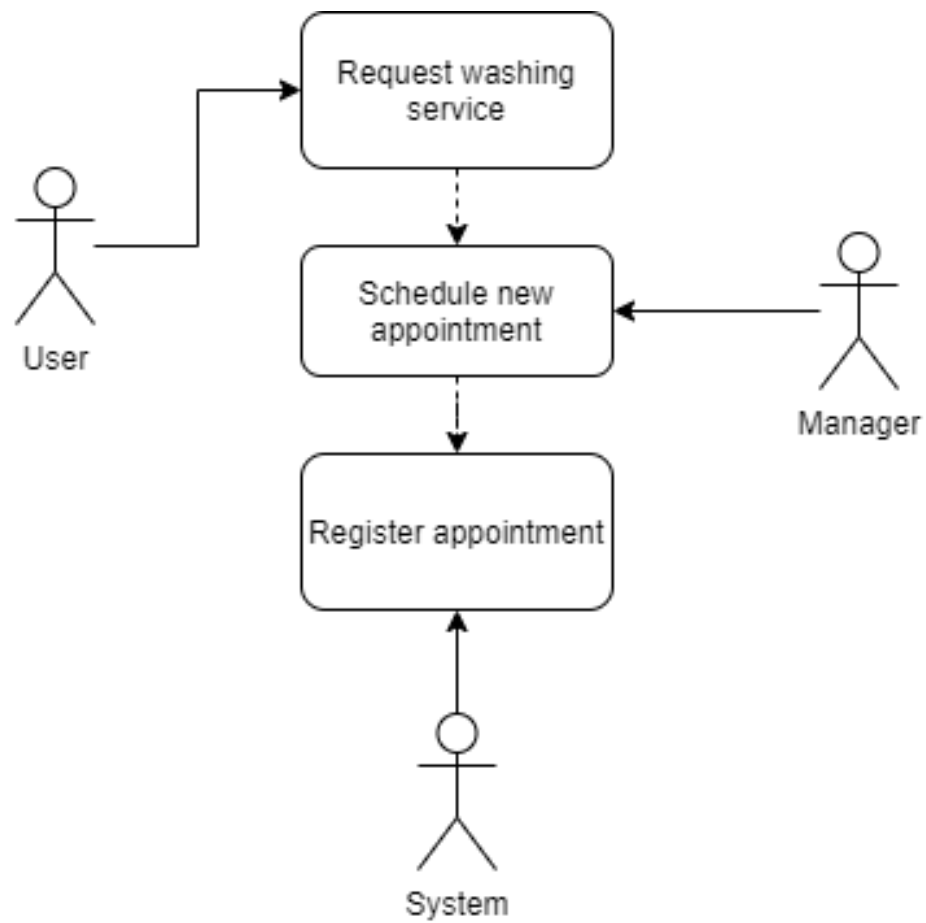
The application is totally tied to the small donation that people who offer this type of services can provide for the maintenance of the developed system.
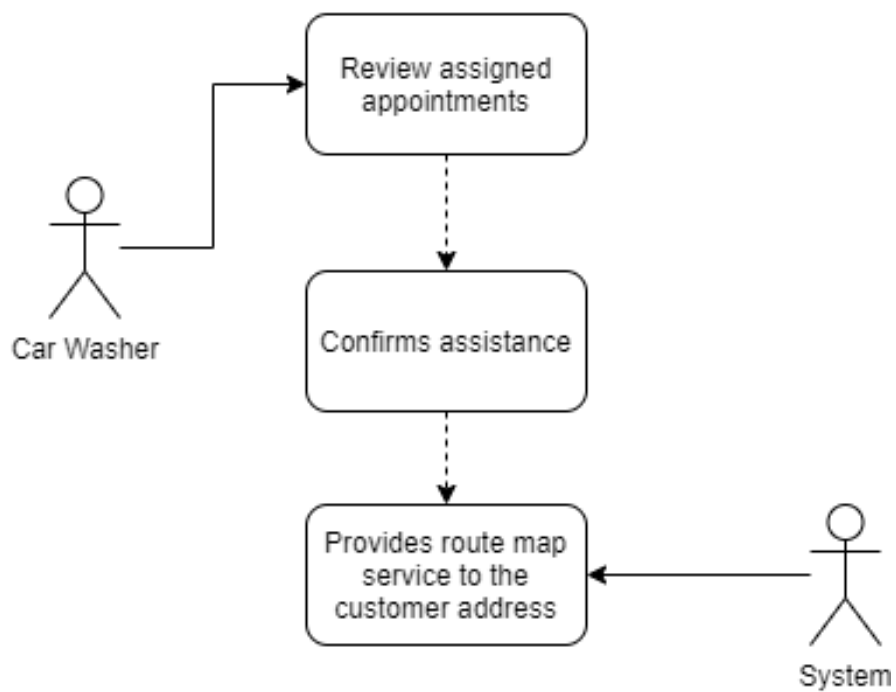
Schedule
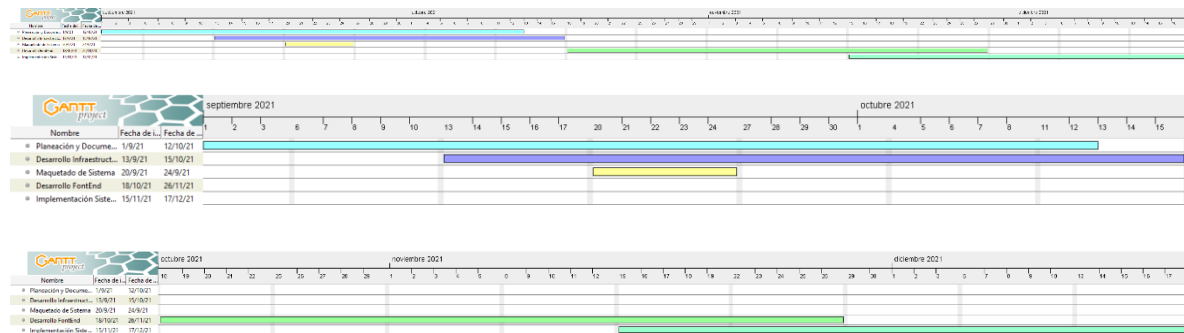
UML Diagrams
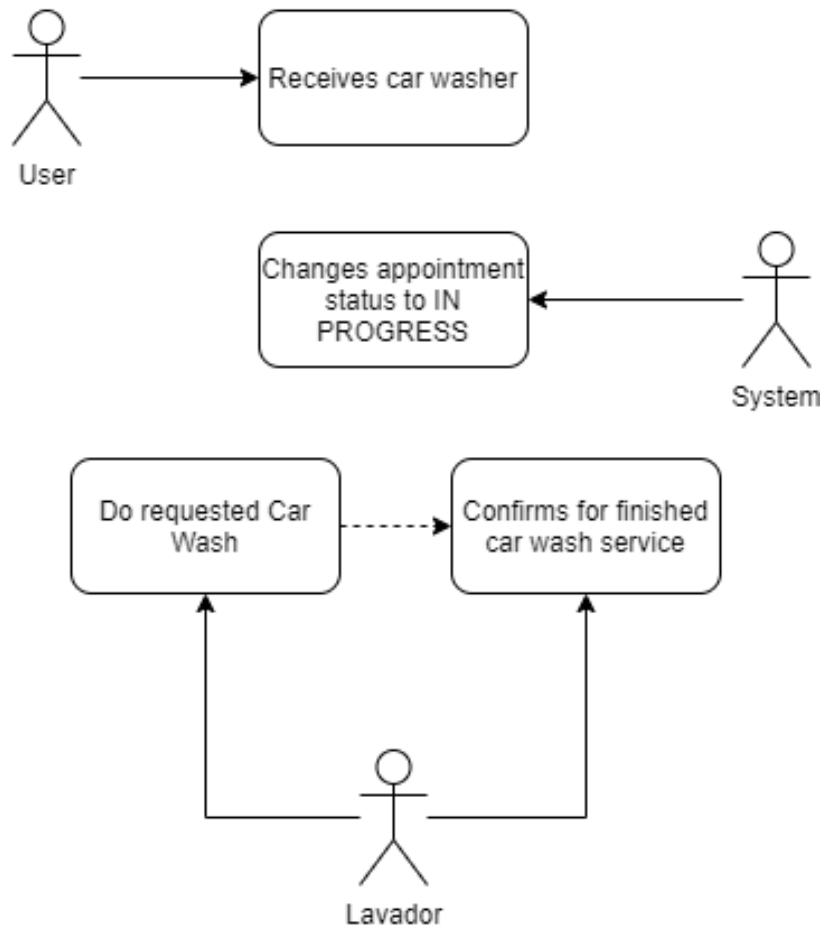
User request for a new car wash service

Manager Assigns appointments to car washers

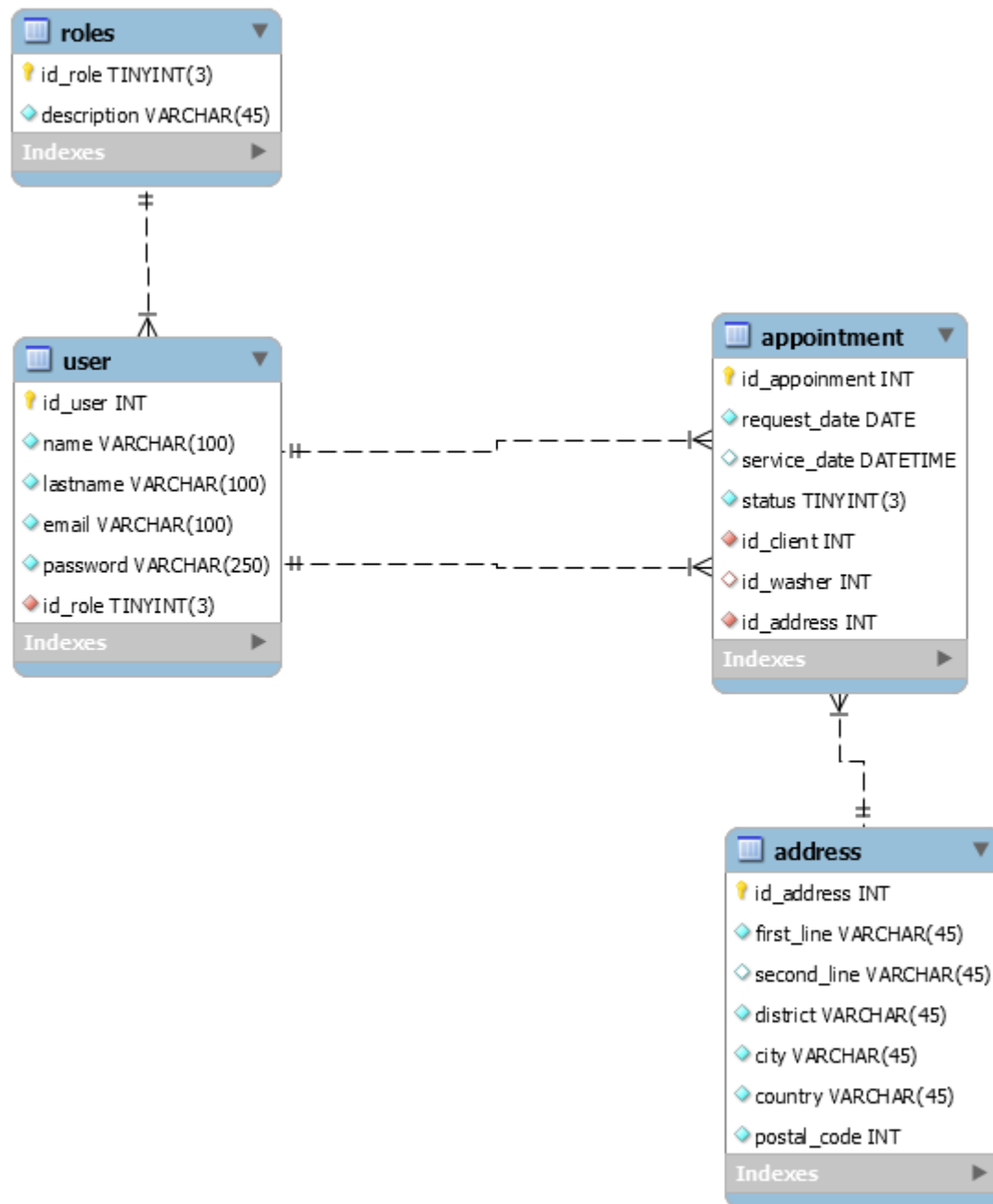## Car washer confirms assistance for assigned appointment
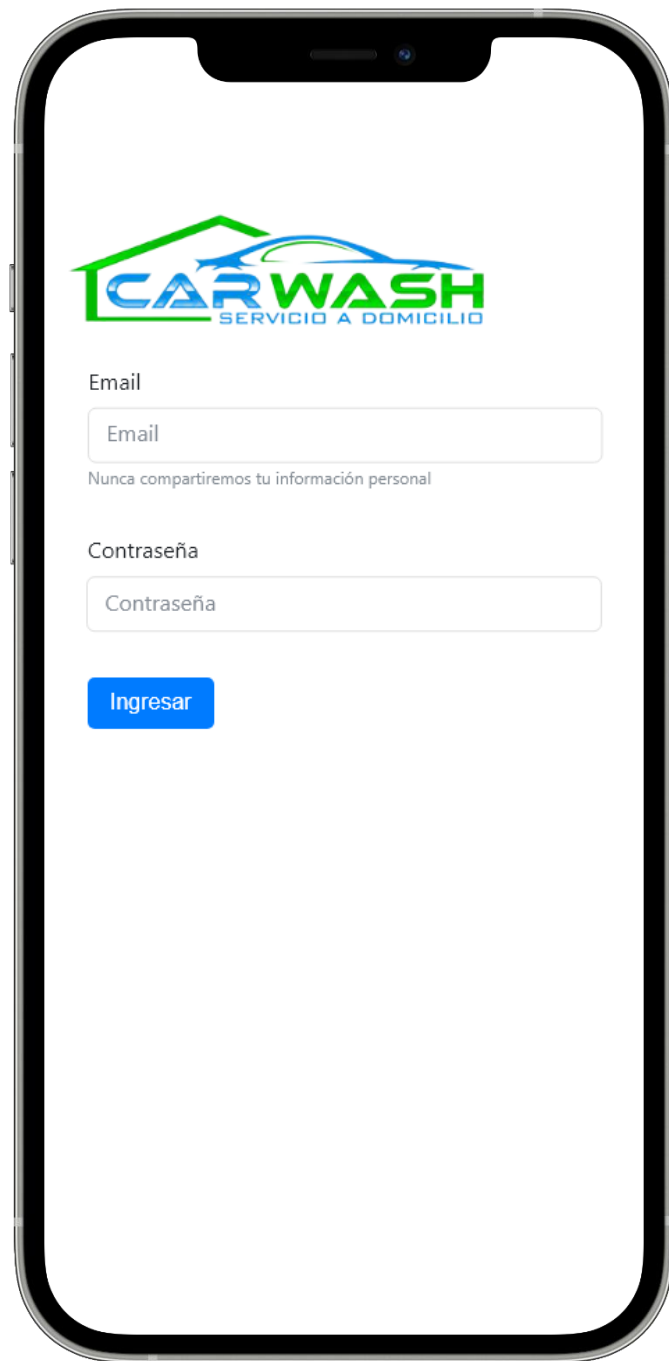
User receives car washer and finalize service

Database Diagrams

Relational Database

roles
- 🔑 id_role TINYINT(3)
- ◇ description VARCHAR(45)

Indexes ▶

user
- 🔑 id_user INT
- ◇ name VARCHAR(100)
- ◇ lastname VARCHAR(100)
- ◇ email VARCHAR(100)
- ◇ password VARCHAR(250)
- ◆ id_role TINYINT(3)

Indexes ▶

appointment
- 🔑 id_appoinment INT
- ◇ request_date DATE
- ◇ service_date DATETIME
- ◇ status TINYINT(3)
- ◆ id_client INT
- ◇ id_washer INT
- ◆ id_address INT

Indexes ▶

address
- 🔑 id_address INT
- ◇ first_line VARCHAR(45)
- ◇ second_line VARCHAR(45)
- ◇ district VARCHAR(45)
- ◇ city VARCHAR(45)
- ◇ country VARCHAR(45)
- ◇ postal_code INT

Indexes ▶

Mockups

Login

Signup

Email

Email

Nunca compartiremos tu información personal

Contraseña

Contraseña

Confirmación Contraseña

Repite tu contraseña

Acepto los Términos y Condiciones

Ingresar

Request Car Wash
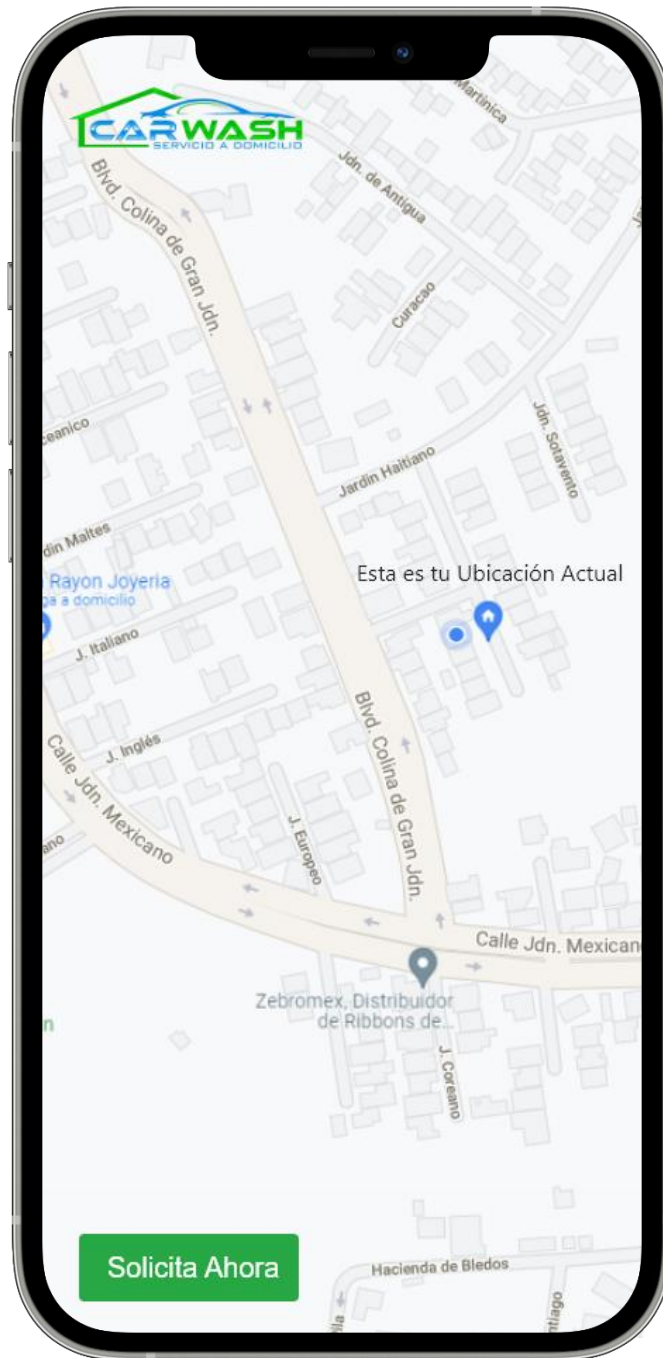
Wait for Car Washer
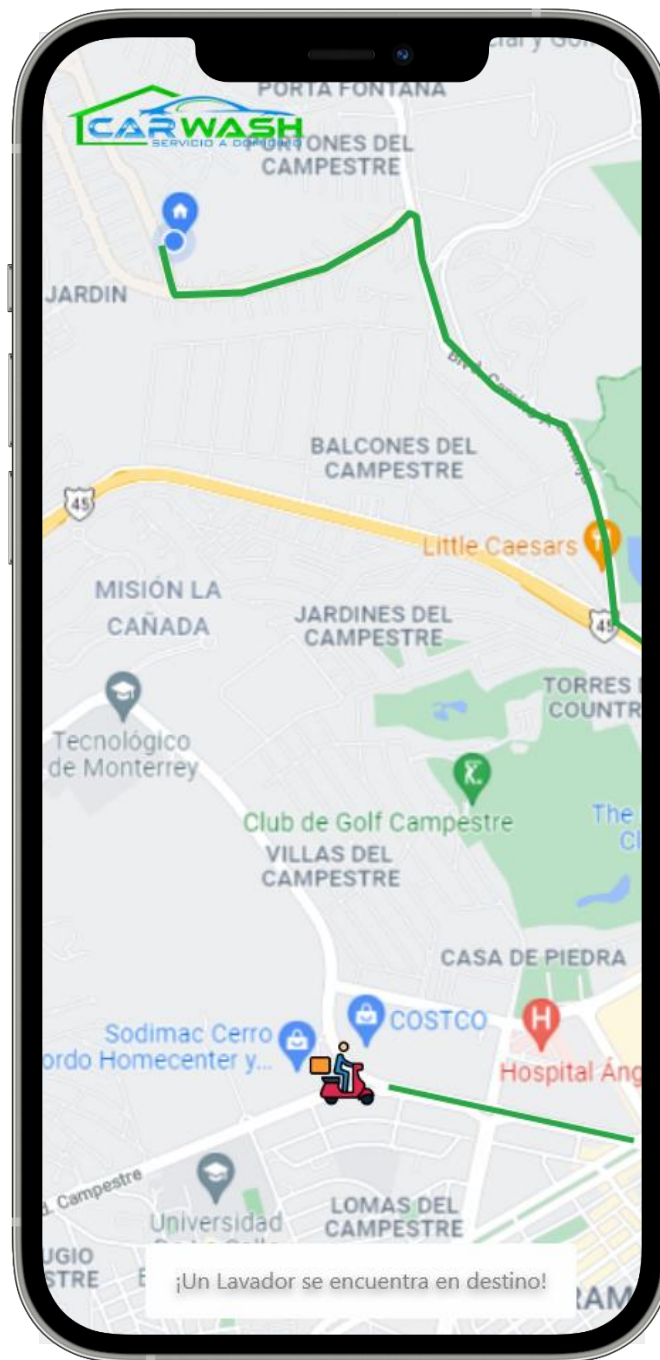
Car Washer services List

Luis Enrique Cuéllar Vivia

Calle: Avenida Universidad 360
Colonia: Lomas del Sol
Tiempo de Llegada: 5 minutos.

Servicio solicitado 10 minutos atrás.

Aceptar Lavado

Fabricio Zacarías Guzmán

Calle: Jardín de Barlovento 111
Colonia: Gran Jardín
Tiempo de Llegada: 15 minutos.

Servicio solicitado 2 minutos atrás.

Aceptar Lavado

Car Washer on Service