

## **Project Definition**

### **Members:**

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### **Problem**

We need a system that optimizes and implements new registration processes and the storage of information of new and frequent travelers for upcoming trips that allows us to provide the service of electronic invoices and cash or bank transfers to passengers, in addition to congratulate them on special dates. The system shows our user (driver) the trip record together with the accounting record generated in a daily and monthly summary.

In order to improve the service to passengers and facilitate the processes to the cab service.

### **Overview**

In the field of airport cab service, travelers require contact information about who will provide the service, in addition to optimize the process to schedule future runs, whether they are new customers, as well as being frequent customers. In order to provide a better service to travelers.

### **Background**

The electronic invoice is a digital and legal document that endorses the commercial operation between two parties, one that offers a product or service and the other that acquired it, in such a way that the cost of the purchased item is broken down with its respective taxes based on the legislation of each country.

The electronic invoice serves to validate and record a commercial transaction; in addition, to place such operation within a legal framework and that the taxpayer complies with its tax obligations.

In computing, or specifically in the context of a relational database, a record represents a single data object implicitly structured in a table.

A database is a tool for collecting and organizing information. Databases can store information about people, products, orders, or other things. Many databases start as a list in a spreadsheet or word processing program.

A QR code is an enhanced version of the classic barcode, which only represents a numeric code. It has a square shape and is composed of delimiters that allow the reader to know where the content of the code is. In some cases the outer part is decorated with squares similar to the code to give it a non-square shape, but this information is ignored by the reader. The QR codes will serve us, in this case, to provide the traveler with more information about the driver who will serve him, this through his cell phone, just by scanning the QR code.

It is a message or notification that has the function of reminding, warning about an upcoming event of great relevance since the human being can forget certain important and specific data. In our case we usually have several careers at the same time and we need an external help to avoid forgetting any important data and date.

A price list that provides knowledge to the traveler of the cost of a race depending on the location of departure and destination. It is important to mention that this is not imposed on the driver's benefits but was arranged by the company that manages the airport cab service with prices within reach of the travelers.

The main customers are usually tourists, travelers who first traveled by plane but when they want to move from the airport they need a safer means of transportation. This need is solved with the service of cabs that make runs to all of Ecuador. Usually travelers want to stay in recognized hotels that are mainly located in the city of Quito. Sometimes they ask for a tour to get to know the city.

### **Airport taxi scheduling**

A QR code was provided in which the driver's letter of introduction to the travelers will be stored. At the end of each trip the payment is recorded in the system either in cash or transfer with date and time. To schedule them the driver needs to insert the data (name, mobile number, email and optional date of birth) manually that will be stored in a database to optimize future trips and

also has the ability to schedule and cancel trips in advance, in addition to sending reminders to frequent travelers with outstanding balances. Once the payment is registered, an electronic invoice is generated and sent to the traveler's email address.

At the end of each day, the driver will be able to view a history of the trips made during the day and at the end of each month an economic report of the trips made will be displayed.