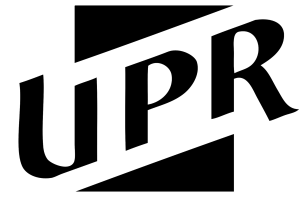




**University of Puerto Rico - Mayagüez
Electrical and Computer Engineering
Department**



ICOM 5016

Proyecto del semestre fase 2:

E-R Model

Working Site

Entrega: **5/May/2020.**

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Resources App

This is the development of an application that helps with the purchase, reservation, requests, and posts of resources called Resources App. This application has 3 types of accounts, Administrators, Users and Suppliers. Administrators is in charge of managing both the Users and Suppliers using the Resources App. Suppliers is the table in charge of containing all of the information of the suppliers that are supplying resources in the resources app. These suppliers are divided by categories which define what type of resources they will add on the Resources App. These categories then define which type of resource they will add to the Resources table. Given that information, the Resource table will then define each resources that are supplied by suppliers using the suppliers id.

The Users on the other hand can generate requests by adding a reference to a resource in the UserCart table. These requests are then labeled by their cart id which defines the number of requests the user has made in the app. The User also has access to define a payment method for the resources the user is going to purchase in the table Payment Method. This table keeps track on the information needed from the user to establish a payment method which maps the transaction of the user in the Bank table.

This leaves us with the Orders table which keeps track on all the possible orders that the users can generate with its information. The orders are categorized by order types which defines if the order is a request, a purchase or a reservation. These types defines how the Post of the order is going to behave. If its a request, the table assigns an order with a total price of 0 and a total quantity of 0. If it's a reservation, the table assigns the order with a total quantity but with a total price of 0. This in term updates the resource quantity of the table ensuring the reservation for the user. If its a purchase, the table assigns the order with a calculated total price and assigns the total quantity selected by the user.