

**Programación/Cliente Servidor Concurrente**

**Sede San Pedro**

**Proyecto de Investigación**

**Tema:**

**Avance de Proyecto Final**

**“ReservaTikit”**

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1. ***Objectivo Principal:***

Diseñar un sistema para la reservación y compra de tiquetes

Requerimientos:

* Reservar los asientos en los diferentes eventos
* Hacer el cobro de los espacios y generar un tiquete virtual
* Que la base de datos tenga un respaldo
* Procesamiento de órdenes de compra
* Envió de tiquetes virtuales por correo electrónico

1. **Justification**

This program will reduce the operational cost of a movie theater as they will require les staff so to attend the clients.

It will also improve the customer experience as they are able to book and pay for their movies effortless as they do not have to make long lines. In addition the customers will be able to book movies from the comfort of being at home and even book movies later that day.

1. **Login Screen (Stage2login):**

The Login screen also named as Stage2login is un charge of opening the first screen of the program which will include the fields to enter a valid email address and valid password.

In addition to this fields we will find three different buttons which will let us choose if we want to register, reset password or login. Each button will open and present a new window with dedicated information depending on the selection made

* **Reset Password:**

If the option of reset password is selected a new window will come up and will ask for the user (email) and we will presented with the option of getting a token, this token will be a four digit number that will be sent to the customer´s email and will be necessary in the section of enter password in order to enter the new password.

* **Create Account Screen:**

Over this section the customer will be presented with a field to enter his name, email address and possible password, this information will be saved and stored on the program and will be dedicated for that specific client. This will be used to compare the information that the customer entered over the login screen against the information saved on the data base to avoid duplicated users

1. **Main Screen (Stage3Home):**

This class will be in charge of redirect the customer to the special please required, can be considered as the menu of the program. This screen will present 3 different option on screen as buttons which are labeled as:

1. Choose Movie
2. Pay Ticket.
3. Logout.

Depending on the selection maid by the customer a different section will display next.

1. **Movie Selection Screen (Stage4Movie):**

On this screen you will be able to select from a list of movies that are being presented in this case there will be a total of 6 movies displayed. On this screen the customer will be able to click on the movie that they´ll like to watch and on the bottom of the screen will be a small dropdown menu that will include the available shows and the corresponding times.

Once all selections have been the option to continue will be pressed and it will bring the Seat Selection Screen.

1. **Seat Selection Screen (Stage5Seat):**

On our seat selection screen, the customers will be able to pick as many seats as the want, a layout of the theater will be presented with the screen at the bottom of the screen and the seat looking forward, by default some of the seats will be randomly occupied once the customer access this screen (this is to simulate real life scenarios of movie booking).

Once the seats have been selected the customer can proceed to pay the tickets or cancel the process.

1. **Payment Method Screen:**

On this screen you would be able see the select your payment method. The options would be the following ones:

Credit or Debit cards: the main credit card venues such as MasterCard, Visa, American Express among others.

Third Party Payment: This method will be the ones such as PayPal, GoogleMoney ect. Other third party methods could also be added.

Others: There are also options such as promotional vouchers and gift cards.

1. **Class Diagram:**

