

CS 458 Mobile App Development

Theatre Booking System

Problem Statement

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General Information

The theatre “Los Portales” requested the development of a web booking system to modernize their business practices, so they can start to sell tickets for their plays online. The system has been running for several months, but the owner has received suggestions from his clients that they would rather have an application for their mobile devices, as they do not feel comfortable accessing and paying from a website.

Therefore, the owner has now requested the development of a mobile application for android devices, so the customers can get access to the same functionality from the website in an app they can download from the PlayStore.

A mobile application should solve the concerns of its clients, as the application can make use of the google play system to receive payment in a safe way.

Scope of Work

Sign-up

The customer must be able to sign-up/register in the application. Basically, the same function that the website has for registering new users should be accessible in the app. After registering into the system, the customer should receive an e-mail to confirm their account before being able to log into the system.

Log-in and Log-out

The customer with a confirmed account, regardless of if they registered from Los Portales website or the app, should be able to sign into the system to get access to the registered user only functions in the application like the seating plan, shopping cart and the ability to checkout tickets they have added to their cart.

Browse upcoming shows

The customer, regardless of if they are a logged user or a guest, should be able to browse the content that the Los Portales Theatre has to offer. In the main section of the app, they can see all the upcoming plays, and can get access to the seating plan from them if they are logged users. If not, they should be redirected to the log-in section.

Seating plan

The customer, if logged in, should be able to see the seating plan for the selected play. In the seating plan, the user can see the current available, reserved and sold seats. From there, they can select their desired choice of seats and add them into the shopping cart. The color of the seats in the seating plan depends on the status of the seat. Available seats are green, reserved seats are black and red is for sold seats.

Shopping cart

The shopping cart is where the customer can see their current selected seats and the total, they must pay to get their tickets. While a seat ticket is in the shopping cart, it is marked in the seating plan as “reserved”. A reserved ticket must be checked out within 10 minutes, as that is the timeframe for their reservation. If the ticket is not checked within its time limit, it will disappear from the shopping cart automatically and be available for other customers.

Checkout

The customer should be able to checkout and purchase the tickets within their shopping cart. For this, the customer will use google pay to pay for the amount required. After the checkout is completed, the customer must receive an email with their receipt and its tickets.

Orders

The customer should have access to all the transactions they have made through the website and the application. Here, in the order section, the customer can access the details of each one of their transactions and reprint their tickets if necessary.