**Description**

This software represents a system where Hotel Guests can purchase tickets for events. The Guests will be able to search for events based on when they occur, and be able to reserve tickets depending on if there are spots available. In addition, Guests should be able to access events they have reserved and cancel if desired. A Hotel Clerk can do the same on behalf of a Guest. An Event Manager can add events into the system.

**Statement of Work**

The software should be able to take user input in the form of text for guest login (room number & PIN), or employee login (Employee username & Password). It should also allow users to enter dates (desired as a date picker, backup as a text) while searching for events. It should be able to show details of an event that is selected and allow users to input numerical data for how many seats they desire to reserve. Users should be able to change their password/PIN by putting in old and new password and the system checks it. Event Managers should be able to add events by inputting the name, date, time, location, maximum seating, and the price per ticket.

The software will store event information (ID, name, date, time, location, max seats [calculates available seats], price, who added it, and whether or not it is active); room information (ID and the associated PIN); guest information (ID, name, phone, email, and if they are an active guest); employee information (ID, name, address, phone, email, username, passwordHash, and if they are active); and the roles for the employees (ID, title, and description).

The software will display a list of events based on date (if none supplied it uses the current date), or a specific event’s details. It should also be able to display a user’s account information. Clerks should be able to access a list of active rooms and get the details of the room selected.

**Users**

Guest – Hotel Guest, purchases event tickets

Clerk – Hotel Clerk, works on behalf of Guest

Manager – Event Manager, adds events to system

General – No one logged into system, general use

**Use Cases**

General

* Log in
* See list of upcoming events
* See details of selected event
* ~~Search for events by date~~

Guest

* Log out
* Change PIN
* Same cases as General (Sans Log in)
* Purchase ticket for selected event
* See events already reserved
  + Cancel events selected

Clerk

* Log out
* Same cases as General (Sans Log in)
* See list of rooms
* Access room details
  + What events associated with that room
* Purchase ticket on behalf of Guest
* Cancel event on behalf of Guest

Manager

* Log out
* Same cases as General (Sans Log in)
* Add event to system
* Modify event in system

**User Stories**

As a General User logging in, I need to input my Room Number & PIN / Username & Password

As a General User finding events, I need to see a list of upcoming events

As a General User finding events, I need to search for events by date

As a General User finding events, I need access event details on a selected event

As a Guest leaving the system, I need to be able to log out

As a Guest managing my account, I need to be able to change my password

As a Guest browsing events, I need to be able to purchase tickets for a selected event

As a Guest reviewing my account, I need to be able to access a list of events I am registered for

As a Guest reviewing my account, I need to be able to cancel seats for a specific event

As a Clerk leaving the system, I need to be able to log out

As a Clerk managing rooms, I need to be able to access a list of active rooms

As a Clerk managing rooms, I need to be able to see details of a selected room

As a Clerk managing rooms, I need to see the events associated with a selected room

As a Clerk assisting a Guest, I need to be able to purchase tickets for a selected event

As a Clerk assisting a Guest, I need to be able to cancel tickets for a selected event they are registered for

As a Manager leaving the system, I need to be able to log out

As a Manager managing events, I need to be able to add events into the system

As a Manager managing events, I need to be able to modify an event in the system