5COM1053 Computer Science Development Exercise

5COM1061 Information Technology Development Exercise

2019 MICE-OFF Prototype   
GP3 Client’s Sample Data & Scenarios

The following scenarios & sample data are provided for use in your GP3 demo. Data is based on data for the MICE Film Festival

* **Before** the demo, ensure that all sample data has been loaded into your application’s database and that you have taken the scenario into account.
* **During** the demo, you will be expected to demonstrate that your MICE meets the system requirements

**Client Priorities (in order of priority)  
Functional Requirements**

* The Festival Director needs to be able
* to maintain information about : cinemas, screens, films, members, performances
* maintain member information
* perform anything that is available to members
* Members need to be able to:
* make/cancel a booking
* amend a booking ONLY by cancelling the old and making a new booking
* attempt entry to a screen (input screen information, membership number, date)
* see the total cost of booking
* There is no need to provide membership registration for members. In this application, this function is performed by the Festival Director
* Member will want to view selected performance details by film title, screen , by cinema and by location
* Festival Director will want to view
* performance details
* bookings
* entry attempts
* seats available
* Screen entry system will need to use booking information to determine whether and entry is allowed or not
* When a performance is cancelled, the system should provide information about booking which have already been made so members can be informed
* If a membership lapses because a member has not renewed or is cancelled, no further bookings for that member should be allowed.

**Non-Functional Requirements**

* Your system should ensure that errors are notified and/or- prevented.
* the GUI should allow for good workflow enabling users to perform operations without a detailed knowledge of internal storage details, or by having to search long lists of entries . When operational, the number of members and booking will be large so searching long lists visually is not desirable
* MICE must ensure the security of the system. The recommendation is a login system with different facilities available depending on whether the user is the director or a member (but this is low priority)

The data provided below DOES NOT ALWAYS CONFORM to the requirements or constraints either of a DB or of CodeIgniter. You are responsible for the appropriate design of DB tables

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| --- | --- | --- | --- | --- | --- | --- |
| **Some Client Sample Data for Main Tables** | | | |  |  | . |
|          All data given below should be stored in your application BEFORE the demonstration | | | | | | |
|          It has been provided by clients AND is NOT in the required RDB, or CodeIgniter format | | | | | | |
| Make sure you design your DB tables, and just use this data to populate them | | | | | | |
| **Cinema** | | | |  |  |  |
| **Cinema Number** | **Name** | **Location** | Address | **Manager** |  |  |
| 1 | Intu | Watford | 10, High Str | Andy Smith |  |  |
| 2 | Phoenix | Hitchin | 2, Swan Lane | Mary Jobs |  |  |
| 3 | Rialto | Stevenage | 6, London Rd | Tuhaj Bey |  |  |
| 4 | Intimate | Watford | 3, Broad Ave | Marek Huk |  |  |
|  | |  |  |  |  |  |
| **Member** | | | |  |  |  |
| **Member Number** | **Title\*\*\*** | **Name** | **Joined** | **Status** |  |  |
| 1111 | Ms | Helen Miranda | 21/12/2017 | Active |  |  |
| 1234 | Mr | Jose Alves | 27/12/2017 | Active |  |  |
| 1333 | Dr | Vito Gelato | 06/01/2018 | Lapsed |  |  |
| 1344 | Dr | Guy Redmond | 09/02/2018 | Active |  |  |
| 1444 | Ms | Maria Partou | 11/03/2018 | Active |  |  |
| 2111 | Ms | Lindsay White | 16/03/2018 | Cancelled |  |  |
| 2121 | Mr | David Wilkinson | 18/03/2018 | Active |  |  |
| 3333 | Ms | Olenka Sama | 12/12/2018 | Active |  |  |
|  |  | | |  |  |  |
| **Screen** | | | |  |  |  |
| **Cinema** | **Screen Number** | **Seats** | **Seat Price £** |  |  |  |
| Intu | 1 | 30 | 5.50 |  |  |  |
| Intu | 2 | 40 | 4.50 |  |  |  |
| Intu | 3 | 50 | 3.50 |  |  |  |
| Phoenix | 1 | 25 | 6.00 |  |  |  |
| Rialto | 1 | 46 | 4.00 |  |  |  |
| Rialto | 2 | 66 | 3.00 |  |  |  |
| Intimate | 1 | 6 | 8.00 |  |  |  |
|  |  | | |  |  |  |
| **Film** | | | |  |  |  |
| **Film No** | **Released** | **Title** | **Director** |  |  |  |
| 1 | 1941 | The Maltese Falcon | John Houston |  |  |  |
| 2 | 1940 | Rebecca | Alfred Hitchcock |  |  |  |
| 3 | 1944 | House of Dracula | Eric Kenton |  |  |  |
| 4 | 1943 | Jane Eyre | Robert Stevenson |  |  |  |
| 5 | 1942 | Casablanca | Michael Curtiz |  |  |  |
| 6 | 1949 | The Third Man | Carol Reed |  |  |  |
| 7 | 1945 | Brief Encounter | David Lean |  |  |  |
| 8 | 1948 | Key Largo | John Houston |  |  |  |
| 9 | 1946 | Notorious | Alfred Hitchcock |  |  |  |
| 10 | 1948 | Rope | Alfred Hitchcock |  |  |  |
|  |  |  |  |  |  |  |
| **Performance** | |  |  |  |  |  |
| **Performce No** | **Cinema** | **Screen** | **Film\*\*\*** | **Date** | **Time** | **Remaining seats** |
| 1 | Intu | 1 | African Queen | 20th June 2019 | 19.00 | 30 |
| 2 | Intu | 2 | Rebecca | 20th June 2019 | 19.00 | 29 |
| 3 | Intu | 3 | Key Largo | 20th June 2019 | 19.00 | 45 |
| 4 | Intu | 1 | African Queen | 21st June 2019 | 19.00 | 30 |
| 5 | Rialto | 1 | Rebecca | 21st June 2019 | 19.00 | 46 |
| 6 | Intu | 1 | African Queen | 24th June 2019 | 19.00 | 30 |
| 7 | Rialto | 2 | Spellbound | 20th June 2019 | 19.30 | 66 |
| 8 | Rialto | 2 | Rope | 22nd June 2019 | 19.30 | 66 |
| 9 | Phoenix | 1 | Casablanca | 20th June 2019 | 19.30 | 25 |
| 10 | Intimate | 1 | Brief Encounter | 21st June 2019 | 20.00 | 4 |
| 11 | Intimate | 1 | Brief Encounter | 23rd June 2019 | 19.30 | 6 |
| 12 | Rialto | 2 | The Maltese Falcon | 21st June 2019 | 19.30 | 61 |
| 13 | Intimate | 1 | African Queen | 26th June 2019 | 19.00 | 6 |
| 14 | Intu | 2 | Notorious | 23rd June 2019 | 19.00 | 40 |
| 15 | Intu | 3 | Rope | 22nd June 2019 | 19.00 | 50 |
|  |  |  |  |  |  |  |
| **Booking (incomplete & containing redundancy)** | | | |  |  |  |
| **Booking Number** | **Membership No** | **Film** | **Performance** | Date | **No of seats** |  |
| 1 | 1234 | Rebecca | 2 | 20th June 2019 | 4 |  |
| 2 | 1111 | Key Largo | 3 | 20th June 2019 | 5 |  |
| 3 | 1111 | The Maltese Falcon | 12 | 21st June 2019 | 5 |  |
| 4 | 1444 | Rebecca | 2 | 20th June 2019 | 7 |  |
| 5 | 3333 | Brief Encounter | 10 | 21st June 2019 | 2 |  |
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**Some Basic User Stories/Scenarios**

Most of the scenarios below are "happy day" scenarios. You should also consider error situations. You should assume that all of the data provided in Client Sample data has been loaded in to the DB

* Selly Lloyd (Festival Director) wants to add some new performances of a new film "Suspicion" directed by Hitchcock in 1941, to be shown
* in Phoenix screen 1 on 21st June at 17.00
* at new 30-seater Intu cinema Luton with one screen on 21st June at 19.20. Seats @ £3.00
* The following people want to make the following bookings
* Guy Redmond wants to book 4 seats for "Notorious" on screen NT2 on 23rd June
* Vito Gelato also wants to book 4 seats for "Notorious" on screen NT2 on 23rd June
* Lindsay White wants to book 2 seats for "Notorious" on screen NT2 on 23rd June
* Guy Redmond wants to book 8 seats for "Brief Encounter" on screen IN1 on 23rd June
* Maria Partou wants to book 6 seats for "African Queen" on screen IN1 on 26th June
* After Maria, Olenka Sama wants 2 seats at the same performance as Maria
* Vito Gelato has paid his membership fees, so Selly Lloyd changes his status to active. Vito then repeats his request shown above
* Olenka Sama wants to book 5 seats for a performance of "Rebecca" and wants to see all available performances
* Jose Alves wants to see all performances which start after 19.30
* Helen Miranda is interested in seeing a list of films released in 1948 and then all of their performnces
* David Wilkinson wants to see all performances taking place in Watford
* The following arrive at screens and want to enter
* Guy Redmond at screen NT2 on 23rd June
* Lindsay White at screen NT1 on 23rd June
* Guy Redmond arrives at IN1 on the 21st June
* Maria Partou arrives at screen IN1 on 26th June
* Selly Lloyd wants to cancel the performance of "Notorious" on screen NT1 on 23rd June - who se bookings will be affected ?