

**SD-210 Applied MVC Concepts II**

**Assignment #2**

*\*\*Note: This assignment is to be done individually; you are not allowed to work on this assignment with anyone. This assignment is due at May 3rd at 11:30am.*

The purpose of this application is to be a proof-of-concept for a hotel reservation system. In this first phase we will model the objects, seed the database and create LINQ queries to retrieve some data.

The application needs to store information about the rooms in the hotel which includes room number, type and daily rate ($). The type consists of name and description. The application also needs to store information about the customers which includes first name, last name, email and phone number. Finally, it needs to store information about the reservations including the reservation code, room that is being reserved, the customer that is making the reservation, the check-in and check-out dates and the total amount ($). All the information needs to be stored in the database.

After modeling the objects, seed the database with the following data:

**Room Types:**

|  |  |
| --- | --- |
| Type | Description |
| Single | A room assigned to one person. May have one or more beds. |
| Double | A room assigned to two people. May have one or more beds. |
| Queen | A room with a queen-sized bed. May be occupied by one or more people. |
| King | A room with a king-sized bed. May be occupied by one or more people. |
| Master suite | A parlour or living room connected to one or more bedrooms. |

**Rooms:**

|  |  |  |
| --- | --- | --- |
| Room Number | Room Type | Daily Rate |
| 1A | Single | $50 |
| 1B | Single | $50 |
| 2A | Double | $90 |
| 2B | Double | $90 |
| 3A | Queen | $130 |
| 3B | Queen | $130 |
| 3C | Queen | $130 |
| 4A | King | $200 |
| 4B | King | $200 |
| 5A | Master suite | $250 |

**Customers:**

|  |  |  |  |
| --- | --- | --- | --- |
| First Name | Last Name | Email | Phone |
| Alan | Foster | [alanfoster@assignment2.com](mailto:alanfoster@assignment2.com) | (204) – 111-1111 |
| Harley | Moore | [harleymoore@assignment2.com](mailto:harleymoore@assignment2.com) | (204) – 222-2222 |
| Kara | Rogers | [kararogers@assignment2.com](mailto:kararogers@assignment2.com) | (204) – 333-3333 |
| Lara | Mason | [laramason@assignment2.com](mailto:laramason@assignment2.com) | (204) – 444-4444 |
| Amber | Hunt | [amberhunt@assignment2.com](mailto:amberhunt@assignment2.com) | (204) – 555-5555 |

**Reservations**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Reservation Code | Room | Customer | Check-In | Check-Out | Total |
| PMJYW5WH2 | **1A** | Alan Foster | April 8, 2019 | April 12, 2019 | $250 |
| Y1SNW2YQ3 | **1B** | Harley Moore | April 15, 2019 | April 19, 2019 | $250 |
| ICKU0JMMN | **1A** | Alan Foster | April 22, 2019 | April 24, 2019 | $150 |
| EW4X1NWEU | **3A** | Kara Rogers | May 1, 2019 | May 10, 2019 | $1300 |
| 7XLLBVZYB | **4B** | Amber Hunter | May 6, 2019 | May 10, 2019 | $1000 |
| WD4EFAINV | **4B** | Lara Mason | May 13, 2019 | May 17, 2019 | $1000 |
| Y4Y97Q4WG | **1A** | Alan Foster | May 13, 2019 | May 15, 2019 | $150 |

After seeding the database write the following queries:

1 – A query that returns all the rooms available from May 9, 2019 to May 14, 2019. The query should return the room number, room type and total price (from May 9 to May 14).

2 – A query that returns all the current reservations including future ones. The query should return the reservation code, room number, room type, period that the room is/will be rented, total price, customer first name, customer last name and phone number.

3 – A query that returns all the amount of money made by each room. The query should return the room number, the room type and the amount of money. It shouldn’t consider future reservations.

A C# ASP.NET MVC application with Individual User Accounts should be used for this assignment. Creating pages to display the data is not a requirement.

**Submission Guidelines:**

The student should create a private repository on GitHub and submit the link to the instructor via private message on Slack.

**Failure to follow any of the instructions above will result in penalties or get a grade of 0.**