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URS DOCUMENT

hIMALAYAN hOTEL

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# Introduction

This is a document URS [User Requirement Specification] for Himalayan Hotel Management System.

# Scope of Project

This software application solution is very useful for long term run of hotel business. This application will fully help hotel to manage their employees and guest as well. Moreover because of the best data design it would be very useful for user to fetch all data efficiently and accurately.

# Functional Requirement

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| **ID** | **Name** | **Platform** | **MSCW** |
| FR-01 | A User can login | Both | **M** |
| FR-02 | A User can logout | Both | **M** |
| FR-03 | A Hotel owner can update Hotel information | Desktop | **C** |
| FR-04 | A Hotel owner can generate hotel reports | Desktop | **C** |
| FR-05 | A Manager can add Employee | Desktop | **M** |
| FR-06 | A Manager can update Employee | Desktop | **M** |
| FR-07 | A Manager can add Room | Desktop | **M** |
| FR-08 | An Employee can update Room | Desktop | **M** |
| FR-09 | An Employee can add Booking | Desktop | **M** |
| FR-10 | An Employee can update Booking | Desktop | **M** |
| FR-11 | A guest can create an account | Web | **M** |
| FR-12 | A guest can update account information | Web | **M** |
| FR-13 | A guest can view rooms | Web | **C** |
| FR-14 | A guest can book rooms | Web | **M** |
| FR-15 | A guest can check-in | Web/Desktop | **M** |
| FR-16 | A guest can check-out | Web/Desktop | **M** |

Note: Here user denotes all actors i.e.:

1. Hotel Owner
2. Manager
3. Employees
4. Guest

# Use Cases

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| **ID** | UC01- Log In. “**FR-01”** |
| **Actor** | User |
| **Pre-condition** | User must have login credentials |
| **Main success scenario** | 1. User fills in their personal email and password. 2. User presses the "Log in" button. 3. The system confirms the credentials and logs in the user. |
| **Extensions** | 3a. Actor has entered an incorrect password.   1. The system displays a pop-up message: "Incorrect login credentials." 2. Actor clicks "OK" on the message, causing the pop-up to close. 3. Actor enters their correct username and password. 4. iv. Actor continues again from 1. |
| **Assumptions** | The user knows their personal login credentials. |

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| **ID** | UC01- Log OUT. “**FR-02”** |
| **Actor** | User |
| **Pre-condition** | User must have been logged in. |
| **Main success scenario** | * 1. The actor clicks on the "Logout" button located in the navbar (web) or homepage (desktop application).   2. The actor is successfully logged out of the system. |
| **Extensions** | 2a. The actor is prompted to confirm the logout.   1. The system displays a confirmation dialog box with the message: "Are you sure you want to log out?" 2. The actor clicks on the "Yes" button to confirm. 3. The actor is successfully logged out of the system. |

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| **ID** | UC02- Update Hotel Information. **“FR-03”** |
| **Actor** | Hotel Owner |
| **Pre-condition** | User has role of Hotel Owner |
| **Main success scenario** | 1. The actor presses the "Edit Hotel Information" button. 2. The system displays the information page of the hotel with the pre-filled fields. 3. The actor changes the desired fields. 4. The actor presses the "Update" button. 5. The system displays a message indicating that the changes have been successfully saved. |
| **Extensions** | 5a) Actor fails to fill all fields.   1. The system displays a pop-up message: "PLEASE FILL IN ALL INFORMATION." 2. The actor acknowledges the message and fills in all the required fields. 3. The actor again continues from 2. |
| **Assumptions** | The user knows their personal login credentials. |

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| **ID** | UC03- Generate hotel reports. **“FR-04”** |
| **Actor** | Hotel Owner |
| **Pre-condition** | User is Hotel Owner |
| **Main success scenario** | 1. The actor clicks on the "Generate Report" button. 2. The system shows parameters for generating reports. 3. The actor fills in the parameters to generate the report, such as selecting a date range. 4. If the parameters are valid, the system generates a report based on the selected date range. 5. The actor opens the generated report. 6. The system displays the details of the report. |
| **Extensions** | 4a) If validation fails.   1. The system displays a message: "PLEASE FILL UP CORRECT DETAILS." 2. The actor acknowledges the message and provides the correct details for the parameters. 3. iii) The actor again continues from 3. |
| **Assumptions** | The user knows their personal login credentials. |

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| **ID** | UC04- Add Employee **“FR-05”** |
| **Actor** | Manager |
| **Pre-condition** | Manager is logged with manager account |
| **Main success scenario** | 1. The actor clicks on the "Employee" button. 2. The system shows the employee menu. 3. The actor fills in the employee information and confirms by clicking the "Add" button. 4. If the fields are valid, the system adds the employee information to the database. 5. The system displays the added employee. 6. The system generates an ID and password for the employee. |
| **Extensions** | 4a) Actor leaves one of the data fields empty.   1. The system displays a pop-up message: "PLEASE FILL IN ALL INFORMATION." 2. The actor acknowledges the message and fills in all the required fields. 3. The actor again continues from 3.   OR  4b) Actor entered invalid data in a field.   1. The system displays a pop-up message: "Invalid data." 2. The actor acknowledges the message and corrects the invalid field. 3. iii) The actor again continues from 3. |
| **Assumptions** | The user knows their personal login credentials. |

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| **ID** | UC05- Update Employee **“FR-06”** |
| **Actor** | Manager |
| **Pre-condition** | Manager is logged in and employee exists in database |
| **Main success scenario** | 1. The actor clicks on the "Employee" button. 2. The system shows the employee menu. 3. The actor searches for employees either from a table or using an ID on live textbox field. 4. The system auto-fills all fields with the old values of the employee. 5. The actor can change the desired fields and presses the "Update" button. 6. If the fields are valid, the system updates the employee's information in the database. 7. The system shows the updated information of the employee. |
| **Extensions** | 6a) Actor leaves one of the data fields empty.   1. The system displays a pop-up message: "PLEASE FILL IN ALL INFORMATION." 2. The actor acknowledges the message and fills in all the required fields. 3. The actor again continues from 5.   3a) If the entered ID does not exist   1. The system displays a pop-up message: "EMPLOYEE WITH THIS ID DOESN’T EXIST." |
| **Assumptions** | The user knows their personal login credentials. |

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| **ID** | UC06- Add Room **“FR-07”** |
| **Actor** | Manager |
| **Pre-condition** | Manager is logged in and room doesn’t exist in database |
| **Main success scenario** | 1. The actor clicks on the "Rooms" button. 2. The system shows the room fields. 3. The actor fills in all the room information and presses the "Add Room" button. 4. If the fields are valid, the system adds the room information to the database. 5. The system displays the added room. |
| **Extensions** | 4a) Actor leaves one of the data fields empty.   1. The system displays a pop-up message: "PLEASE FILL IN ALL INFORMATION." 2. The actor acknowledges the message and fills in all the required fields. 3. The actor again continues from 3. |
| **Assumptions** | The user knows their personal login credentials. |

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| **ID** | UC07- Update Room **“FR-08”** |
| **Actor** | Employee |
| **Pre-condition** | Employee should be logged in and room should be already existed in database. |
| **Main success scenario** | 1. The actor clicks on the "Rooms" button. 2. The system shows the room menu. 3. The actor searches for the room by its ID or selects it from a table. 4. The system loads all fields with data from the database. 5. The actor fills in the field(s) that need to be changed and presses the "Update" button. 6. If the fields are valid, the system updates the entered information in the database. 7. The system shows a success message. |
| **Extensions** | 6a) If the actor fills in invalid fields:  I) The system displays a pop-up message: "INVALID INFORMATION FILLED."  ii) The actor acknowledges the message and corrects the invalid fields.  iii) The again continues from 5.  3a) If the entered room doesn't exist  I) The system displays a pop-up message: "ROOM NOT FOUND." |
| **Assumptions** | The user knows their personal login credentials. |

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| **ID** | UC08- Add Booking **“FR-09”** |
| **Actor** | Employee |
| **Pre-condition** | Employee should be logged in |
| **Main success scenario** | 1. The actor clicks on the "Booking" button. 2. The system shows the booking menu. 3. The system shows the booking fields. 4. The actor fills in all the fields. 5. The actor clicks on the "Calculate Cost" button to get the total amount. 6. The actor clicks on the "Add Booking" button. 7. If the fields are valid, the system adds the booking to the database. 8. The system shows the booking status as "checked in." 9. The system displays a message indicating that the booking has been added. |
| **Extensions** | 7a) Actor leaves one of the data fields empty.   1. The system displays a pop-up message: "PLEASE FILL IN ALL INFORMATION." 2. The actor acknowledges the message and fills in all the required fields. 3. The actor again continues from 4.   or  7a) If the actor fills in invalid input.   1. The system displays a pop-up message: "INVALID INFORMATION FILLED." 2. The actor acknowledges the message and corrects the invalid fields. 3. iii) The actor again continues from 4. |
| **Assumptions** | The user knows their personal login credentials. |

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| **ID** | UC09- Update Booking **“FR-010”** |
| **Actor** | Employee |
| **Pre-condition** | Employee should be logged in and room should be already existed in database. |
| **Main success scenario** | 1. The actor clicks on the "Booking" button on the homepage. 2. The system shows the booking menu. 3. The actor searches for the booking by its ID or selects it from a table. 4. The system loads all booking fields with data from the database. 5. The actor fills in the field(s) that need to be changed and presses the "Update" button. 6. If the fields are valid, the system updates the entered information in the database for the same ID. 7. The system shows a success message. |
| **Extensions** | 6a) If the actor fills in invalid fields:   1. The system displays a pop-up message: "INVALID INFORMATION FILLED." 2. The actor acknowledges the message and corrects the invalid fields. 3. The actor again continues from 6.   3a) If entered booking doesn’t exist?   1. System pops up with a message: “BOOKING NOT FOUND” |
| **Assumptions** | The user knows their personal login credentials. |

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| **ID** | UC010- Register an account. “**FR-011”** |
| **Actor** | Guest |
| **Pre-condition** | Guest should not have register before. |
| **Main success scenario** | 1. The actor clicks on the "Log In" button on the navigation bar of the homepage. 2. The system shows the login page with a register option if the guest doesn't have an account. 3. The actor clicks on the "Register Account" option. 4. The system shows the register page with fields to be entered for the guest's information. 5. The actor fills in all the fields with the required information and clicks on the "Register Account" button. 6. If the fields are valid, the system adds the guest to the database. 7. The system displays a success message. |
| **Extensions** | 6a) If the actor leaves one of the data fields empty:  I) The system displays a pop-up message: "PLEASE FILL ALL INFORMATION."  ii) The actor acknowledges the message and fills in all the required fields.  6b) In case the actor's registered information already exists:  I) The system displays a pop-up message: "ACCOUNT ALREADY EXISTS."  ii) The actor follows "FR-01" to retrieve their login credentials. |
| **Assumptions** | The user knows their personal login credentials. |

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| **ID** | UC11- Update account information. **“FR-012”** |
| **Actor** | Guest |
| **Pre-condition** | Guest should be logged in and must have a registered guest account. |
| **Main success scenario** | 1. The actor clicks on the "Log In" button on the homepage to access their account. 2. The system shows the guest's login details and automatically fills the fields with information from the database. 3. The actor edits the information with the new updated details and clicks on the "Update Info" button. 4. If the fields are valid, the system updates the entered information in the database. 5. The system displays a success message. |
| **Extensions** | 4a. If actor fills up invalid fields?  I) The system displays a pop-up message: "INVALID INFORMATION FILLED."  ii) The actor acknowledges the message and corrects the invalid fields.  ii) The actor again continues from 4. |
| **Assumptions** | The user knows their personal login credentials. |

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| **ID** | UC12- Book room **“FR-014”** |
| **Actor** | Guest |
| **Pre-condition** | Guest must have a guest account to book. |
| **Main success scenario** | 1. The actor clicks on the "Rooms" tab on the navigation bar. 2. The system displays all available rooms with their availability status. 3. The actor selects a room to book if it is available. 4. The system shows the details of the selected room, such as room type and booking price. 5. The system also displays information about the guest in a field to identify who booked the room. 6. The actor clicks on the "Confirm" button to book the room. 7. If the fields are valid, the system generates a booking ID. 8. The system adds the booking to the database. 9. The system shows the booking status as "Checked In." 10. The system displays a message indicating that the booking has been successfully added. |
| **Extensions** | 7a) If actor fills up invalid fields?   1. The system displays a pop-up message: "INVALID INFORMATION FILLED." |
| **Assumptions** | The user knows their personal login credentials. |

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| **ID** | UC13- Check-in. “**FR-015”** |
| **Actor** | Guest |
| **Pre-condition** | Guest must have valid booking Id |
| **Main success scenario** | 1. The actor enters a valid booking ID and clicks the "Submit" button. 2. The system validates the booking ID. 3. Upon successful validation, the system displays the booking details, including the room ID. 4. The system shows a success message for the check-in. |
| **Extensions** | 1a) If actor enters incorrect booking id?   1. The system shows a pop-up message: "BOOKING DOESN'T EXIST." |

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| **ID** | UC14- Check-out. “**FR-016”** |
| **Actor** | Guest |
| **Pre-condition** | Guest must have valid booking Id and booking id must have a valid room id linked to it. |
| **Main success scenario** | 1. The actor enters a valid booking ID. 2. The actor clicks the "Submit" button. 3. Upon successful validation, the system removes the linked room ID from the booking ID. 4. The system updates the booking status as "Complete." 5. The system shows a success message. |
| **Extensions** | 1a) If actor enters incorrect booking id?   1. The system shows a pop-up message: "BOOKING DOESN'T EXIST." |

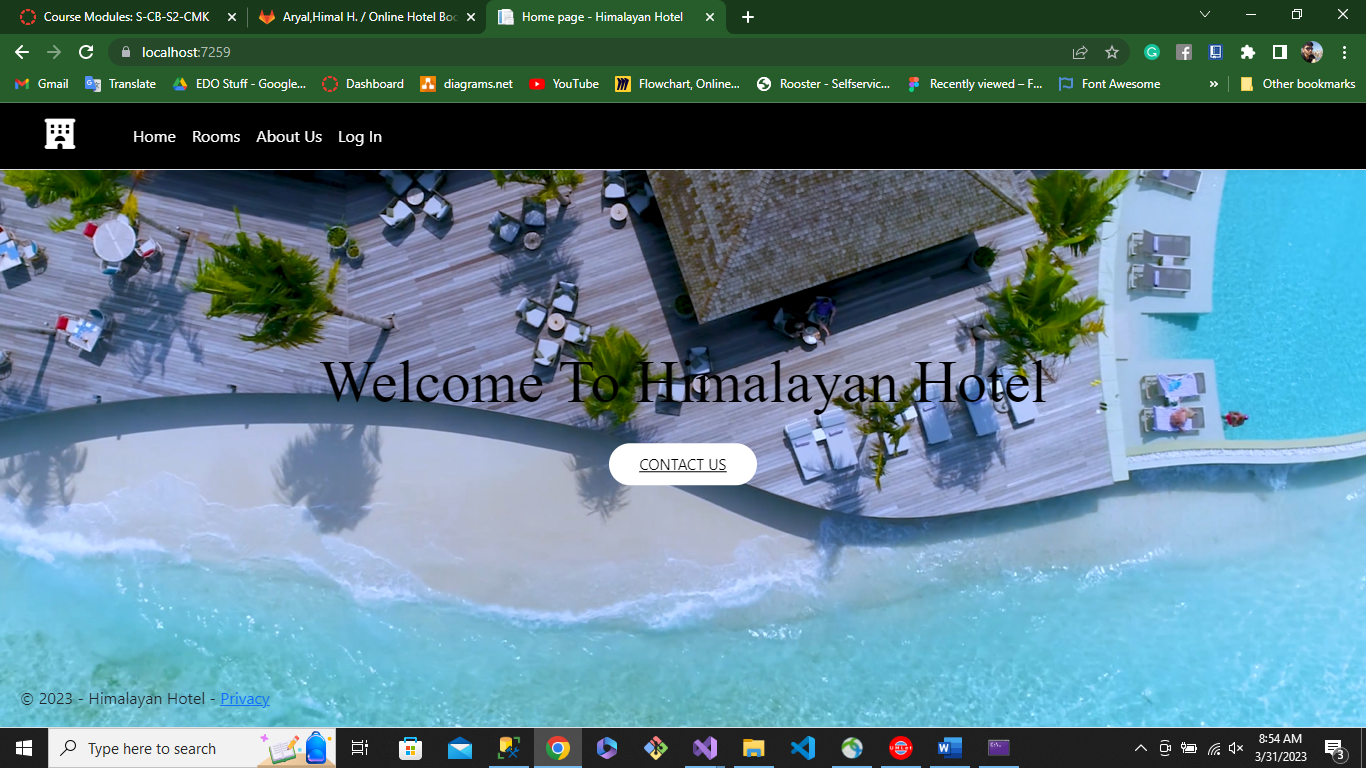
# Use Case Diagram

A picture containing text, metalware, leaf

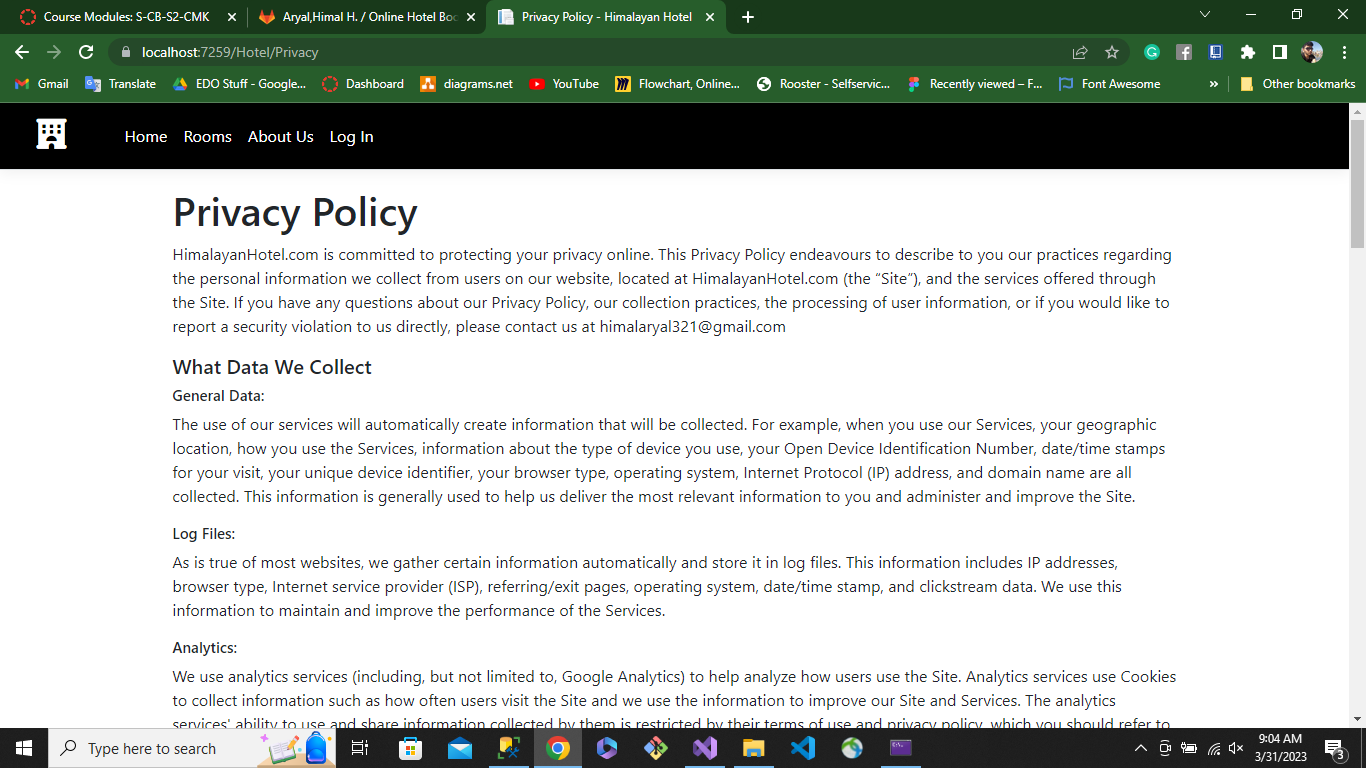
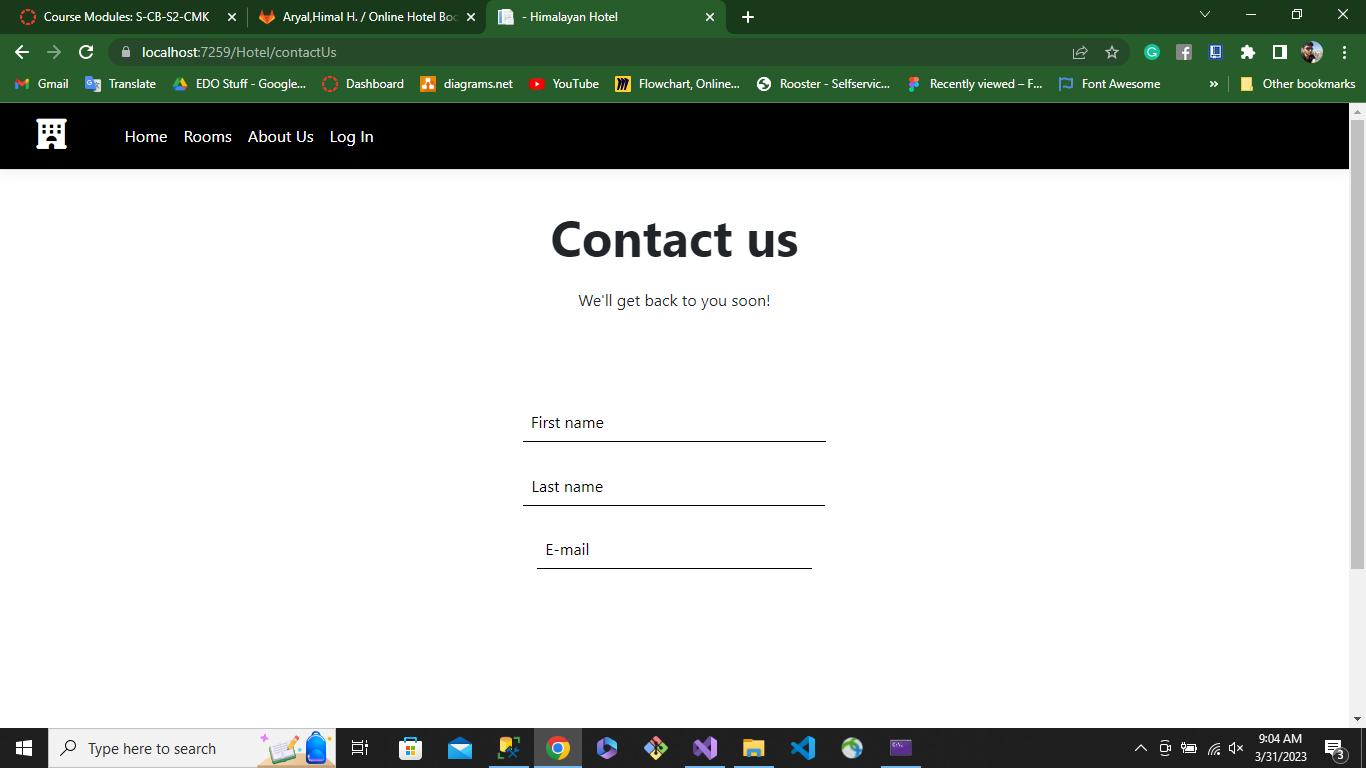
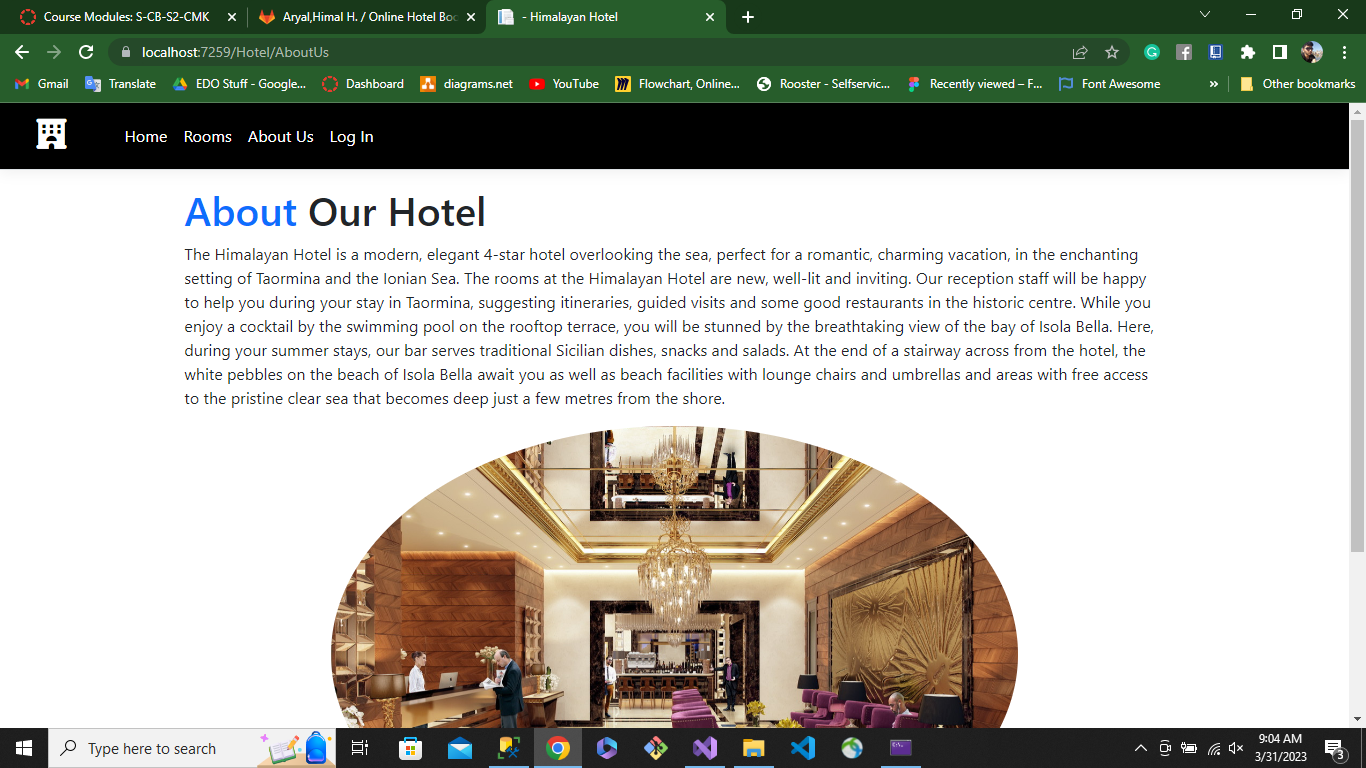
Description automatically generated

# GUI

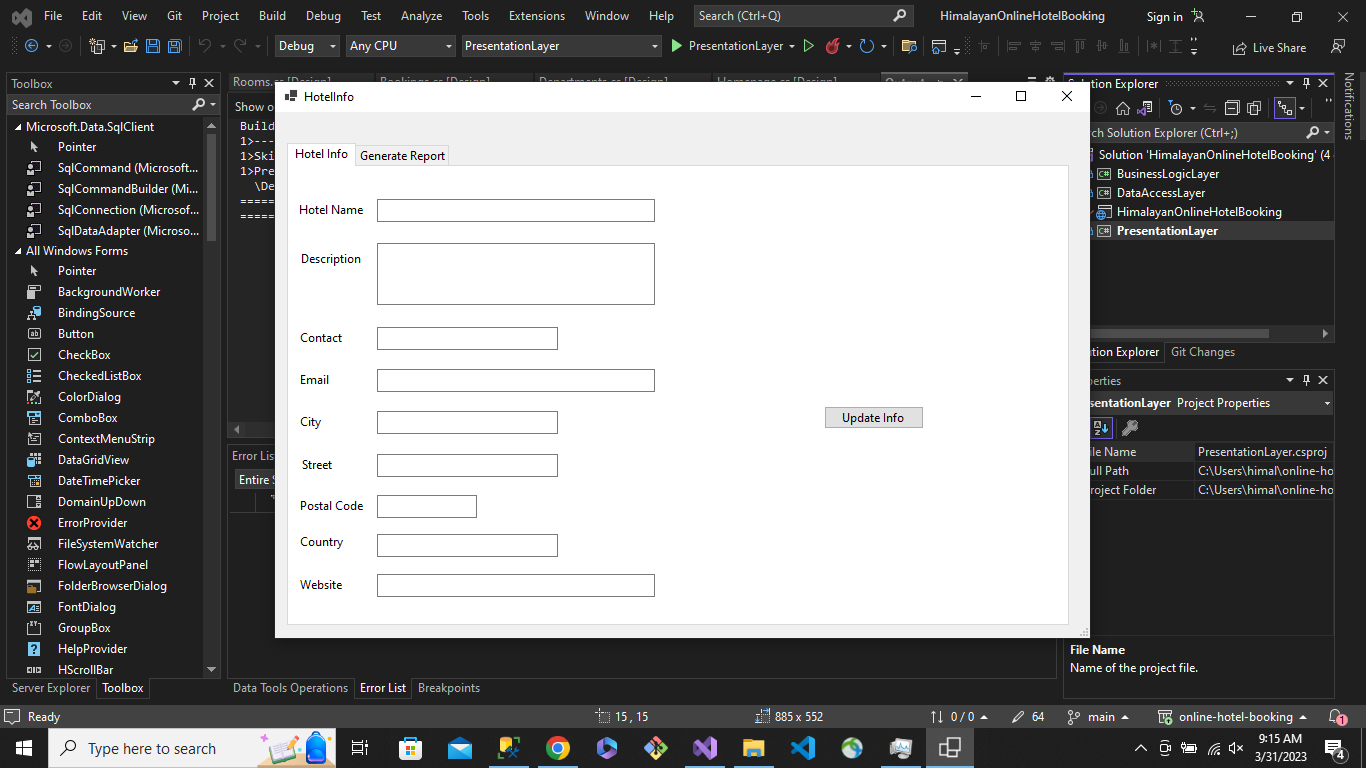
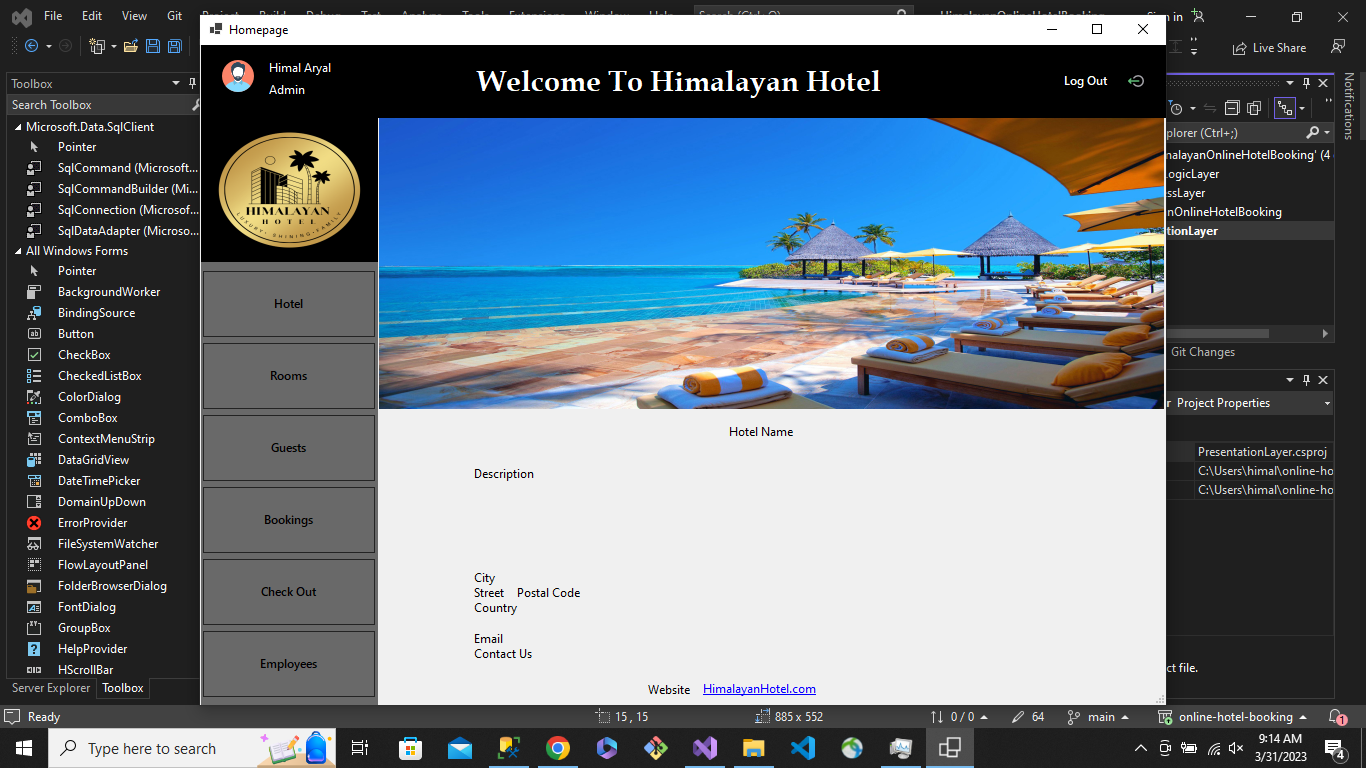
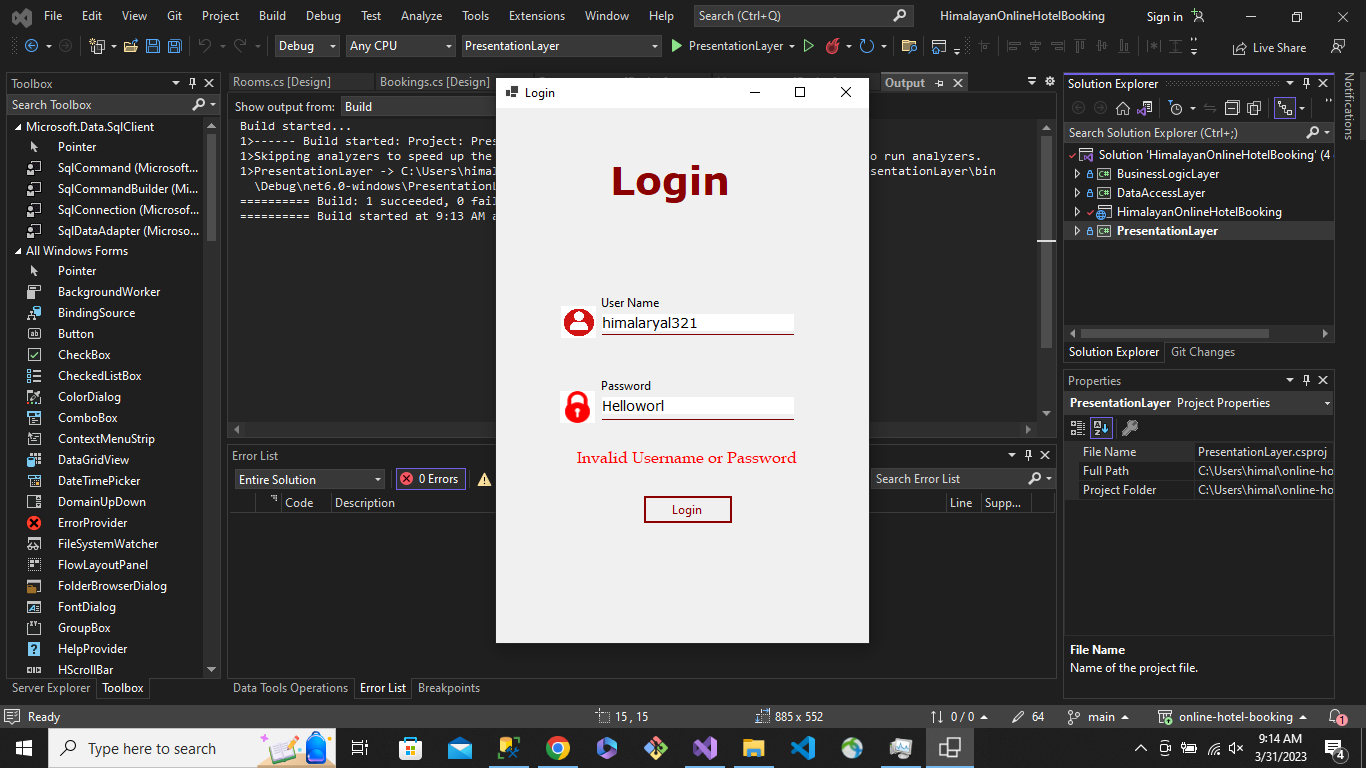
## Website

Graphical user interface, application

Description automatically generatedGraphical user interface, application

Description automatically generated

## Desktop

A screenshot of a computer

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