

Hotel Reservation System Instruction Manual

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1.Introduction

The Hotel Reservation program is a software application written in Java designed to facilitate the process of booking and managing hotel accommodations. The program helps hotels and their guests streamline the reservation process, manage room availability, and improve overall customer service. Developed over a period of eight weeks, the project was implemented by a group of three developers.

a.Purpose:

The finished product provides hotel reservation services to customers with a dynamic set of tools to manage reservations and search for available hotel rooms with ease. By creating and logging into a unique user account, customers may input their search information for a hotel room containing the location of the hotel and dates.

b.Key Features:

- Reserve a Room:
 - Search for available rooms by date, room type, or amenities.
 - Make a room reservation.
- View Reservations:
 - Display a list of current reservations.
- Check-in/Check-out:
 - Check-in guests.
 - Check-out guests.
 - Generates a unique ID that the user can use in the hotel.
 - When the user checks out their room will become available for reserving.
- Delete Reservation
 - Removes user's reservation.
- User Profile:
 - Guests can create a username and password.
 - Guests personal information will be securely stored.
- View profile and reservations:
 - Guests view or cancel their existing reservations.
 - Guests can change personal information.
 - The user can view their payment per night for their reservations.
- Log In/Out:
 - Allow the user to log in using their username and password.
 - Allow users to securely log out of the system.

2.System Requirements and Installation Process:

The following installation and system requirements provide detailed instructions and guidance on how to properly set up and install the software on a user's computer or system. The purpose of this section is to help users navigate the process of getting the software ready for use, ensuring that it is correctly configured, and any required dependencies are met.

a.System and Hardware Requirements:

- Operating System:
 - Check the Eclipse and Java documentation to confirm the supported operating systems. Eclipse is typically compatible with Windows, macOS, and Linux.
- Processor:
 - Ensure that your computer's processor meets the requirements specified by Eclipse and Java. This information is usually available on their respective websites.
- Memory (RAM):
 - Verify that your computer has sufficient RAM to run Eclipse and Java. Eclipse generally recommends a minimum of 1 GB of RAM.

b.Software Requirements:

- Java Development Kit (JDK):
 - Download and install Java JDK 11 on your computer. Eclipse relies on the JDK for Java development. You can find JDK 11 on the official Oracle website or adopt OpenJDK, which is an open-source alternative.
- Eclipse IDE:
 - Download the Eclipse IDE version that is compatible with Java 11. You can find this information on the Eclipse website. Eclipse provides different distributions for different types of development (e.g., Java, C++, etc.). Ensure you download the one tailored for Java development.

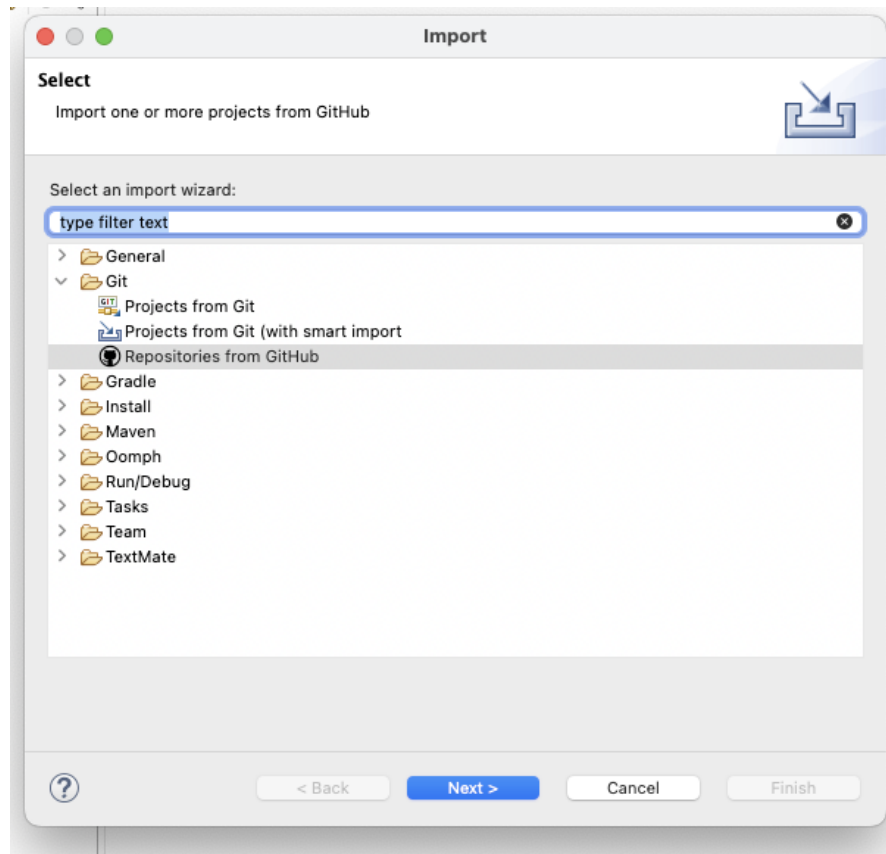
c.Pre-installation Checks:

- Check System Compatibility:
 - Ensure system requirements and hardware requirements are met.
- Check for Updates:
 - Check for any available updates or patches before beginning the installation.

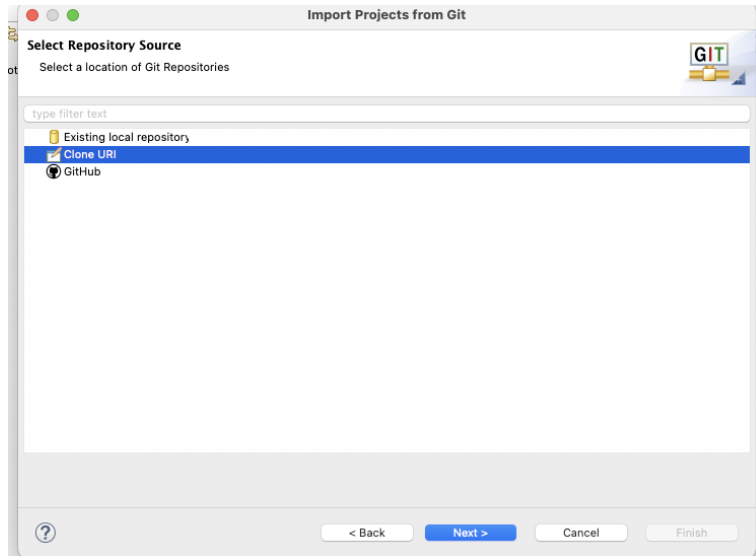
d.Installation:

- Eclipse Installation:
 - Install Eclipse on your computer following the installation instructions provided on the Eclipse website.

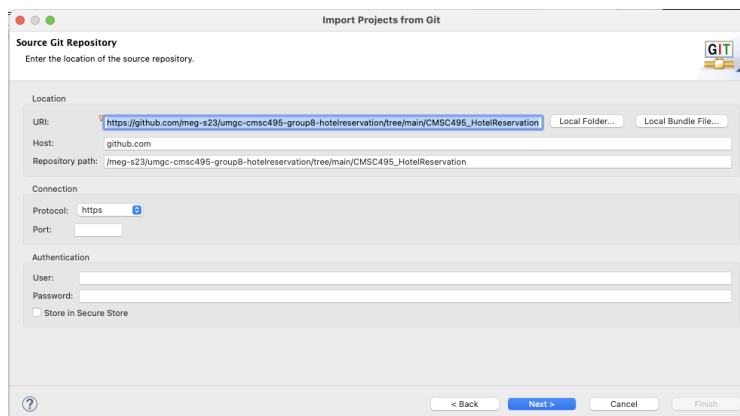
- During the installation process, Eclipse may prompt you to select the JDK to be used. Choose the installed JDK 11.
- Launch Eclipse:
 - After installation, launch Eclipse.
 - Check Eclipse Preferences and ensure that JDK 11 is listed and selected.
- Import Hotel Reservation Program:
 - Copy the GitHub URL of the repository to the clipboard
 - https://github.com/meg-s23/umgc-cmsc495-group8-hotelreservation/tree/main/CMSC495_HotelReservation
 - Open Eclipse and choose Import → Projects from Git (with smart import)



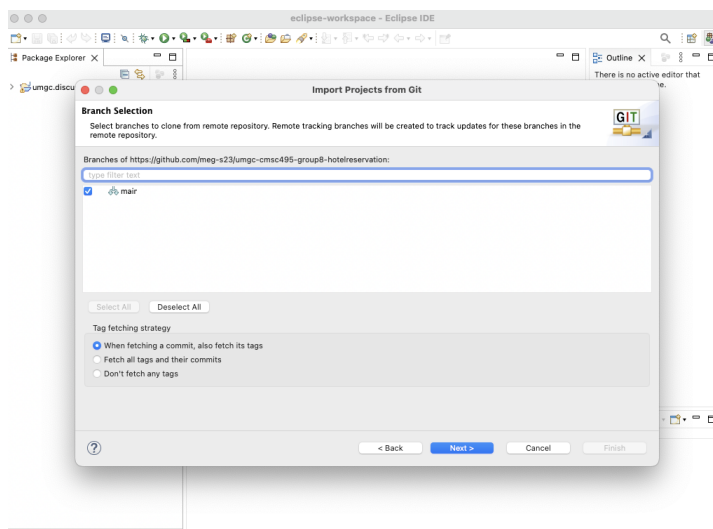
- Choose the Clone URI option in the Git import wizard and click *Next*



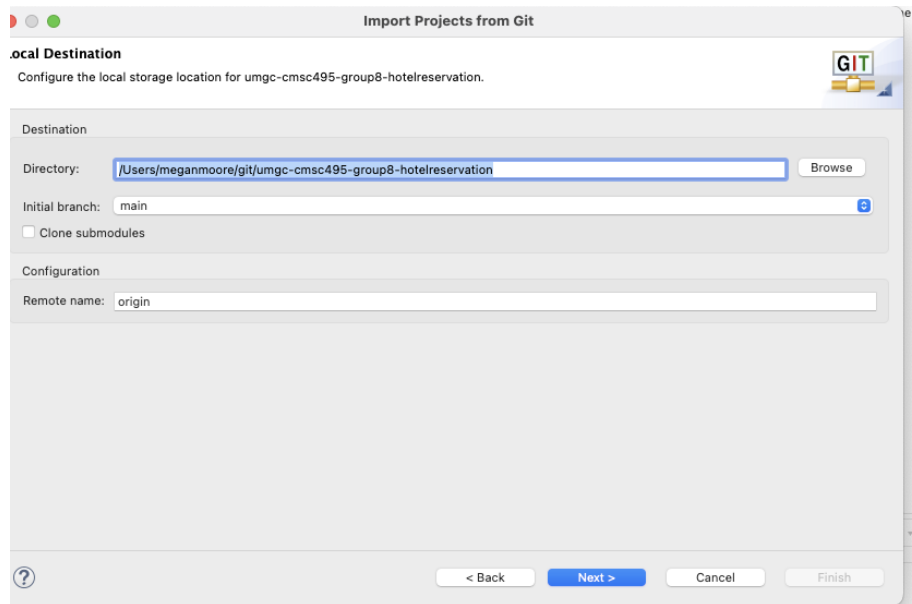
- Confirm the URI, Host and Repository path parameters and click *Next*



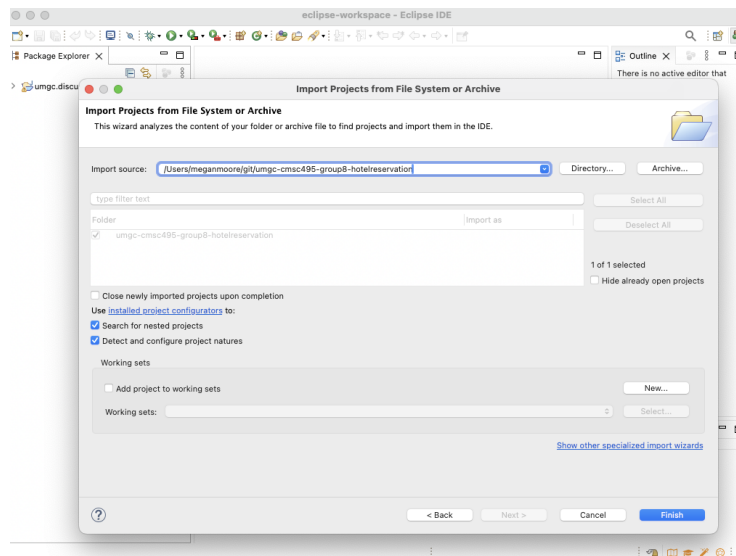
- Choose the Git branches to clone from the remote repository and click *Next*



- Confirm the Directory into which the repository will be cloned and click *Next*

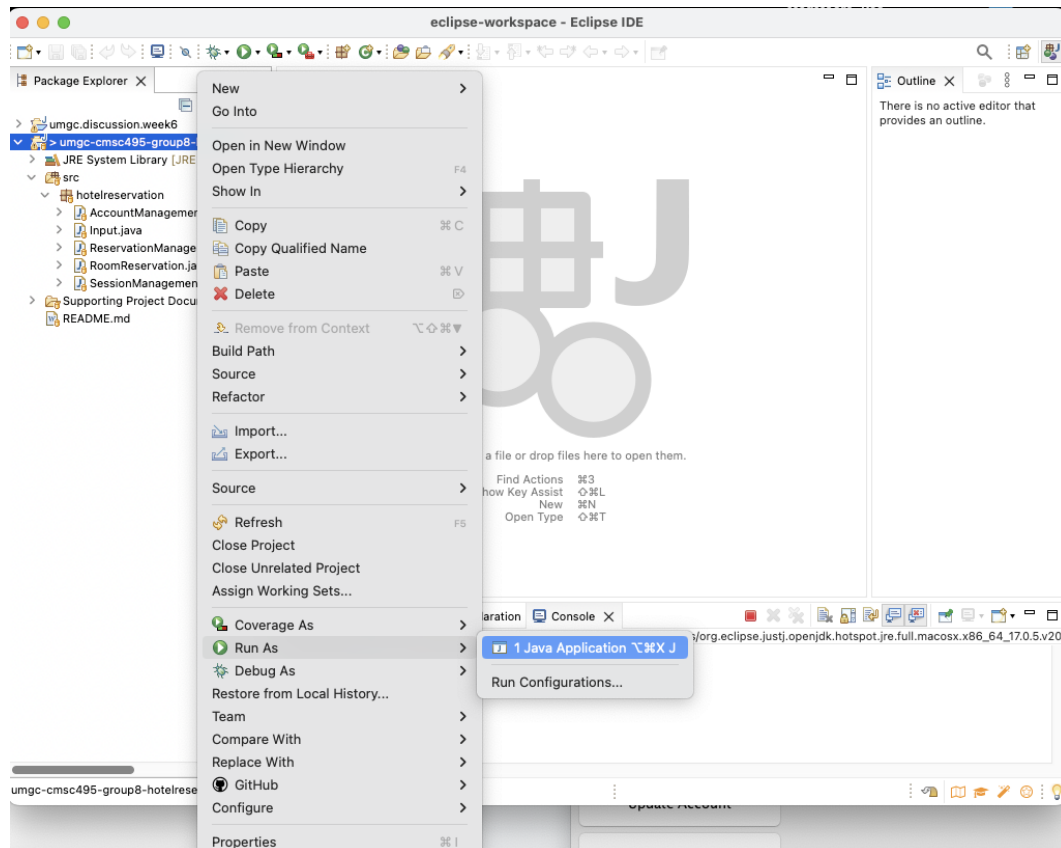


- Choose the Maven project to import into Eclipse from GitHub and click *Finish*



3. Hotel Reservation Program Operating Procedures

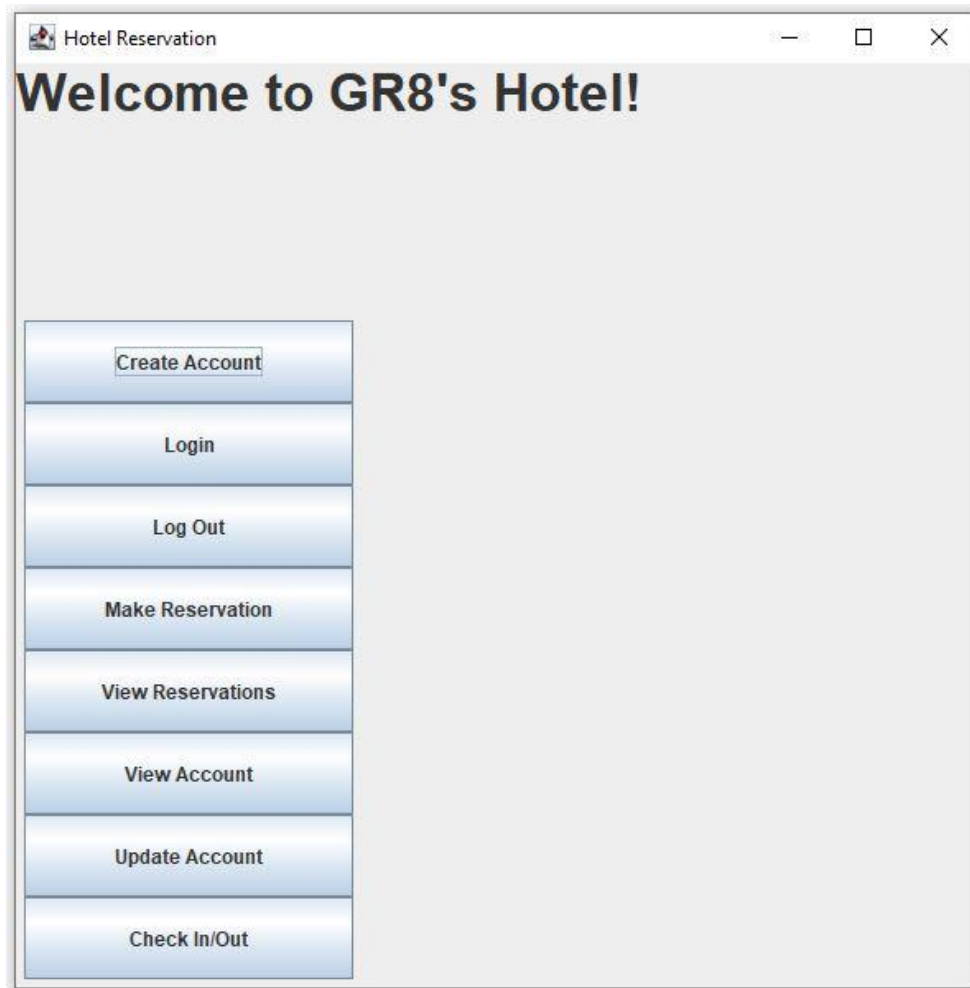
After the Finish button is clicked, a few disconcerting error messages may appear in the Tasks window, but don't let them startle you. After Eclipse imports a Maven project from GitHub, the project's pom.xml file gets processed, and missing dependencies are pulled down from Maven central. Until these dependencies are fully downloaded and installed in the local Maven repo, error messages will appear.



a.Main Menu:

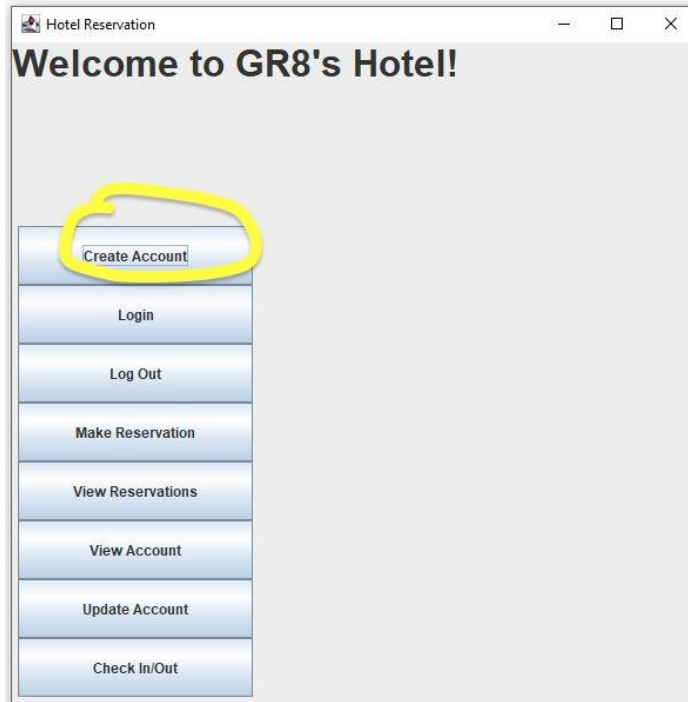
- Once all system and hardware requirements are met, the Github repository is properly imported and launched. The Hotel Reservation Program main menu will appear.

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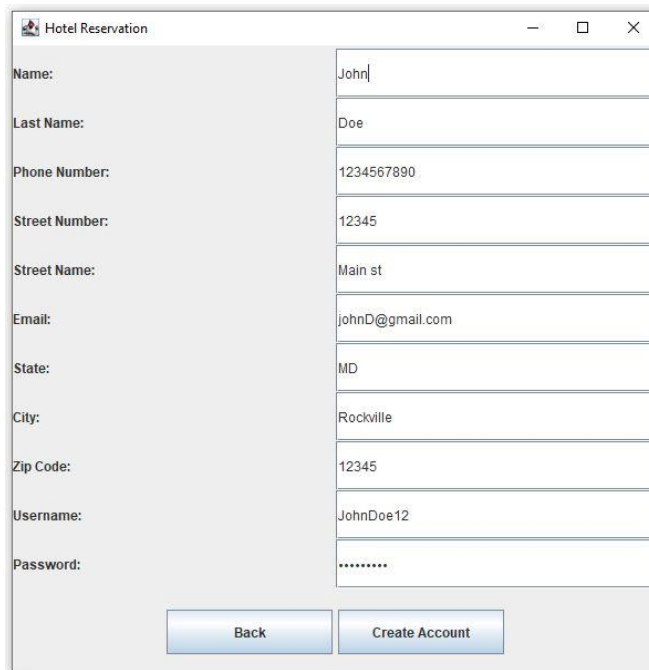
b.First time user:

- First time users will create an account where their information and username and password are securely stored by selecting the *Create Account* button.



The screenshot shows a window titled "Hotel Reservation" with a light gray background. At the top, it says "Welcome to GR8's Hotel!". Below this, there is a vertical stack of blue buttons with white text. The buttons are: "Create Account", "Login", "Log Out", "Make Reservation", "View Reservations", "View Account", "Update Account", and "Check In/Out". A yellow circle is drawn around the "Create Account" button, with an arrow pointing to it from the left.

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The screenshot shows the same "Hotel Reservation" window, but now it displays a registration form. The form has the following fields and values:

Field	Value
Name:	John
Last Name:	Doe
Phone Number:	1234567890
Street Number:	12345
Street Name:	Main st
Email:	johnD@gmail.com
State:	MD
City:	Rockville
Zip Code:	12345
Username:	JohnDoe12
Password:	*****

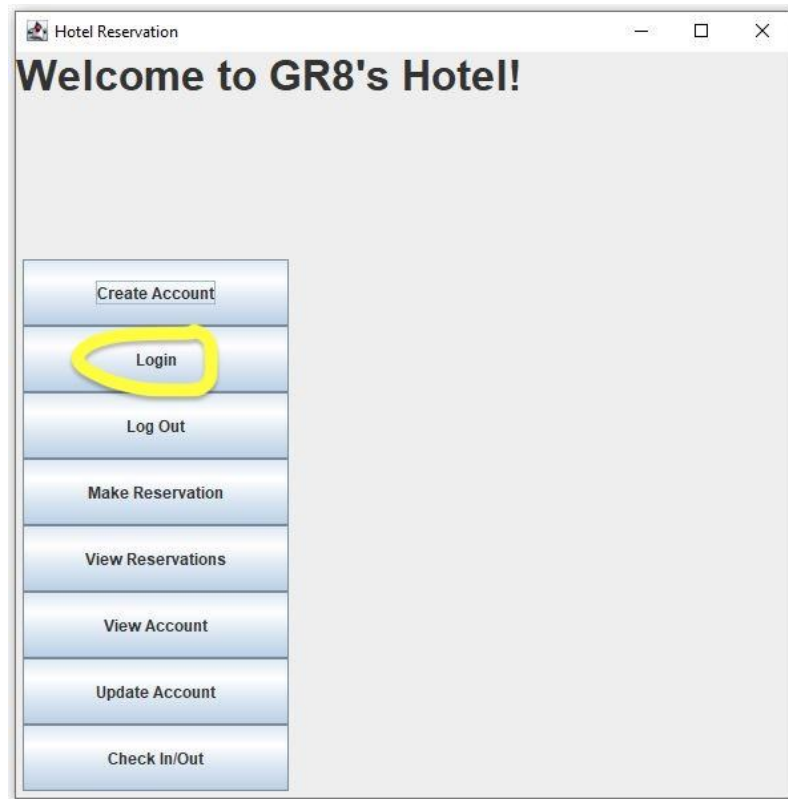
At the bottom of the form, there are two buttons: "Back" and "Create Account". The "Create Account" button is highlighted with a yellow circle.

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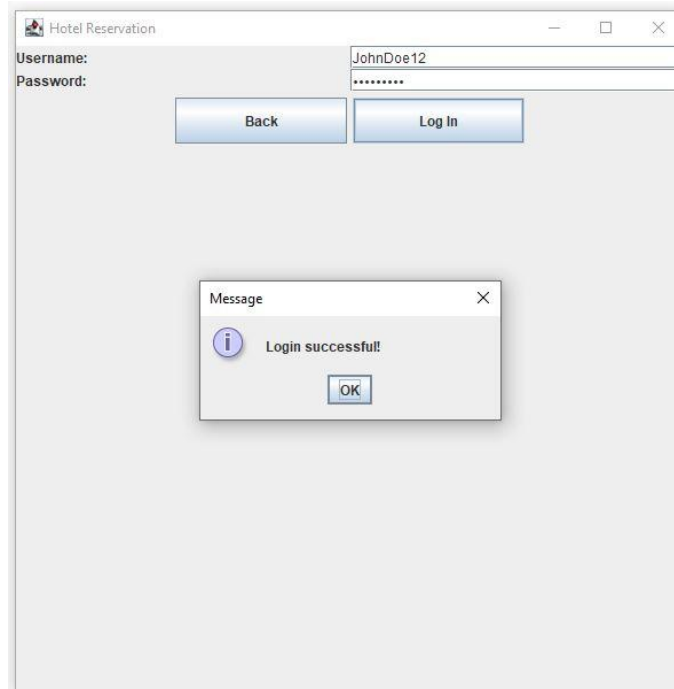
- The user will input all personal information like the above example.

c.Returning User:

- A returning user will select the *Login* button.

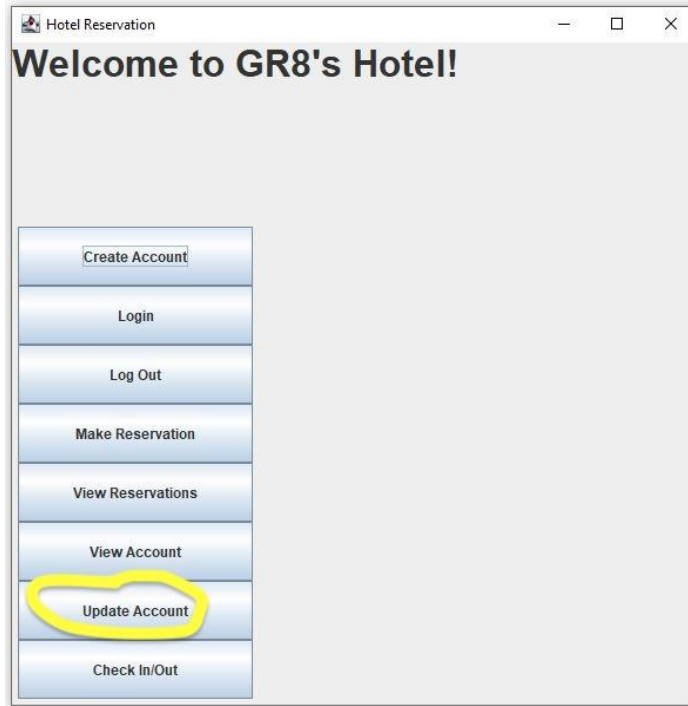


- The user will input their username and password like the example below and a successful login message will appear.

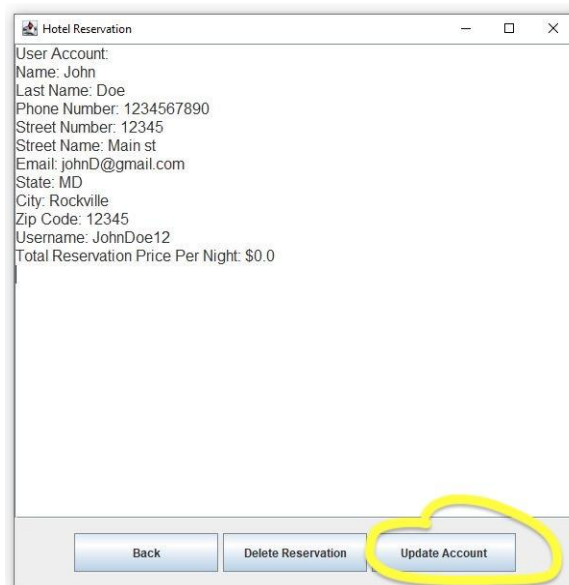


d.Update User Information:

- Users can update their information by selecting the *Update Account* button after logging in using their credentials.



- The User's account information will be displayed and the user will select the *Update Account* button.



- Users can then edit and update their personal information.

The screenshot shows a window titled "Hotel Reservation" with a standard Windows-style title bar (minimize, maximize, close buttons). The window contains a form with the following fields and values:

Field Label	Value
New Name:	James
New Last Name:	Done1
New Phone Number:	2345678901
New Street Number:	67890
New Street Name:	Main Street
New Email:	JamesD@gmail.com
New State:	VA
New City:	Richmond
New Zip Code:	67890
New Username:	JamesDone11
New Password:
Old Password:

At the bottom of the form are two buttons: "Update Account" and "Back".

- Once the user is done updating their account information. The user will select the *Update Account* button.

Hotel Reservation

New Name:	James
New Last Name:	Donel
New Phone Number:	2345678901
New Street Number:	67890
New Street Name:	Main Street
New Email:	JamesD@gmail.com
New State:	VA
New City:	Richmond
New Zip Code:	67890
New Username:	JamesDonel1
New Password:	*****
Old Password:	*****

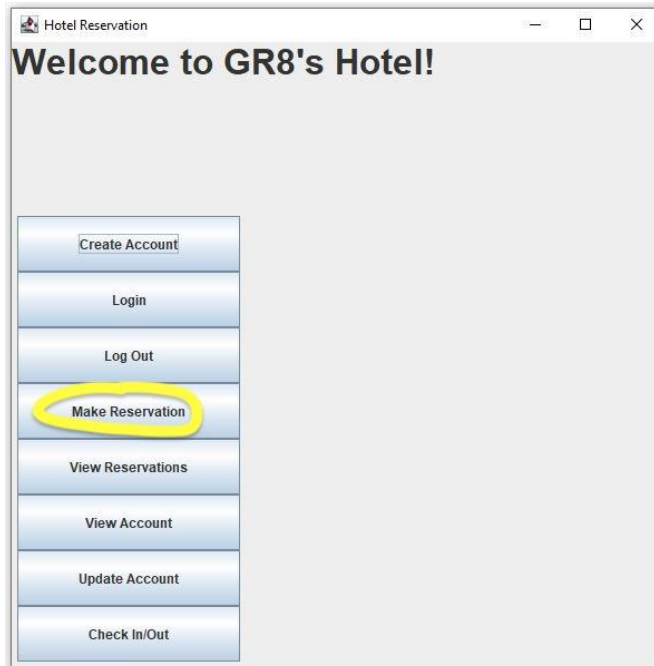
Update Account **Back**

- The program will process the User's information update and provide an *Account Updated Successfully* message.



e. Reserve Room:

- Users can make a new hotel room reservation after logging into the system using their credentials and selecting the *Make Reservation* button.



- Users can view current available hotel rooms, room number, room price and size of room



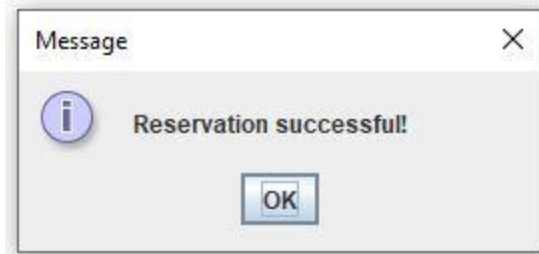
- Users will select the desired room and input the reservation details which is the check in and out date and number of guests. The User will select the *Ok* button.

The screenshot shows the 'Hotel Reservation' application window. It contains a 'Room Description' section with details about room types (single queen, double queen, deluxe, and suite). Below this is a list of 'Available Rooms' with their status and prices. A modal dialog box titled 'Enter Reservation Details' is open, allowing the user to select a room number (101), check-in date (12-13-2023), check-out date (12-29-2023), and number of people (1). The dialog has 'OK' and 'Cancel' buttons. The main window has 'Back' and 'Reserve' buttons at the bottom.

- User will proceed to select the *Reserve* button.

This screenshot is identical to the previous one, showing the 'Hotel Reservation' application with the 'Enter Reservation Details' dialog box open. The 'Reserve' button at the bottom right of the main window is circled in yellow, indicating the next step in the user's action.

- Program will process the user's reservation and a *Reservation Successful* message will appear.



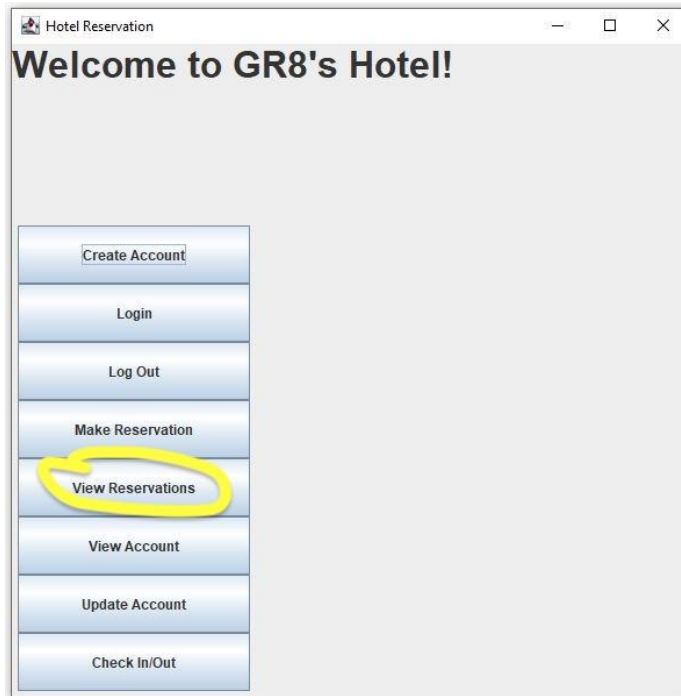
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- User will select *Ok* to continue.



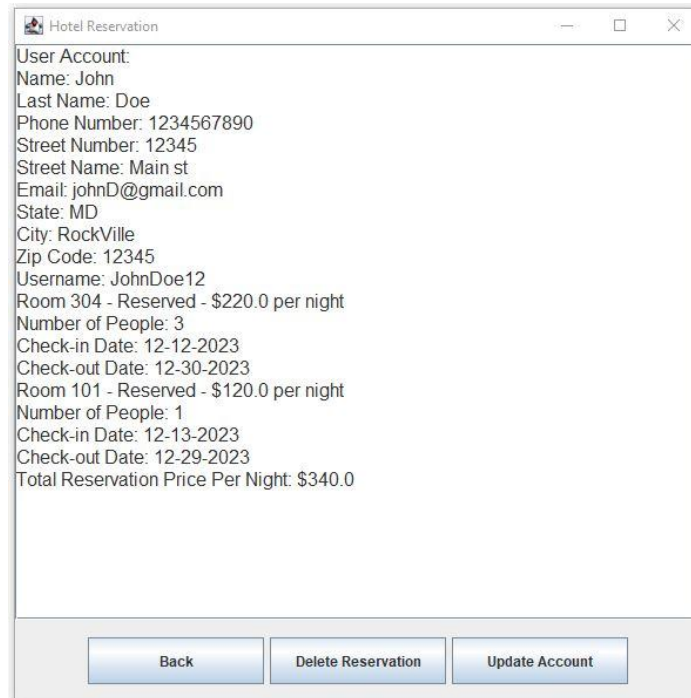
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f.View and Delete Reservation:

- Users can view current hotel room reservations and delete hotel room reservations after logging into the program using their credentials and selecting the *View Reservation* button.



- The reservation information screen will appear with User's personal and hotel room reservation information.



- If the User wants to delete their hotel room reservation, the User will select the *Delete Reservation* button.

Hotel Reservation

User Account:
Name: John
Last Name: Doe
Phone Number: 1234567890
Street Number: 12345
Street Name: Main st
Email: johnD@gmail.com
State: MD
City: RockVille
Zip Code: 12345
Username: JohnDoe12
Room 304 - Reserved - \$220.0 per night
Number of People: 3
Check-in Date: 12-12-2023
Check-out Date: 12-30-2023
Room 101 - Reserved - \$120.0 per night
Number of People: 1
Check-in Date: 12-13-2023
Check-out Date: 12-29-2023
Total Reservation Price Per Night: \$340.0

Back Delete Reservation Update Account

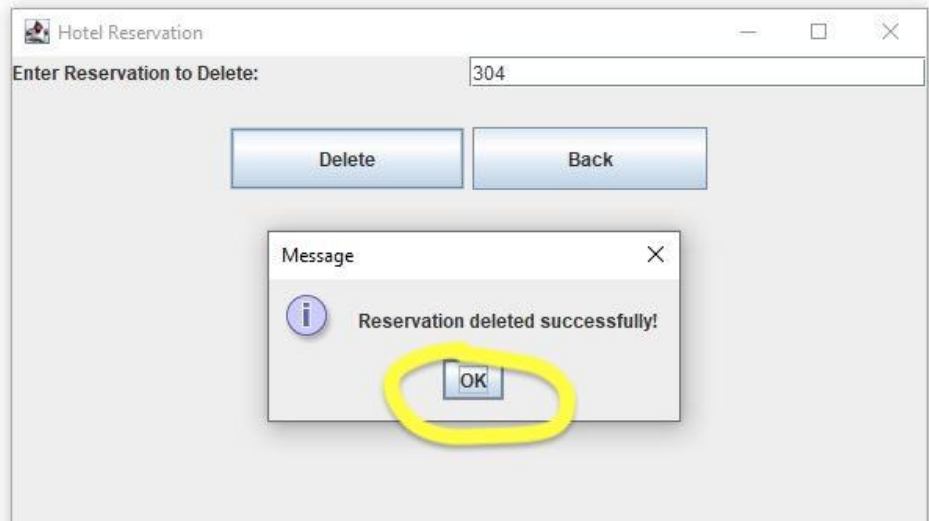
- The program will prompt the user to input the hotel room reservation they want to delete and select the *Delete* button.

Hotel Reservation

Enter Reservation to Delete: 304

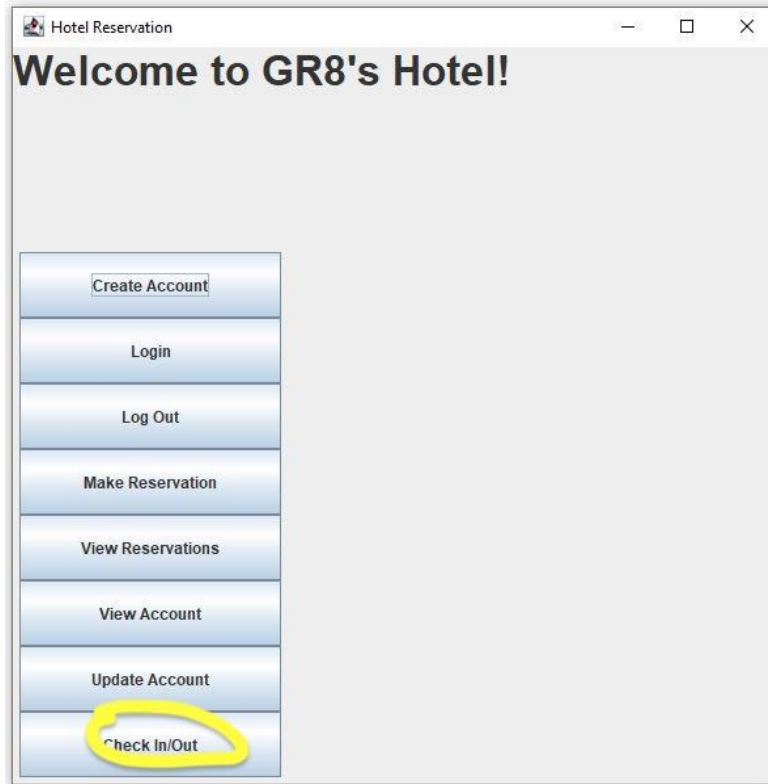
Delete Back

- A *Reservation Deleted Successfully* message will appear once the program processes the request. User will select *Ok* to continue.



g.Room Check-In/Out:

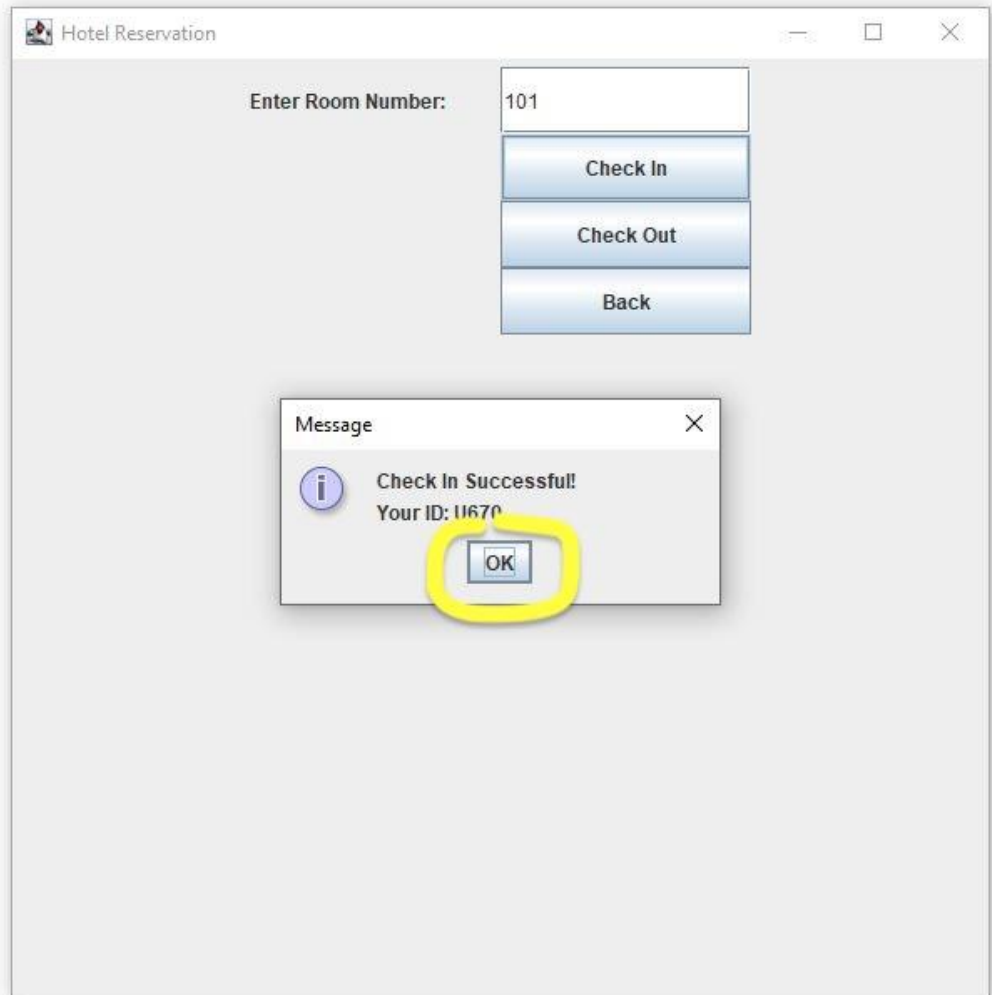
- Users can check-in and out to their current hotel room reservations after logging into the system using their credentials and selecting the *Check In/Out* button.



- The system will prompt the User to input their room number to check-in. User will select the *Check In* button.



- The system will process the User's request and display a *Check In Successful* message with a specific user *ID*. The User will select *Ok* to continue.



-
- Once the User has completed their stay, they can check-out of their hotel room by entering the hotel room number and selecting the *Check-Out* button.



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- The system will process the User's request to check-out and will display a Thank you message. The User will select Ok to continue.

Hotel Reservation

Enter Room Number: 101

Check In

Check Out

Back

Message

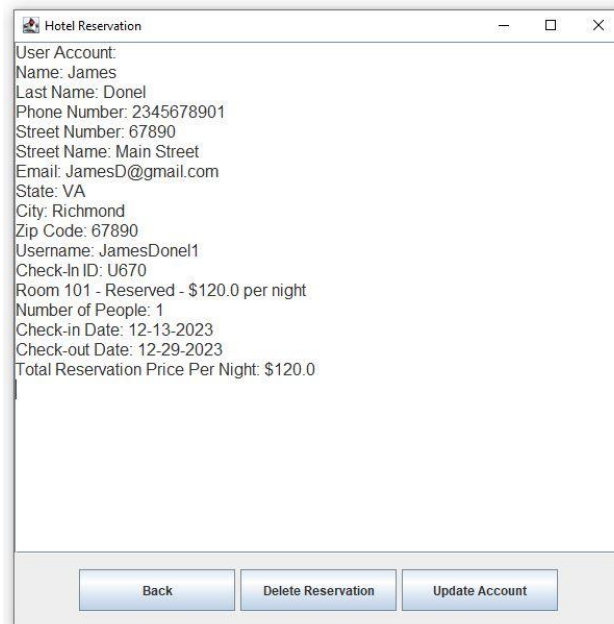
Thanks for Staying!
The room is now available for reservation.

OK

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h. Billing and Payments:

- Once User has reserved their hotel room with the specified dates, a bill of sale will be generated to be paid at Hotel desk.



A screenshot of a web application window titled "Hotel Reservation". The window displays the following information:

User Account:
Name: James
Last Name: Donel
Phone Number: 2345678901
Street Number: 67890
Street Name: Main Street
Email: JamesD@gmail.com
State: VA
City: Richmond
Zip Code: 67890
Username: JamesDonel1
Check-In ID: U670
Room 101 - Reserved - \$120.0 per night
Number of People: 1
Check-in Date: 12-13-2023
Check-out Date: 12-29-2023
Total Reservation Price Per Night: \$120.0

At the bottom of the window, there are three buttons: "Back", "Delete Reservation", and "Update Account".

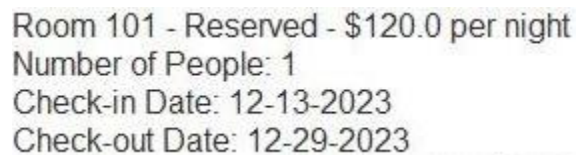
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- User will follow the check-in hotel room procedures and a unique ID will be assigned to User with room information for the bill to be paid.



A screenshot of a text box containing the following information:

Username: JamesDonel1
Check-In ID: U670
Room 101 - Reserved - \$120.0 per night
Number of People: 1

-
- Once payment is made by the User, the Hotel will mark the User as paid and a copy of the bill will be generated displaying all of the room information.



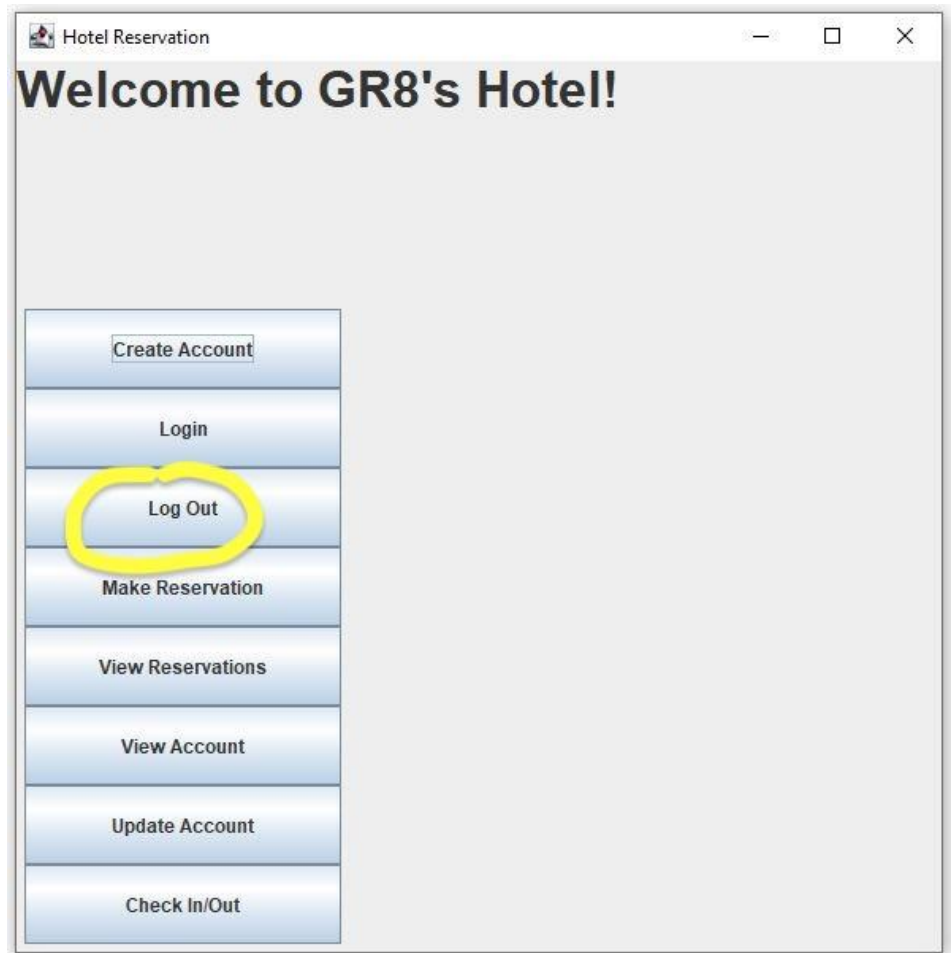
A screenshot of a text box containing the following information:

Room 101 - Reserved - \$120.0 per night
Number of People: 1
Check-in Date: 12-13-2023
Check-out Date: 12-29-2023

i.Log Out:

- Users can log out of the hotel room reservation system to ensure account security by selecting the *Log Out* button on the main menu screen.

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- The system will display the *Logout Successful* message and User will select *Ok* to continue.

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