

Hotel Reservation System Instruction Manual

Jules Torres, Megan Moore, Mario Bethancourt
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Group 8:
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Professor Hung Dao

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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
 - 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.First time user:

- Guests Create a User Profile where their username and password are securely stored.

The 'Hotel Reservation' window displays a form for creating a new user profile. The form includes fields for Name, Last Name, Phone Number, Address, Username, and Password. The 'Create Account' button is visible at the bottom right.

Name:	John
Last Name:	Joe
Phone Number:	3014567892
Address:	12345 Main Street
Username:	John30
Password:	*****

Buttons: Back, Create Account

The 'Hotel Reservation' window displays a form for logging in. The form includes fields for Username and Password. The 'Log In' button is visible at the bottom right.

Username:	John30
Password:	*****

Buttons: Back, Log In

b.Reserve a Room:

- Search for available rooms by date, room type, or amenities.

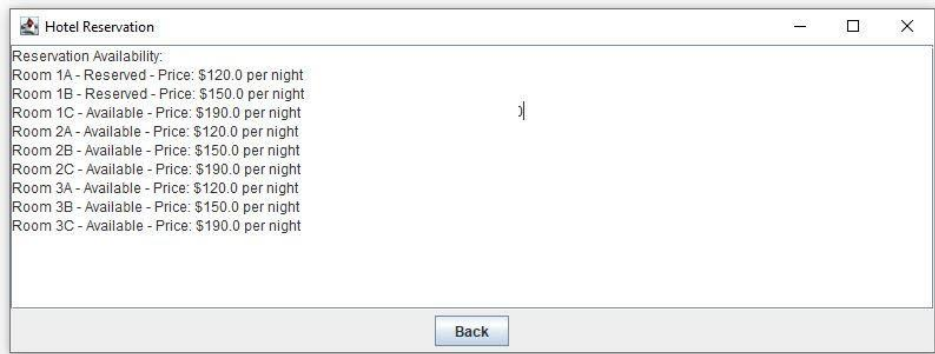
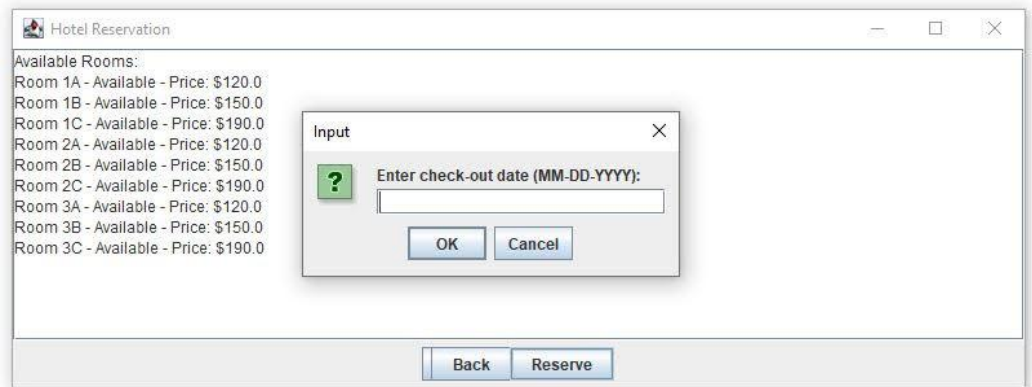
The 'Hotel Reservation' window displays a list of available rooms and their prices. An 'Input' dialog box is open, prompting the user to enter a check-in date (MM-DD-YYYY).

Available Rooms:

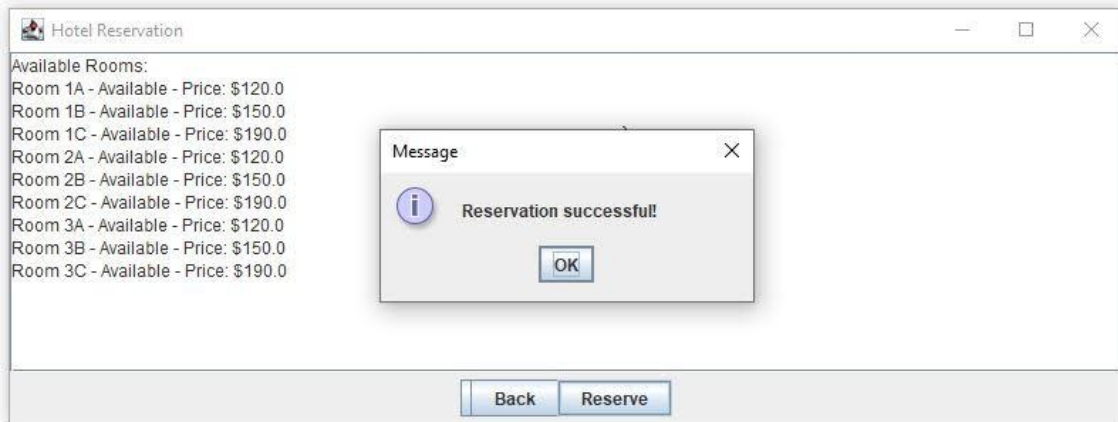
- Room 1A - Available - Price: \$120.0
- Room 1B - Available - Price: \$150.0
- Room 1C - Available - Price: \$190.0
- Room 2A - Available - Price: \$120.0
- Room 2B - Available - Price: \$150.0
- Room 2C - Available - Price: \$190.0
- Room 3A - Available - Price: \$120.0
- Room 3B - Available - Price: \$150.0
- Room 3C - Available - Price: \$190.0

Input dialog box: Enter check-in date (MM-DD-YYYY):

Buttons: Back, Reserve



- Reserve Room



c.View Reservations:

- Users can view current hotel reservations.

Hotel Reservation

User Account:
 Name: John
 Last Name: Doe
 Phone Number: 3014567892
 Address: 12345 Main Street
 Username: John30
 Room 1B - Reserved - \$150.0 per night
 Check-in Date: 2023-11-26
 Check-out Date: 2023-12-02
 Total Reservation Price: \$150.0

Buttons: Back, Delete Reservation, Update Account

- Users can view past hotel reservations on their profile with check in dates and times.

Hotel Reservation

User Account:
 Name: John
 Last Name: Doe
 Phone Number: 3014567892
 Address: 12345 Main Street
 Username: John30
 Room 1A - Reserved - \$120.0 per night
 Check-in Date: 2023-11-27
 Check-out Date: 2023-12-01
 Room 1B - Reserved - \$150.0 per night
 Check-in Date: 2023-11-26
 Check-out Date: 2023-12-02
 Total Reservation Price: \$270.0

Buttons: Back, Delete Reservation, Update Account

d.Check-in/ Check- out Procedures:

e.Delete Reservation:

- Users can delete and modify current hotel reservations.

Hotel Reservation

Enter Reservation to Delete:

1A

Message: Reservation deleted successfully!


Buttons: OK, Back, Delete

f.Billing and Payments:

g.Log Out:

- Users can log out of Hotel Reservation Program

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 Hotel Reservation

User Account:
Not logged in

Back

Delete Reservation

Update Account