

OBJECT ORIENTED PROGRAMMING THROUGH JAVA

ABSTRACT FOR THE JAVA
PROJECT:
HOTEL BOOKING APPLICATION

MADE BY :

22011M2112 - A. PAVAN KUMAR

22011M2114 - H. YASHWANTH

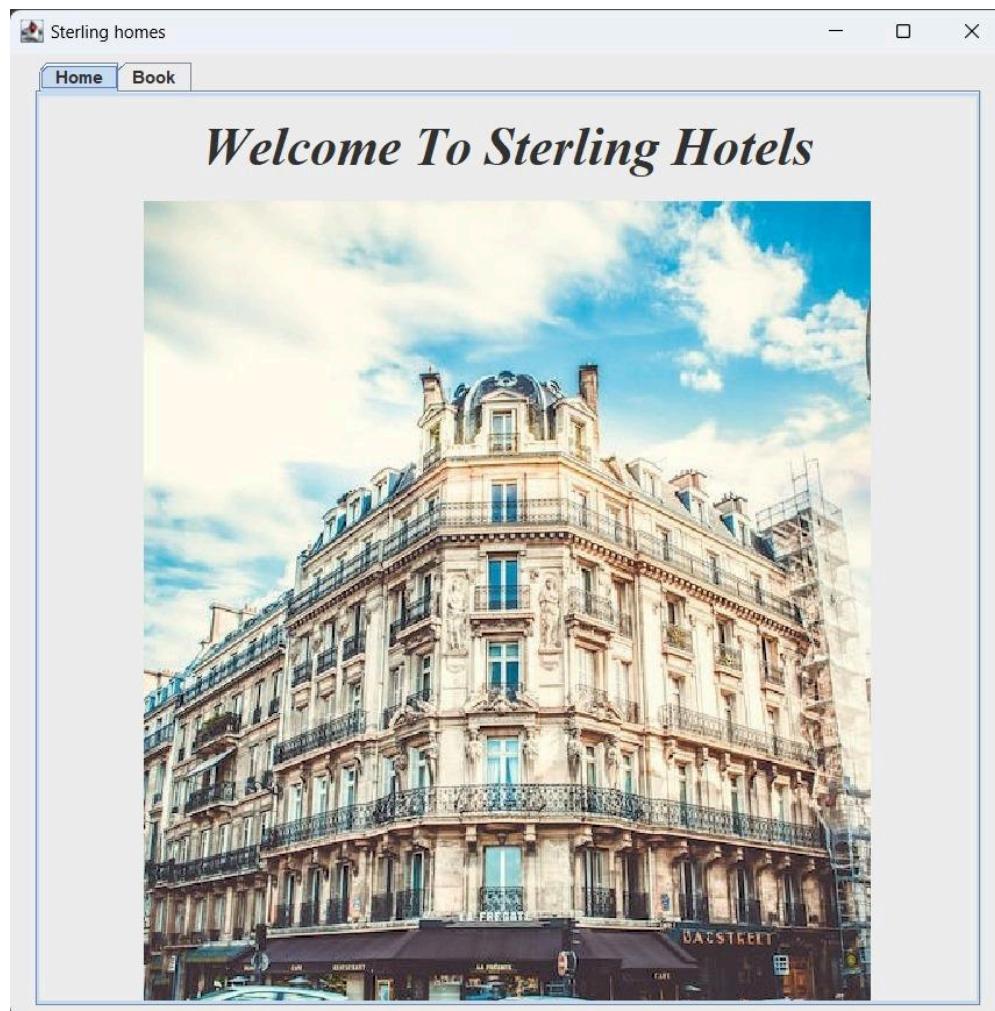
22011M2116 - T. CHAKRI

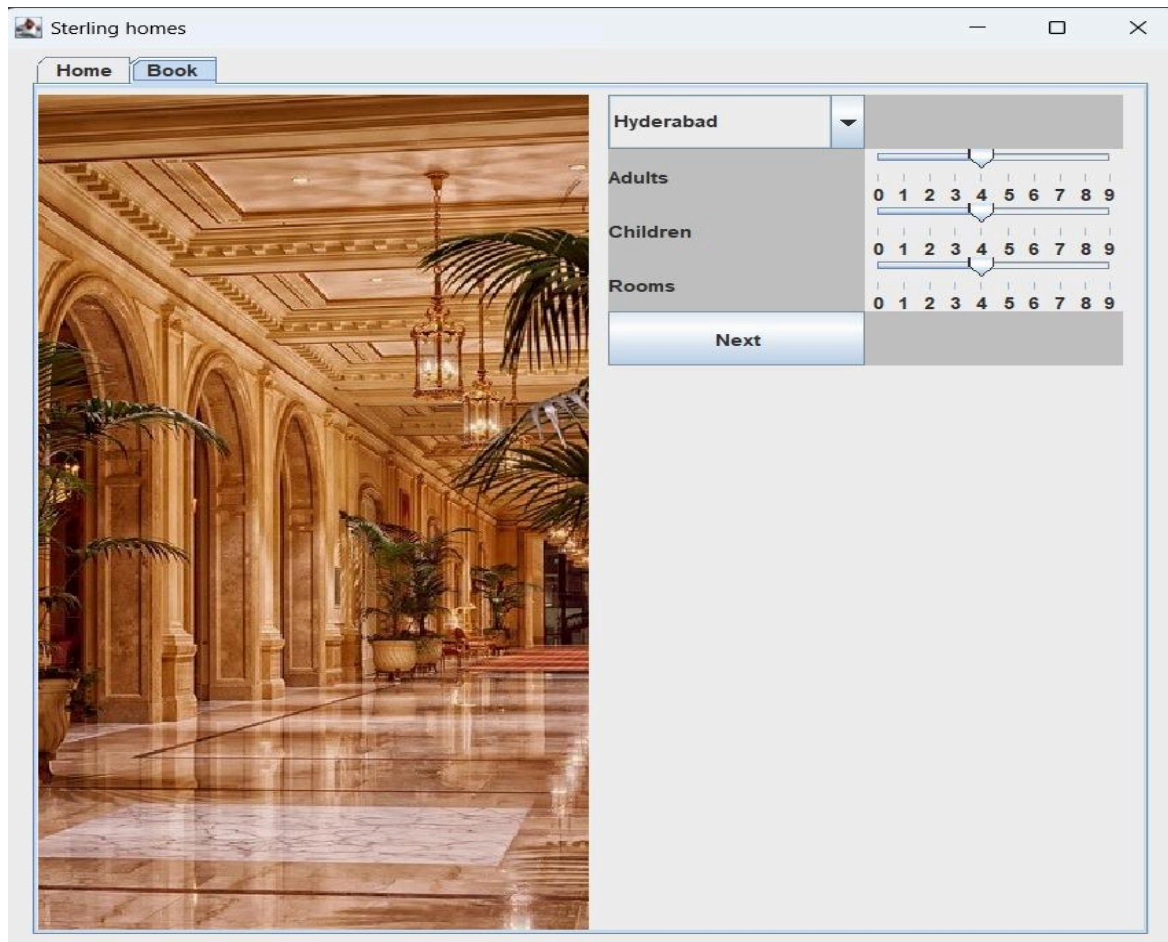
22011M2118 – D. MEGHASHYAM

CSE – IDDMP (SECTION – B)

The Java project, titled "Sterling Homes Booking System," is a comprehensive Swing-based application designed to facilitate hotel reservations and streamline the booking process for Sterling Hotels. The system employs a user-friendly graphical interface, providing an intuitive experience for customers to select hotels, specify booking details, and complete their reservation.

The application is organized into two main panels, "Home" and "Book," embedded within a tabbed interface for seamless navigation. Users are welcomed with an appealing interface featuring images of the hotels. The booking process unfolds through successive steps, incorporating dynamic components and interactive elements.





Key features of the application include:

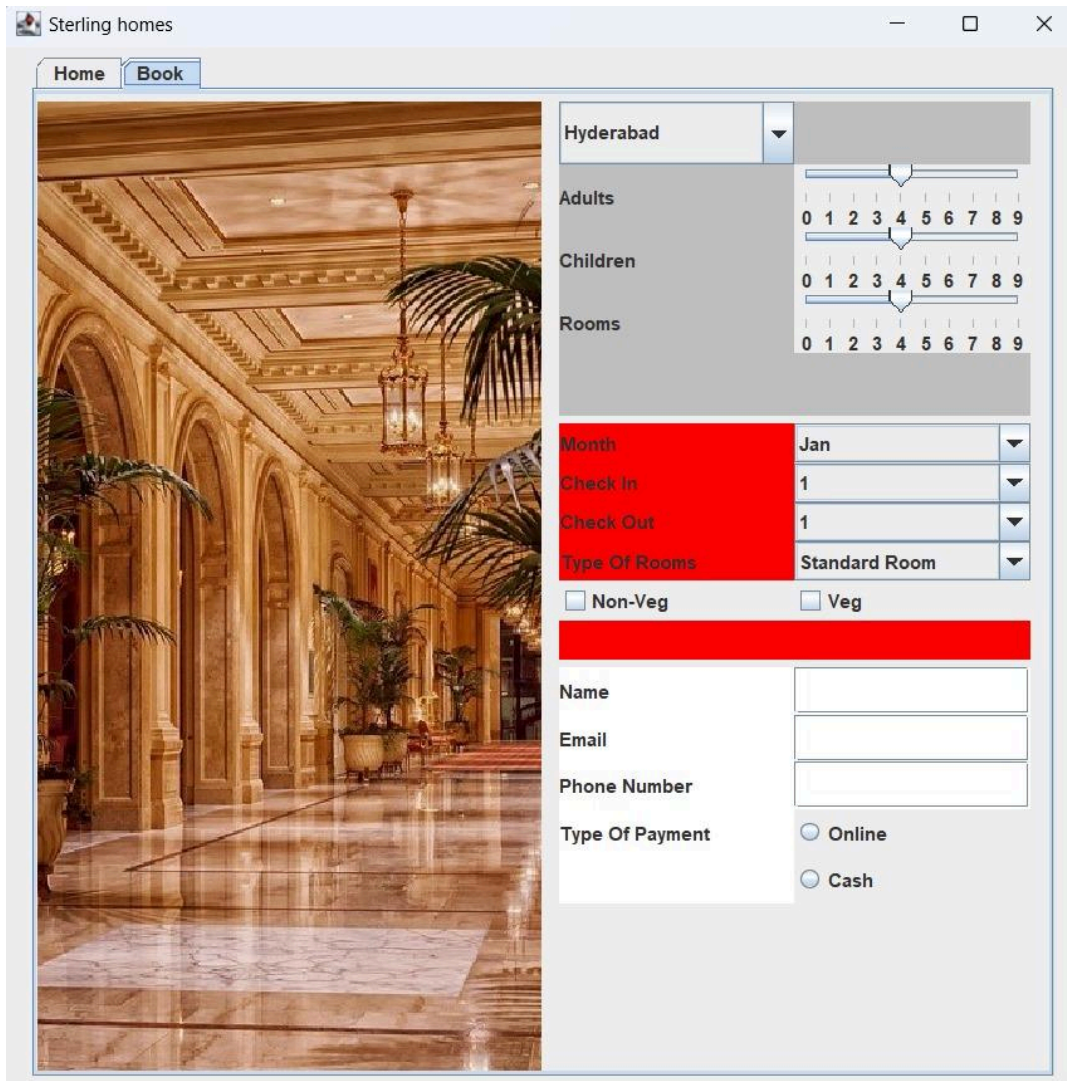
Hotel Selection: A JComboBox allows users to choose from a list of available hotels, including options such as Hyderabad, Goa, Tirupati, and Visakhapatnam.

Booking Details: Users can input the number of adults, children, and rooms using sliders for a personalized booking experience. Additional options include specifying check-in and check-out dates, room types, and meal preferences (Veg/Non-Veg).

Payment Options: The system supports both online and cash payments. Users can choose their preferred mode of payment, with an option to pay online via card.

User Information: The application collects essential user information, including name, email, and phone number, ensuring accurate and secure booking details.

Booking Confirmation: Upon successful completion of the booking process, a dynamically generated receipt is presented, summarizing the user's selections and payment details.



The screenshot displays the 'Sterling homes' application window. It features a navigation bar with 'Home' and 'Book' tabs. The main content area is split: the left side shows a high-quality image of a hotel lobby with ornate architecture and potted plants; the right side contains the booking form. The form includes a city dropdown set to 'Hyderabad', and three numeric input fields for 'Adults', 'Children', and 'Rooms', each with a range from 0 to 9. Below these are date and room type selectors: 'Month' (Jan), 'Check In' (1), 'Check Out' (1), and 'Type Of Rooms' (Standard Room). There are also checkboxes for 'Non-Veg' and 'Veg' options. At the bottom, there are input fields for 'Name', 'Email', and 'Phone Number', followed by radio buttons for 'Type Of Payment' (Online and Cash).

Field	Value
City	Hyderabad
Adults	4
Children	4
Rooms	4
Month	Jan
Check In	1
Check Out	1
Type Of Rooms	Standard Room
Non-Veg	<input type="checkbox"/>
Veg	<input type="checkbox"/>
Name	
Email	
Phone Number	
Type Of Payment	<input type="radio"/> Online <input type="radio"/> Cash

COMPONENTS USED :

- JPanel
- JButton
- JTabbedPane
- JComboBox
- JSlider
- JCheckBox
- JTextField
- JPasswordField
- ImageIcon
- JLabel
- JOptionPane
- JRadioButton
- ButtonGroup

The project emphasizes a modular and organized code structure, utilizing JPanel components, action listeners, item listeners, and various Swing components to create an interactive and visually appealing user interface. The implementation adheres to best practices in Java programming, ensuring code readability, maintainability, and extensibility.

In summary, the "Sterling Homes Booking System" Java project provides a robust platform for users to seamlessly book accommodations, fostering an efficient and enjoyable booking experience for Sterling Hotels.

TESTING :

Sterling homes

Home Book

Hyderabad

Adults: 0 1 2 3 4 5 6 7 8 9

Children: 0 1 2 3 4 5 6 7 8 9

Rooms: 0 1 2 3 4 5 6 7 8 9

Month: Jan

Check In: 1

Check Out: 1

Type Of Rooms: Standard Room

☐ Non-Veg ☐ Veg

Name: asdfadf

Email: asdfasdf

Phone Number: asdfasd

Type Of Payment: ☒ Online ☐ Cash

Enter Card Number: sdfasdfsdf

CVV:

Book

Booking Receipt

Name : shyam Email : saishyamdontha@gmail.co.

Phone Number : +919999999999 Number Of Adults : 2

Number Of Children : 2 Number Of Rooms : 1

Place : Tirupati Month b : Oct

Check In : 3 Check Out : 9

Payment Mode : Cash

