

## **Team: Code\_X**

# **Test Cases ,Error Handling and Edge Cases**

## **1. Student Management**

- 01 Add a new student
- 02 Add a student with an existing student\_id
- 03 View a student's details
- 04 View details of a non-existent student
- 05 Update student details
- 06 Update details of a non-existent student
- 07 Delete a student
- 08 Delete a student with existing allocations

## **2. Hostel Management**

- 01. Add a new hostel
- 02. Add a hostel with an existing hostel\_id
- 03. View hostel details
- 04. View non-existent hostel details

### **3. Room Management**

- 01. Add a new room
- 02. Add a room with duplicate room\_id
- 03. View room details
- 04. View rooms by hostel ID
- 05. Update room details
- 06. Update details of a non-existent room
- 07. Remove a room
- 08. Remove a room with active allocations

### **4. Student Allocation Management**

- 01. Allocate a student to a room
- 02. Allocate a student to a full room
- 03. Allocate a student with an existing allocation
- 04. View allocation by student ID
- 05. View allocation of a non-existent student
- 06. Deallocate a student
- 07. Deallocate a non-allocated student

# Error Handling and Edge Cases

01. Invalid menu choice in the main menu
02. Invalid input type
03. Foreign Key Integrity
04. Handle database connection errors
05. Graceful application exit