**Title: Add Student to Hall Management System**

As a hall administrator, I want to efficiently add a new student to the Hall Management System, ensuring that accurate and up-to-date information is recorded for effective communication and room management.

**Acceptance Criteria:**

**Scenario**: Accessing the system.

Given: I am logged into the Hall Management System.

When: I navigate to the "Add Student" section.

Then: The system should provide a user-friendly interface for entering student details.

**Scenario**: Entering student information.

Given: I am on the "Add Student" page.

When: I enter the student's full name, student ID, contact information, and any other required details.

Then: The system should validate the information for accuracy and completeness.

**Scenario**: Assigning a student to a specific hall or room.

Given: The student information is successfully validated.

When: I choose the hall or room to which the student should be assigned.

Then: The system should update the student's record with the assigned hall or room information.

**Scenario**: Adding emergency contact information.

Given: The basic student information is entered.

When: I have the option to add emergency contact details.

Then: The system should allow me to enter emergency contact names, phone numbers, and any other relevant information.

Scenario: Verifying the entered information.

Given: All required information is entered.

When: I review the details before confirming.

Then: The system should display a summary of the entered information for verification.

**Scenario**: Confirmation and notification.

Given: The information is verified.

When: I confirm the addition of the student.

Then: The system should display a confirmation message, and an email or notification should be sent to the student with their hall assignment details.

Scenario: Handling errors.

Given: Incorrect or incomplete information is entered.

When: I attempt to submit the form.

Then: The system should provide clear error messages indicating the fields that need correction.

**Success:**

Given: I am logged into the Hall Management System.

When: I navigate to the "Add Student" section.

Then: The system provides a user-friendly interface for entering student details.

Given: I am on the "Add Student" page.

When: I enter the student's full name, student ID, contact information, and any other required details.

Then: The system validates the information for accuracy and completeness.

Given: The student information is successfully validated.

When: I choose the hall or room to which the student should be assigned.

Then: The system updates the student's record with the assigned hall or room information.

Given: The basic student information is entered.

When: I have the option to add emergency contact details.

Then: The system allows me to enter emergency contact names, phone numbers, and any other relevant information.

Given: All required information is entered.

When: I review the details before confirming.

Then: The system displays a summary of the entered information for verification.

Given: The information is verified.

When: I confirm the addition of the student.

Then: The system displays a confirmation message, and an email or notification is sent to the student with their hall assignment details.

Given: The process is completed successfully.

When: I navigate to the student list or hall occupancy page.

Then: The system reflects the newly added student with the correct hall assignment.

**Failure:**

Given: I am logged into the Hall Management System.

When: I navigate to the "Add Student" section.

Then: The system does not load the "Add Student" page, displaying an error message or remaining unresponsive.

Given: I am on the "Add Student" page.

When: I enter the student's information, but some required fields are left blank.

Then: The system displays an error message indicating the incomplete fields and prevents me from proceeding until all required information is provided.

Given: The student information is entered, and I choose the hall or room.

When: I attempt to submit the form, but the system encounters a technical error.

Then: The system displays an error message, indicating a failure in processing the request. The user is advised to try again later.

Given: The basic student information is entered.

When: I attempt to add emergency contact details, but the system rejects the information due to invalid format or missing fields.

Then: The system prompts an error message specifying the issue, guiding me to correct the error before proceeding.

Given: All required information is entered.

When: I review the details before confirming, but the system does not display the summary and freezes.

Then: The system fails to provide the confirmation summary, and the user is unable to proceed, necessitating a system refresh or restart.

Given: The information is verified.

When: I confirm the addition of the student.

Then: The system displays a generic error message, indicating a failure in sending the confirmation notification to the student. The user is advised to contact support.

Given: The process is completed successfully.

When: I navigate to the student list or hall occupancy page.

Then: The system does not reflect the newly added student, indicating a failure in updating the records. The user may need to re-enter the information.