

PROJECT TITLE: HOTEL MANAGEMENT SYSTEM

Contents

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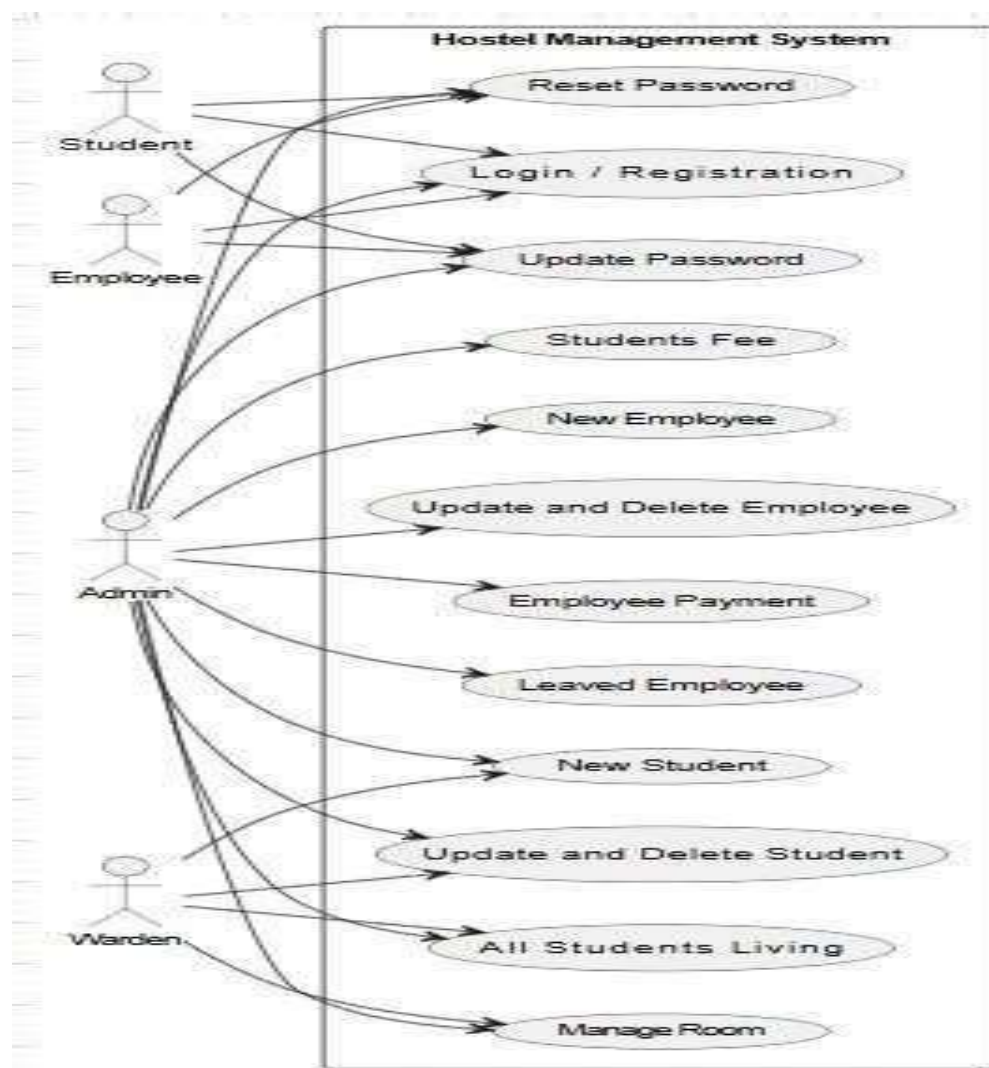
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REGISTRAION NO: SP23-BSE-012



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REGISTRATION NO : SP23-BSE-168

Use Case: New Student Admission in Hostel

Primary Actor: Hostel Warden

Secondary Actors: Admin, Student

Preconditions

- Student has been institutionally admitted.
- Required documents have been submitted.
- System is operational with valid warden access.
- Rooms are available, or a waiting list is active.

Post conditions

- Student is registered in the hostel system.
- Room assigned and marked as occupied.
- Attendance record initialized.
- Welcome notification sent.

Main Success Scenario

1. Admin logs in to the system and navigates to the "Student Management" section.
2. Selects "New Admission" and enters student details along with submitted documents.
3. The system verifies institutional admission.
4. Room is auto-assigned or manually selected.
5. Hostel ID card is generated.
6. System sends confirmation to all parties involved.

Alternative Flows

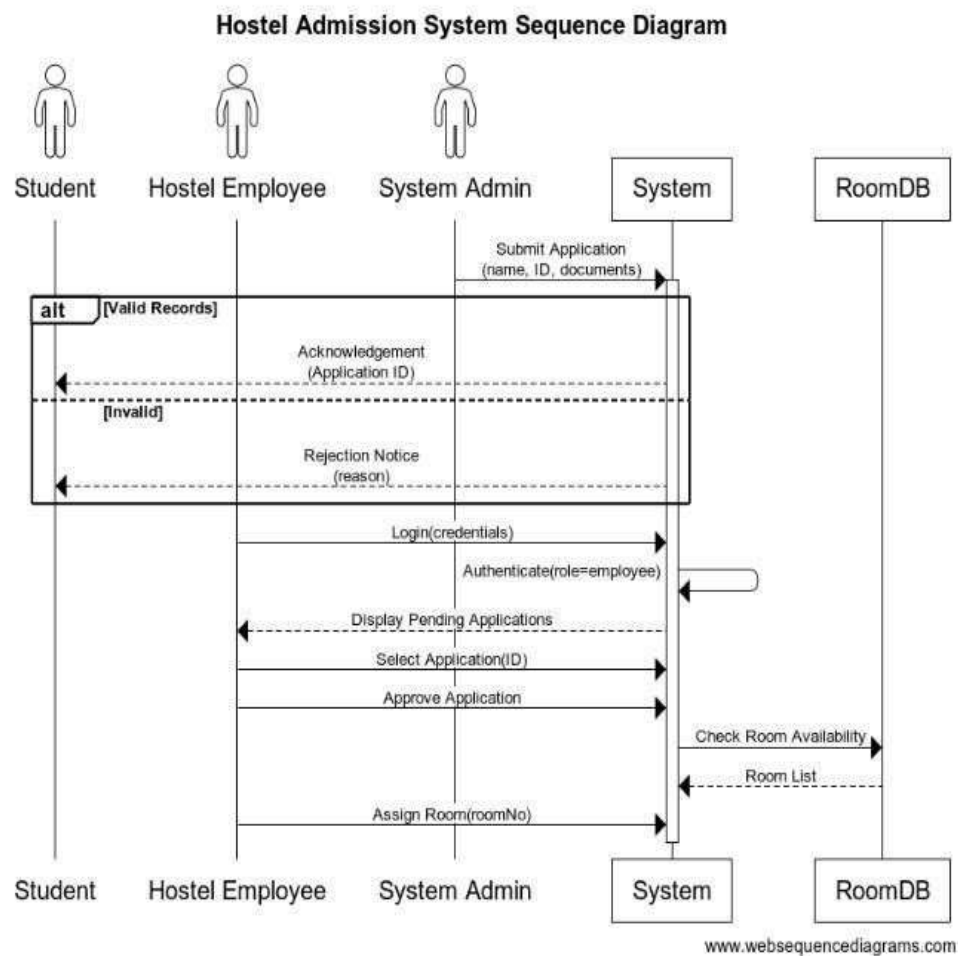
- **A1:** No rooms available → Student is placed on a waitlist.
- **A2:** Missing documents → System flags for completion.

- **A3:** Duplicate entry detected → System alerts warden.

Exception Flows

- **E1:** System crash during entry → Data recovery protocol is activated.
- **E2:** Unauthorized access attempt → Incident is logged and admin is alerted.

System sequence Diagram



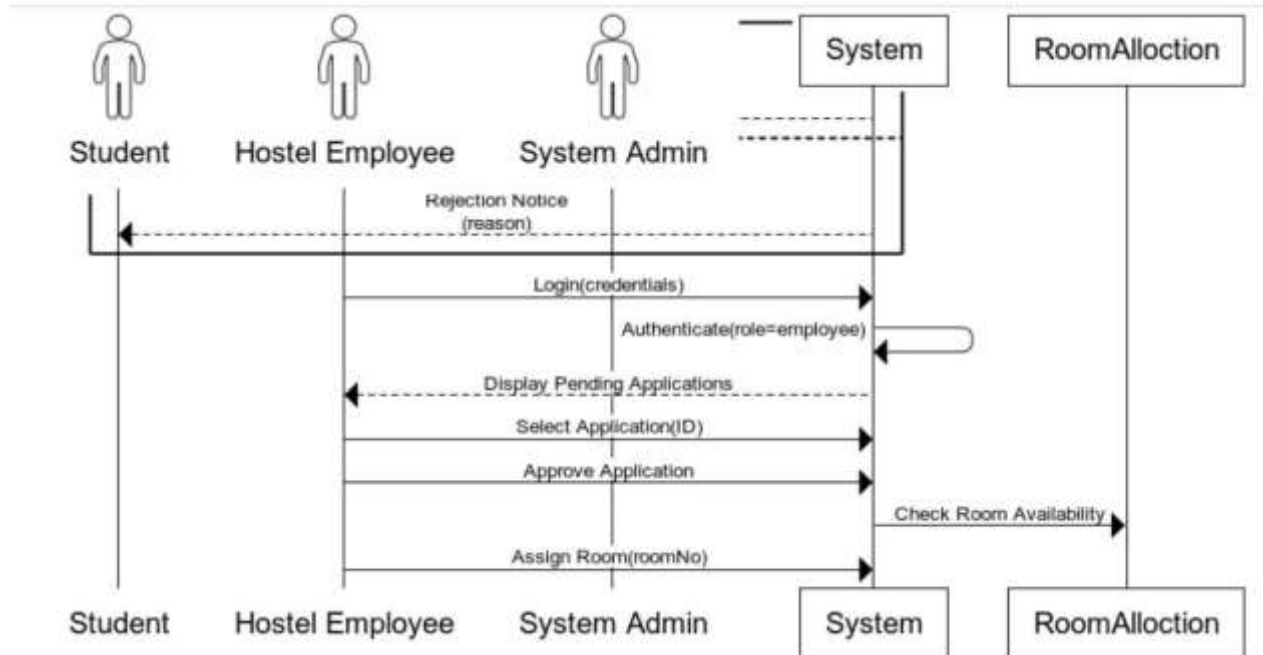


Class Diagram



Update & Delete Student

Use Case Element	Update Student Details	Delete Student Record
Use Case Name	Student Information Update	Student Record Removal
Primary Actor	Hostel Warden	Hostel Warden
Secondary Actors	Admin	Admin
Stakeholders	<ul style="list-style-type: none"> • Student: Needs accurate records • Warden: Requires edit permissions • Admin: Audits changes 	<ul style="list-style-type: none"> • Warden: Needs verification authority • Admin: Ensures data compliance
Preconditions	<ol style="list-style-type: none"> 1. Student exists in system 2. Warden has "Edit" privileges 3. Original records accessible 	<ol style="list-style-type: none"> 1. Student marked for departure 2. All dues cleared 3. Backup exists
Postconditions	<ol style="list-style-type: none"> 1. Records updated with timestamp 2. Change log entry created 3. Notifications sent if critical field modified 	<ol style="list-style-type: none"> 1. Record moved to archive 2. Room status updated 3. All accesses revoked
Main Success Scenario	<ol style="list-style-type: none"> 1. Search student by ID 2. Select "Edit" 3. Modify fields (contact/room) 4. System validates changes 5. Save with digital signature 	<ol style="list-style-type: none"> 1. Verify student eligibility for deletion 2. Confirm room vacated 3. Execute soft-delete 4. Update inventory
Alternative Flows	<p>A1. Room transfer → Update both room records</p> <p>A2. Contact change → SMS verification</p>	<p>A1. Outstanding fees → Block deletion</p> <p>A2. Shared facilities → Cascade update</p>
Exception Flows	<p>E1. Concurrent edit conflict → Merge protocol</p> <p>E2. Invalid data format → Rejection</p>	<p>E1. Dependent records exist → Partial delete</p> <p>E2. System archive full → Alert admin</p>



Student Delete & updat

