 **Software Requirements Specification**

**Hostel Room Allocation Management**



*Submitted By*

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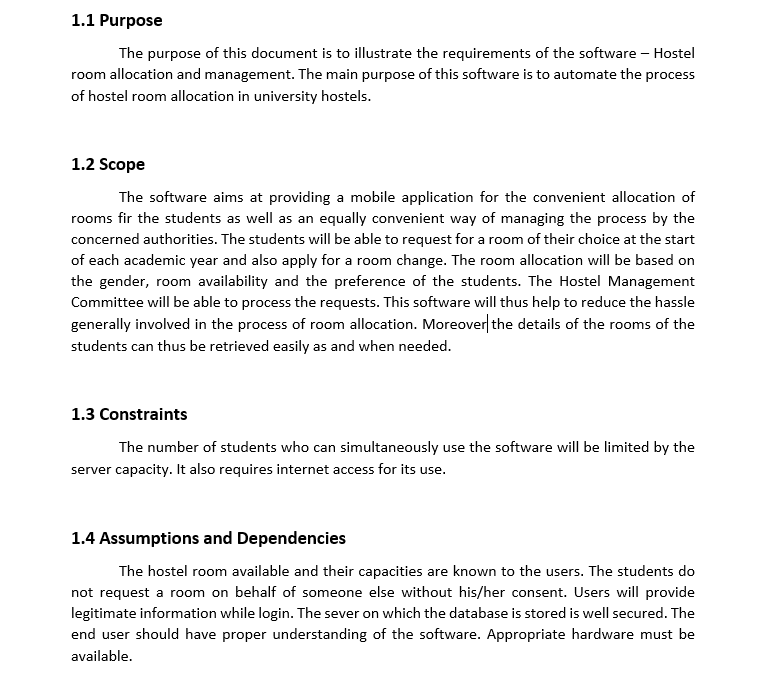
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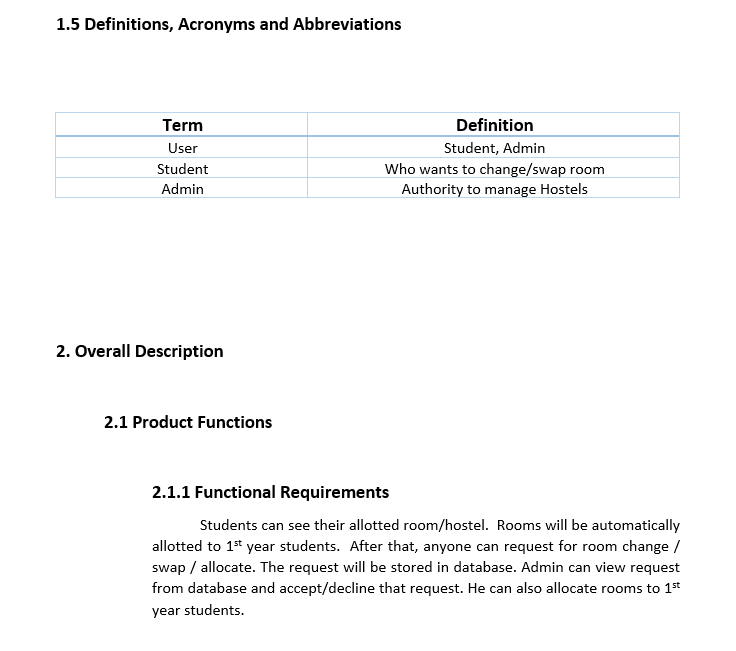
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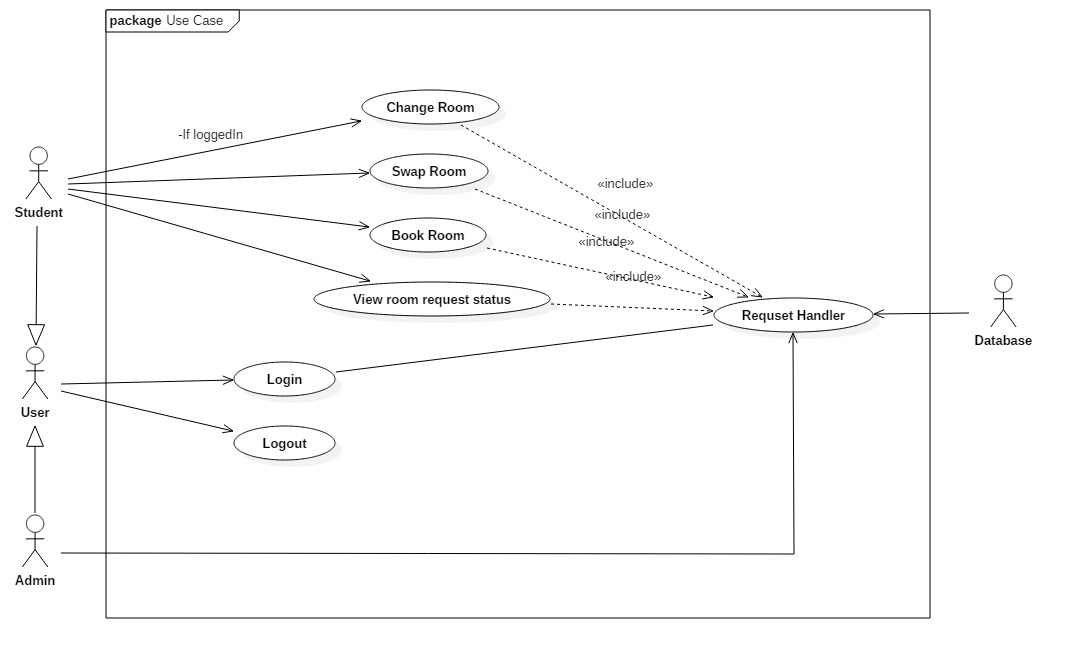
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**1. INTRODUCTION**

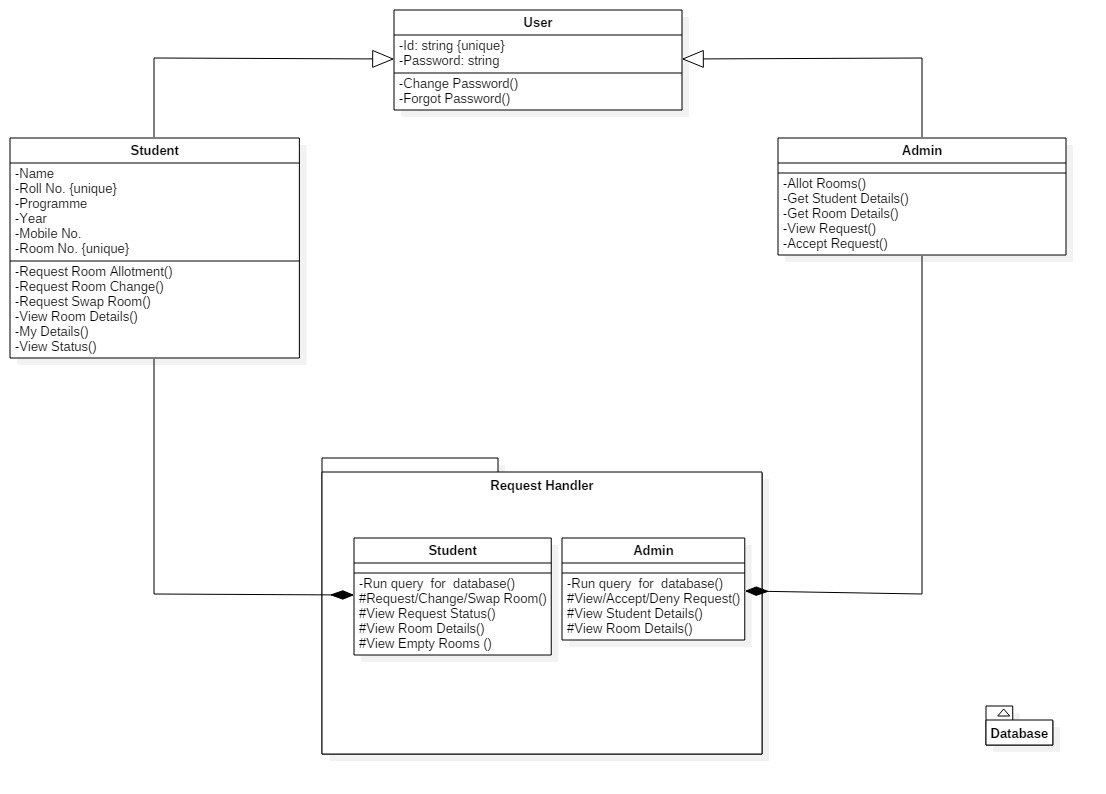


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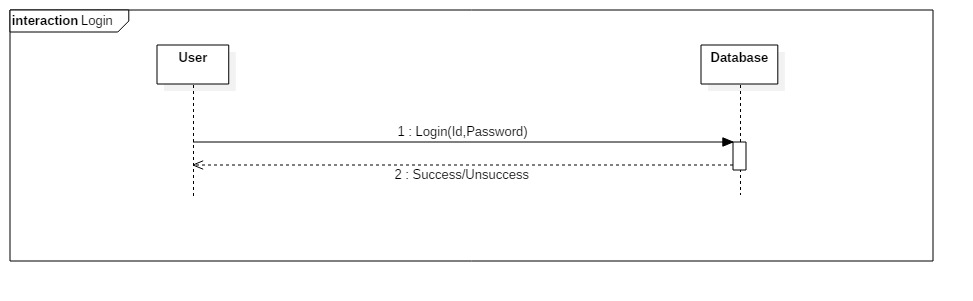
**2.1.1.1 USE-CASE DIAGRAM**

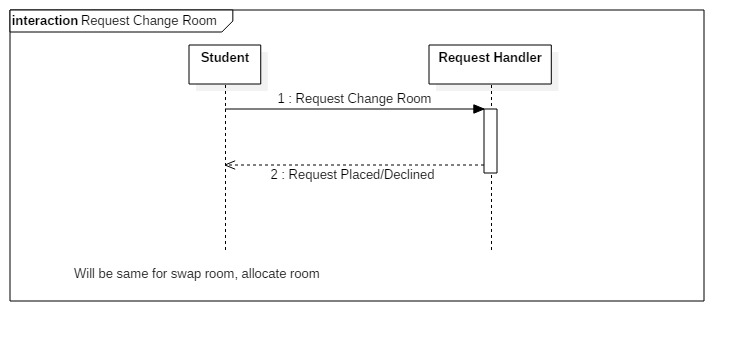


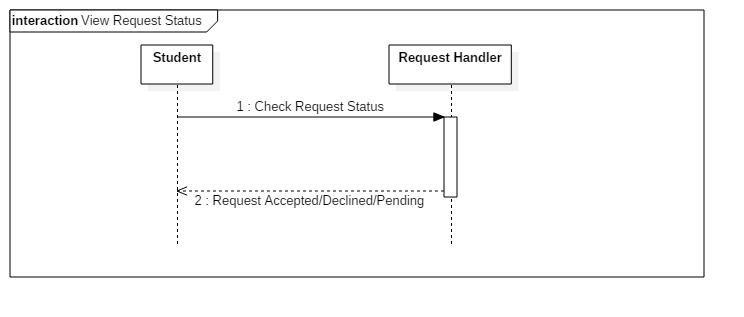
**2.1.1.2 CLASS DIAGRAM**

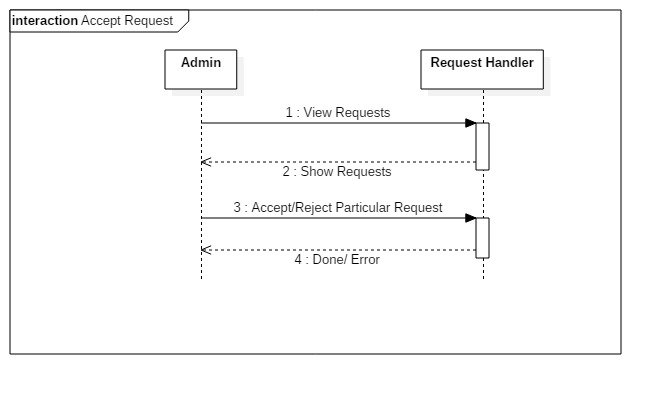


**2.1.1.3 SEQUENCE DIAGRAM**

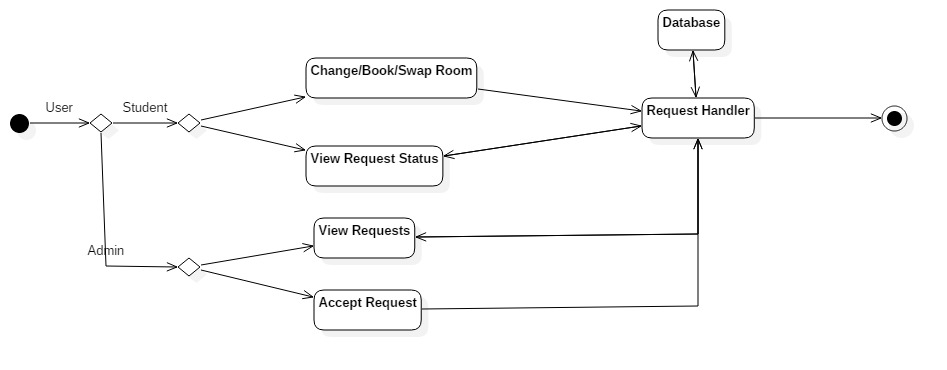




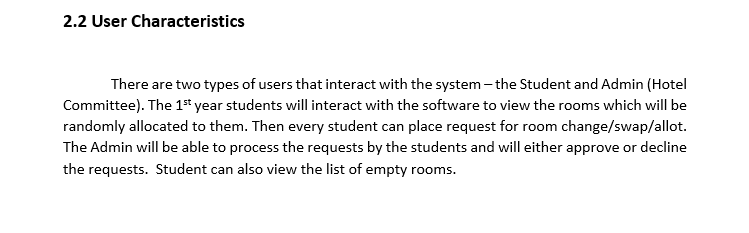




**2.1.1.4 Activity Diagram**



On the other hand, we denounce with righteous indignation and dislike men who are so beguiled and demoralized by the charms of pleasure of the moment, so blinded by desire, that they cannot foresee the pain and trouble that are bound to ensue; and equal blame belongs to those who fail in their duty through weakness of will, which is the same as saying through shrinking from toil and pain. These cases are perfectly simple and easy to distinguish. In a free hour, when our power of choice avoid and when nothing prevents our being able to do what we like best, every pleasure is to be welcomed and every pain avoided. But in certain circumstances and owing to the claims of duty or the obligations of business it will frequently occur that pleasures have to be repudiated and annoyances accepted. The wise man therefore always holds in these matters to this principle of selection: he rejects pleasures to secure other greater pleasures, or else he endures pains to avoid worse pains.

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**3. SPECIFIC REQUIREMENTS**

3.1 Use Case Description

3.1.1

|  |  |
| --- | --- |
| Name | Login |
| Short Description | User will provide id and password to login. |
| Precondition | He must have valid id and password. |
| Postcondition | User will be logged in software |
| Error Situation | If the id and/or password is incorrect or database error. |
| System state in error event | Send user to start state showing an error message. |
| Actor | Student, Admin |
| Trigger |  |
| Standard Process | 1. Enter id + password. 2. Database will check the credentials. 3. Logged in if credentials are correct else throw error and throw user to login page. |
| Alternative Process | Do it without software |

3.1.2

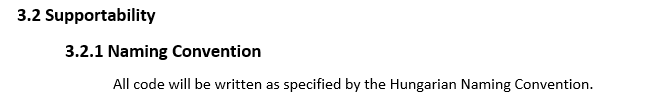
|  |  |
| --- | --- |
| Name | Request change/swap room |
| Short Description | The main purpose of software. |
| Precondition | User should be logged in. |
| Postcondition | Request place and stored in database. |
| Error Situation | Database error |
| System state in error event | Show error message and no request will be placed. |
| Actor | Student |
| Trigger |  |
| Standard Process | 1. Check available rooms. 2. Place room change/swap/allocate request. |
| Alternative Process | Do it without software i.e., offline |

3.1.3

|  |  |
| --- | --- |
| Name | View Request Status |
| Short Description | User can view his/her already placed request status I.e., accepted/denied. |
| Precondition | User should be logged in. |
| Postcondition | He/she will able to view his/her request status. |
| Error Situation | Database error |
| System state in error event | Error Message |
| Actor | Student |
| Trigger | Student view his/her request status. |
| Standard Process | 1. Login 2. View request status |
| Alternative Process | Do it without software i.e., offline |

3.1.4

|  |  |
| --- | --- |
| Name | Admin Accept Request |
| Short Description | Admin will accept request of room change/swap/allocate request(s) of students. |
| Precondition | Admin should be logged in. |
| Postcondition | The decision will be saved to database. |
| Error Situation | Database error |
| System state in error event | Show error message and don't modify database. |
| Actor | Admin (Hostel Committee) |
| Trigger | Admin will accept deny request. |
| Standard Process | 1. Login 2. View requests 3. View available rooms & other requests. 4. Accept/Deny request |
| Alternative Process | Do it without software i.e., offline |



**3.3 Design Constraints**

**3.3.1 Software Language**

All code will be written in c++.

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gBut I must explain to you how all this mistaken idea of denouncing pleasure and praising pain was born and I will give you a complete account of the system, and expound the actual teachings of the great explorer of the truth, the master-builder of human happiness. No one rejects, dislikes, or avoids pleasure itself, because it is pleasure, but because those who do not know how to pursue pleasure rationally encounter consequences that are extremely painful. Nor again is there anyone who loves or pursues or desires to obtain pain of itself, because it is pain, but because occasionally circumstances occur in which toil and pain can procure him some great pleasure. To take a trivial example, which of us ever undertakes laborious physical exercise, except to obtain some advantage from it? But who has any right to find fault with a man who chooses to enjoy a pleasure that has no annoying consequences, or one who avoids a pain that produces no resultant pleasure fdddddddffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff