## Use Case: Add Doctor

| Requirement ID | Name | Description |
|---|---|---|
| REQ_IO101 | Main Menu - Add Doctor | System allows user to add doctor when option 2 is chosen. |
| REQ_IO102 | Invalid Doctor ID | System displays error message "Invalid doctor ID". |
| REQ_IO103 | Invalid Gender | System displays error message "Invalid gender". |
| REQ_IO104 | Doctor Added Successfully | System displays message "Doctor successfully added". |
| REQ_F101 | Add Doctor ID | Functionality to add doctor ID within the range $5000 \leq doctorId \leq 7999$. |
| REQ_F102 | Add Doctor Gender | Functionality to add doctor gender (M/F). |

## Use Case: Add Patient

| Requirement ID | Name | Description |
|---|---|---|
| REQ_IO201 | Main Menu - Add Patient | System allows user to add patient when option 4 is chosen. |
| REQ_IO202 | Invalid Patient ID | System displays error message "Invalid patient ID". |
| REQ_IO203 | Invalid Illness | System displays error message "Illness cannot be empty". |
| REQ_IO204 | Patient Added Successfully | System displays message "Patient successfully added". |
| REQ_F201 | Add Patient ID | Functionality to add patient ID within the range $1000 \leq patientID \leq 3999$. |
| REQ_F202 | Add Patient Illness | Functionality to ensure illness length is greater than 0. |

## Use Case: Add Medicine

| Requirement ID | Name | Description |
| --- | --- | --- |
| REQ_IO301 | Main Menu - Add Medicine | System allows user to add medicine when option 5 is chosen. |
| REQ_IO302 | Invalid Medicine Code | System displays error message "Invalid medicineCode". |
| REQ_IO303 | Invalid Price | System displays error message "Invalid price". |
| REQ_IO304 | Medicine Added Successfully | System displays message "Medicine added successfully". |
| REQ_F301 | Add Medicine Code | Functionality to add medicine code within the range $4000 \leq medicineCode \leq 4514$. |
| REQ_F302 | Add Medicine Price | Functionality to add medicine price within the range $1.00 \leq price \leq 50.00$. |

## Use Case: Add Nurse

| Requirement ID | Name | Description |
| --- | --- | --- |
| REQ_IO401 | Main Menu - Add Nurse | System allows user to add nurse when option 3 is chosen. |
| REQ_IO402 | Invalid Nurse ID | System displays error message "Invalid nurse ID". |
| REQ_IO403 | Invalid Gender | System displays error message "Invalid gender". |
| REQ_IO404 | Nurse Added Successfully | System displays message "Nurse successfully added". |
| REQ_F401 | Add Nurse ID | Functionality to add nurse ID within the range $8000 \leq nurseId \leq 9999$. |
| REQ_F402 | Add Nurse Gender | Functionality to add nurse gender (M/F). |

**Use Case: Add Room**

| Requirement ID | Name | Description |
| --- | --- | --- |
| REQ_IO501 | Main Menu - Add Room | System allows user to add room when option 1 is chosen. |
| REQ_IO502 | Invalid Room Number | System displays error message "Invalid room number". |
| REQ_IO503 | Invalid Charges | System displays error message "Invalid charges". |
| REQ_IO504 | Room Added Successfully | System displays message "Room successfully added". |
| REQ_F501 | Add Room Number | Functionality to add room number within the range 1 ≤ roomNo ≤ 399. |
| REQ_F502 | Add Room Charges | Functionality to add room charges within the range 100 ≤ charges ≤ 2000. |

# Requirements List

| Requirement ID | Name | Description |
|---|---|---|
| REQ_IO101 | Main Menu - Add Doctor | System allows user to add doctor when option 2 is chosen. |
| REQ_IO102 | Invalid Doctor ID | System displays error message "Invalid doctor ID". |
| REQ_IO103 | Invalid Gender | System displays error message "Invalid gender". |
| REQ_IO104 | Doctor Added Successfully | System displays message "Doctor successfully added". |
| REQ_F101 | Add Doctor ID | Functionality to add doctor ID within the range 5000 ≤ doctorId ≤ 7999. |
| REQ_F102 | Add Doctor Gender | Functionality to add doctor gender (M/F). |
| REQ_IO201 | Main Menu - Add Patient | System allows user to add patient when option 4 is chosen. |
| REQ_IO202 | Invalid Patient ID | System displays error message "Invalid patient ID". |
| REQ_IO203 | Invalid Illness | System displays error message "Illness cannot be empty". |
| REQ_IO204 | Patient Added Successfully | System displays message "Patient successfully added". |
| REQ_F201 | Add Patient ID | Functionality to add patient ID within the range 1000 ≤ patientID ≤ 3999. |
| REQ_F202 | Add Patient Illness | Functionality to ensure illness length is greater than 0. |
| REQ_IO301 | Main Menu - Add Medicine | System allows user to add medicine when option 5 is chosen. |
| REQ_IO302 | Invalid Medicine Code | System displays error message "Invalid medicineCode". |
| REQ_IO303 | Invalid Price | System displays error message "Invalid price". |
| REQ_IO304 | Medicine Added Successfully | System displays message "Medicine added successfully". |

| REQ_F301 | Add Medicine Code | Functionality to add medicine code within the range 4000 ≤ medicineCode ≤ 4514. |
|---|---|---|
| REQ_F302 | Add Medicine Price | Functionality to add medicine price within the range 1.00 ≤ price ≤ 50.00. |
| REQ_IO401 | Main Menu - Add Nurse | System allows user to add nurse when option 3 is chosen. |
| REQ_IO402 | Invalid Nurse ID | System displays error message "Invalid nurse ID". |
| REQ_IO403 | Invalid Gender | System displays error message "Invalid gender". |
| REQ_IO404 | Nurse Added Successfully | System displays message "Nurse successfully added". |
| REQ_F401 | Add Nurse ID | Functionality to add nurse ID within the range 8000 ≤ nurseId ≤ 9999. |
| REQ_F402 | Add Nurse Gender | Functionality to add nurse gender (M/F). |
| REQ_IO501 | Main Menu - Add Room | System allows user to add room when option 1 is chosen. |
| REQ_IO502 | Invalid Room Number | System displays error message "Invalid room number". |
| REQ_IO503 | Invalid Charges | System displays error message "Invalid charges". |
| REQ_IO504 | Room Added Successfully | System displays message "Room successfully added". |
| REQ_F501 | Add Room Number | Functionality to add room number within the range 1 ≤ roomNo ≤ 399. |
| REQ_F502 | Add Room Charges | Functionality to add room charges within the range 100 ≤ charges ≤ 2000. |