TEST DESIGN SPECIFICATION

KAU Hospital System (KHS)
Independence Verification and Validation

Version : 1.0.0
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Project Title: KHS Independent Verification and Validation		
Date:06/04/2024	Test Plan ID: KHS_TDS_1_1.0.0	

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1.0 Introduction

1.1 Purpose

This test design specification support the following objectives:

1. To identify the test items covered
2. To further refine the test approach from Test Plan
3. To define the sources of the information used to prepare the plan
4. To identify the general cases of test to be executed

1.2 Scope

This test design specification covers Session Verification features developed in KHS.

1.3 References

The following IEEE standards have been referenced in preparation of this document:

1. IEEE 829-1998 Standard for Software and System Test Documentation
2. IEEE 829-2008 Standards for Software and System Test Documentation

The following documents provide the test basis for this test design:

1. KHS Software Requirement Specifications (KHS_SRS_1.0)
2. KHS System Design Specifications (KHS_SDS_1.0)

The following GitHub repositories provide the code basis for this test design:

1. rahmaAlghalib. (2022, Aug 8). GitHub - rahmaAlghalib/KAU-Hospital-System: Java Hospital management system. GitHub. https://github.com/rahmaAlghalib/KAU-Hospital-System

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2.0 Test Design

2.1 Features to be Tested

The following table contains the features to be tested based on KHS Software Requirement Specifications (SRS) for this iteration. Listed together are the function ID and its corresponding functions and estimated risk level.

Function Id	Functions	Risk Level
F001	Add Doctor	High
F002	Add Patient	High
F003	Add Medicine	Medium
F004	Add Nurse	Medium
F005	Add Room	Medium

Table 2.1 Features To Be Tested

2.2 Approach Refinements

As discussed in Test Plan (KHS_TP_1.0.0), test cases for KHS will be designed using four techniques which are covered in this section. Techniques are applied based on suitability of techniques according to the nature of features.

The techniques that will be applied are as follows:

i. Equivalent partitioning
ii. Boundary value analysis
iii. Decision table testing
Iv. Use Case Testing

Nature of feature as below:

2.2.1 F001 Add Doctor

Four techniques are identified for designing test for this feature, including:

i. Equivalent partitioning
ii. Boundary value analysis
iii. Decision table testing
Iv. Use Case Testing

Equivalence partitioning is used to

2.2.1.1 Equivalence Partitioning

Equivalence classes for id

D1: 5000 ≤ doctorId ≤ 7999
D2: doctorId ＜ 5000
D3: doctorId > 7999

Equivalence classes for gender

G1: gender ∈ {‘F’,’M’}
G2: gender ∉ {‘F’,’M’}

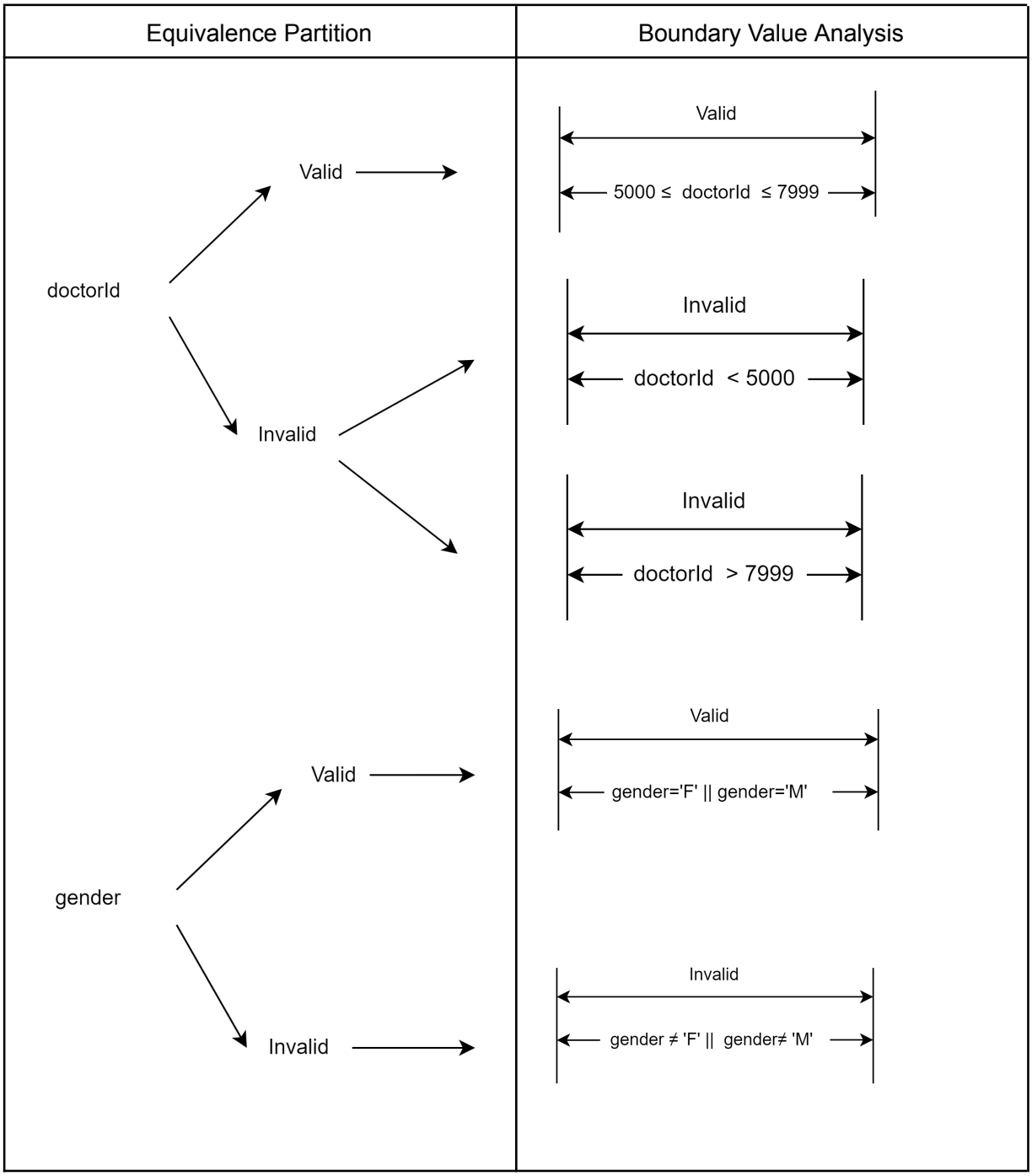

Figure 2.2.1.1a Add Doctor Equivalence Partitioning & Boundary Value Analysis

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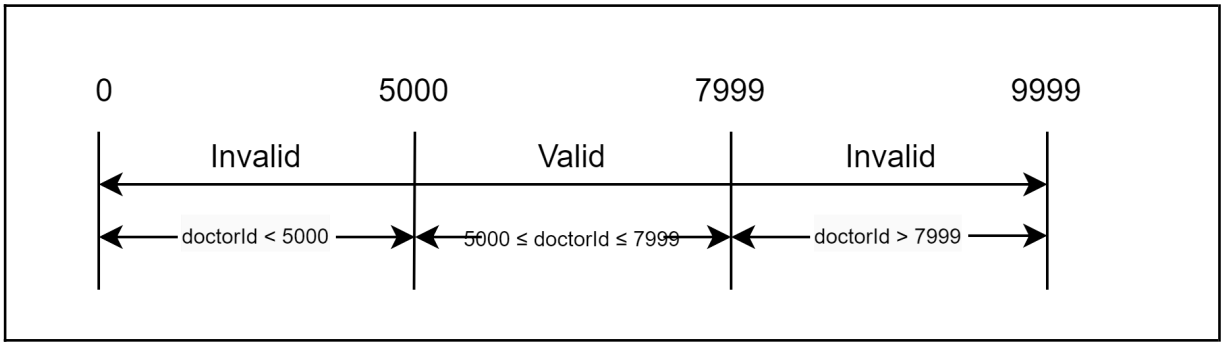
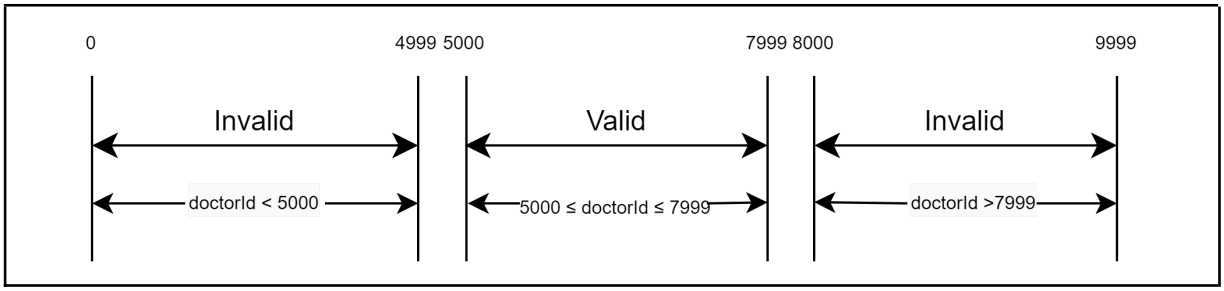


Figure 2.2.1.1b Add Doctor Equivalence Partitions

Test Condition ID	Test Condition	Test Coverage ID	Test Coverage	Example of Test Data
TCON-01-001	doctorId＜ 5000	TCOV-01-001	doctorId＜ 5000 (Invalid)	999
TCON-01-002	5000 ≤ doctorId ≤ 7999	TCOV-01-002	5000 ≤ doctorId ≤ 7999 (Valid)	1234
TCON-01-003	doctorId＞ 7999	TCOV-01-003	doctorId ＞ 7999 (Invalid)	8888
TCON-01-004	Valid doctorId	TCOV-01-004	Valid doctorId (valid output)	1234
TCON-01-005	Invalid doctorId	TCOV-01-005	Invalid doctorId (Invalid output)	12346
TCON-01-006	gender ∉ {‘F’,’M’}	TCOV-01-006	gender ∉ {‘F’,’M’} (invalid)	B
TCON-01-007	gender ∈ {‘F’,’M’}	TCOV-01-007	gender ∈ {‘F’,’M’} (valid)	F
TCON-01-008	Valid gender	TCOV-01-008	valid gender (valid output)	F
TCON-01-009	Invalid gender	TCOV-01-009	Invalid gender (invalid output)	B

Table 2.2.1.1 Add Doctor Equivalence Partitioning Test Conditions & Coverage

2.2.1.2 Boundary Value Analysis



2.2.1.2 Add Doctor Boundary Value Analysis

EP1: 5000 ≤ doctorId ≤ 7999
EP2: 0 ≤ doctorId ≤ 4999
EP3: 8000 ≤ doctorId ≤ 9999

Test Condition ID	Test Condition	Test Coverage ID	Test Coverage	Example of Test Data
TCON-01-010	doctorId = 4999	TCOV–01-010	doctorId = 4999 (Invalid)	4999
TCON-01-011	doctorId = 5000	TCOV–01-011	doctorId = 5000 (Valid)	5000
TCON-01-012	doctorId = 5001	TCOV–01-012	doctorId = 5001 (Valid)	5001
TCON-01-013	doctorId = 7998	TCOV–01-013	doctorId = 7998 (Valid)	7998
TCON-01-014	doctorId = 7999	TCOV–01-014	doctorId = 7999 (Valid)	7999
TCON-01-015	doctorId = 8001	TCOV–01-015	doctorId = 8001(Invalid)	8001
TCON-01-004	Valid doctorId	TCOV–01-004	Valid doctorId (Valid output)	5000
TCON-01-005	Invalid doctorId	TCOV–01-005	Invalid doctorId (Invalid output)	8001

Table 2.2.1.2 Add Doctor Boundary Value Analysis Test Conditions & Coverage

2.2.1.3 Decision Table Testing

Test Condition ID	Test Condition
TCON-01-016	doctorId
TCON-01-017	gender = ‘F’
TCON-01-018	gender = ‘M’
TCON-01-019	Display “Invalid doctor ID”
TCON-01-020	Display “Invalid gender”
TCON-01-021	Display “Doctor successfully added”

Table 2.2.1.3a Add Doctor Decision Table Test Conditions

Condition	1	2	3	4	5
doctorId	5000 ≤ doctorId ≤ 7999	5000 ≤ doctorId ≤ 7999	5000 ≤ doctorId ≤ 7999	doctorId ＜ 5000	doctorId > 7999
gender = ‘F’	Y	N	N	-	-
gender = ‘M’	N	Y	N	-	-
Output					
Display “Invalid ID”				**X**	**X**
Display “Invalid gender”			**X**		
Display “Doctor successfully added”	**X**	**X**			

Table 2.2.1.3b Add Doctor Decision Table

2.2.1.4 Use Case Testing

Use Case ID	UC001	
Use Case	F001 Add Doctor	
Purpose	To add doctor for database	
Actor	Hospital Administrator	
Description	The hospital administrator starts by providing the information needed to add nurses into the database. If all valid requirements are input, the doctor will be added successfully into the database.	
Precondition	System prompt options	
Post-condition	Doctor successfully added to the database	
Scenario Name	**Step**	**Action**
Main Flow	1	System choose option ‘1’
	2	User input doctorId
	3	User input gender
	4	System verify valid doctorId
	5	System verify gender
	6	System add doctor to the database
	7	System displays message “Doctor successfully added”
Alternate Flow - Invalid doctorId	2.1	User input invalid doctorId
	2.2	System display error message “Invalid doctor ID”
	2.3	The use case end
Alternate Flow - Invalid Gender	3.1	User input invalid doctorId
	3.2	System displays error message “Invalid gender”
	3.3	The use case end

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Rules	None
Note	None

Table 2.2.1.4a Add Doctor Use Case

Test Condition ID	Test Condition	Test Coverage ID	Test Coverage	Test Data
TCON-01-022	Main flow	TCOV-01-022	Main Flow	Valid doctorId = 5555 Valid Gender = ‘F’
TCON-01-023	Alternate Flow - Invalid doctorId	TCOV-01-023	Alternate Flow - Invalid doctorId	Invalid doctorId = 1234
TCON-01-024	Alternate Flow - Invalid gender	TCOV-01-024	Alternate Flow - Invalid gender	Valid doctorId = 5555 Invalid Gender = ‘B’

Table 2.2.1.4b Add Doctor Use Case Test Conditions & Coverage

2.2.2 F002 Add Patient

Four techniques are identified for designing test for this feature, including:

i. Equivalent partitioning
ii. Boundary value analysis
iii. Decision table testing
Iv. Use Case Testing

Equivalence partitioning is used to

2.2.2.1 Equivalence Partitioning

Equivalence classes for patientID

A1 : 1000 ≤ patientID ≤ 3999
A2 : patientID < 1000
A3 : patientID > 3999

Equivalence classes for illness

C1 : illnessLength > 0
C2 : illnessLength ≤ 0

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Equivalence Partition	Boundary Value Analysis

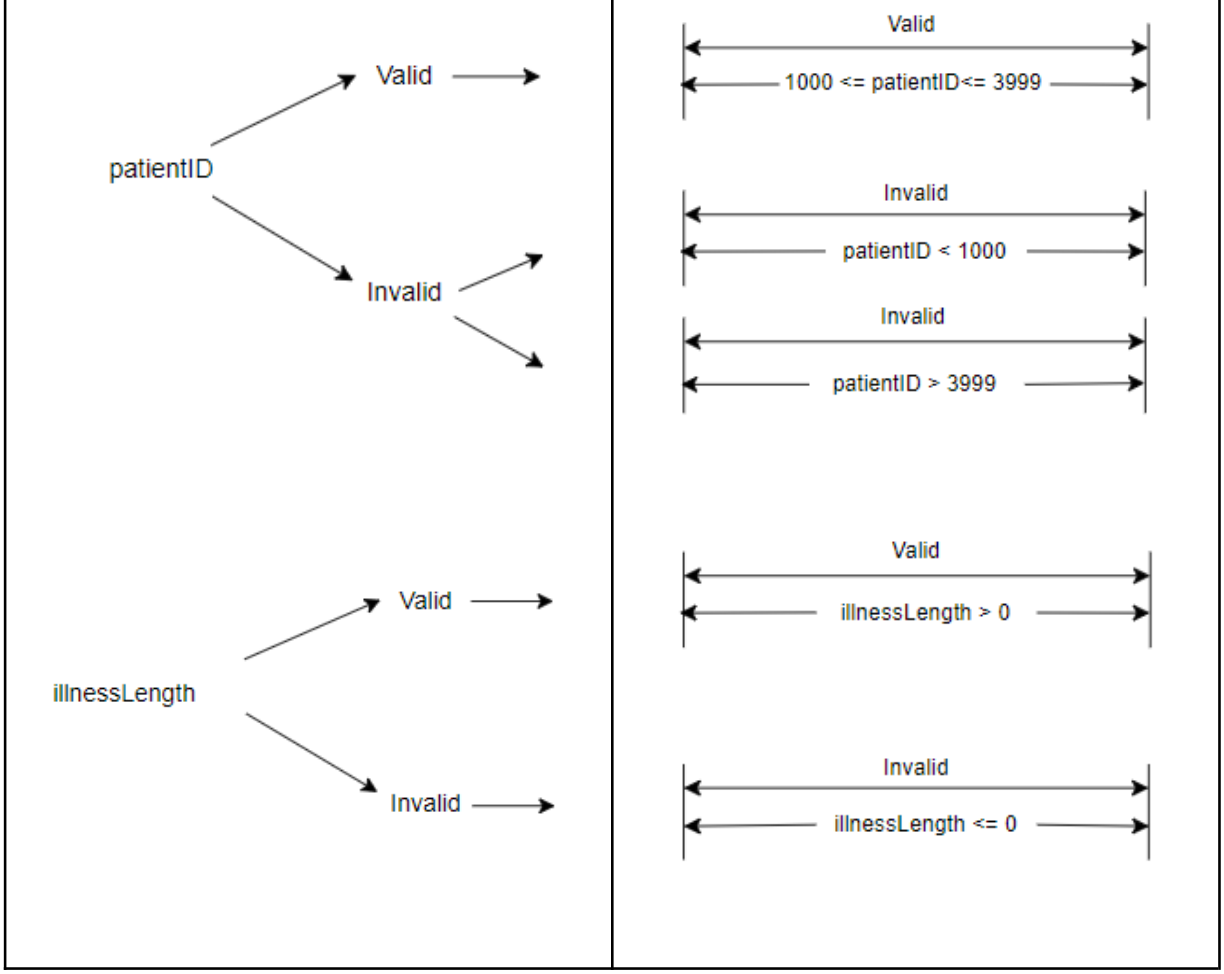

Figure 2.2.2.1a Add Doctor Equivalence Partitioning & Boundary Value Analysis

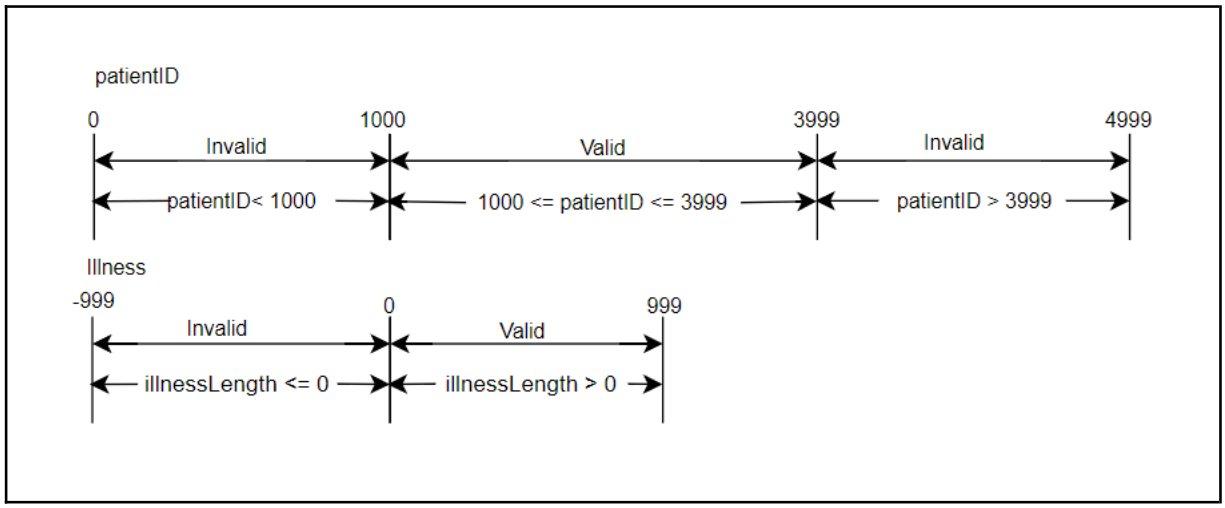

Figure 2.2.2.1b Add Patient Equivalence Partitioning

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Test Condition ID	Test Condition	Test Coverage ID	Test Coverage	Example of Test Data
TCON-02-001	1000 ≤ patientID ≤ 3999	TCOV-02-001	1000 ≤ patientID ≤ 3999 (Valid)	3870
TCON-02-002	patientID ＜ 1000	TCOV-02-002	patientID ＜ 1000 (Invalid)	600
TCON-02-003	patientID ＞ 3999	TCOV-02-003	patientID > 3999 (Invalid)	5678
TCON-02-004	Valid patientID	TCOV-02-004	Valid patientID (valid output)	1234
TCON-02-005	Invalid patientID	TCOV-02-005	Invalid patientID (invalid output)	123
TCON-02-006	illnessLength > 0	TCOV-02-006	illnessLength > 0 (Valid)	‘Flu’
TCON-02-007	illnessLength <= 0	TCOV-02-007	illnessLength <= 0 (Invalid)	‘’
TCON-02-008	Valid illnessLength	TCOV-02-008	Valid illnessLength (valid output)	‘Fever’
TCON-02-009	Invalid illnessLength	TCOV-02-009	Invalid illnessLength (Invalid output)	‘’

Table 2.2.2.1 Add Patient Equivalence Partitioning Test Condition & Coverage

2.2.2.2 Boundary Value Analysis

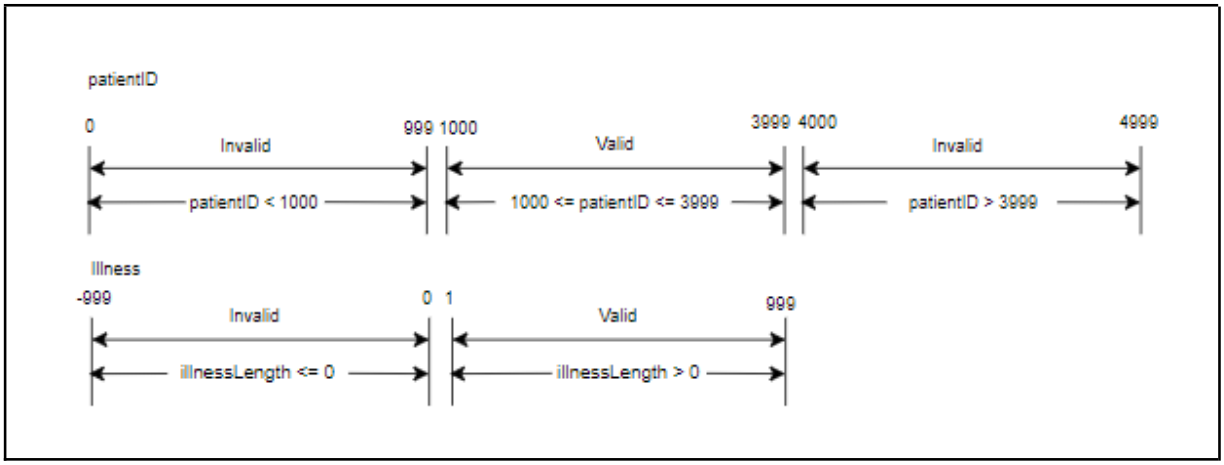

Figure 2.2.2.2 Add Patient Boundary Value Analysis

EP1 : 1000 ≤ patientID≤ 3999
EP2 :patientID＜ 1000
EP3 :patientID > 3999

EP4 : illnessLength > 0
EP5 : illnessLength ≤ 0

Test Condition ID	Test Condition	Test Coverage ID	Test Coverage	Example of Test Data
TCON-02-010	patientID = 999	TCOV-02-010	patientID = 999 (Invalid)	999
TCON-02-011	patientID = 1000	TCOV-02-011	patientID= 1000 (valid)	1000
TCON-02-012	patientID = 1001	TCOV-02-012	patientID = 1001 (valid)	1001
TCON-02-013	patientID = 3998	TCOV-02-013	patientID= 3998 (valid)	3998

TCON-02-014	patientID= 3999	TCOV-02-014	patientID = 3999 (valid)	3999
TCON-02-015	patientID= 4000	TCOV-02-015	patientID = 4000 (invalid)	4000
TCON-02-004	Valid patientID	TCOV-02-016	Valid output	1234
TCON-02-005	Invalid patientID	TCOV-02-017	Invalid output	4000
TCON-02-018	illnessLength = 0	TCOV-02-018	illnessLength = 0 (invalid)	‘’
TCON-02-019	illnessLength = 1	TCOV-02-019	illnessLength =1 (valid)	‘F’
TCON-02-008	Valid illnessLength	TCOV-02-020	Valid output	‘Cold’
TCON-02-009	Invalid illnessLength	TCOV-02-021	Invalid output	‘’

2.2.2.3 Decision Table Testing

Test Condition ID	Test Condition
TCON-02-022	patientID
TCON-02-023	IllnessLength
TCON-02-024	Displays an error message “Invalid patient ID”
TCON-02-025	Displays an error message “Illness cannot be null”
TCON-02-026	Displays message “Patient successfully added”

Condition	1	2	3	4
patientID	<1000	1000 ≤ ID ≤ 3999	1000 ≤ ID ≤ 3999	ID > 3999
Illness Length	-	≤ 0	> 0	-
Output				
Displays an error message “Error: Invalid patientID”	X			x
Displays an error message “Error: Illness cannot be empty.”		X		
Displays message “Patient successfully added”			X	

2.2.2.4 Use Case Testing

Use Case ID	UC002	
Use Case	F002 Add Patient	
Purpose	To add a new patient to the hospital database	
Actor	Hospital Administrator	
Description	The hospital administrator provides the information needed to add a new patient to the hospital database. The system verifies the provided information and, if valid, adds the new patient to the database and updates the system accordingly.	
Precondition	System prompt options	
Post-condition	Patient successfully added to the database	
Scenario Name	**Step**	**Action**
Main Flow	1	User choose option ‘4’
	2	User input patientID
	3	User input Illness
	4	System verify valid patientID
	5	System verify valid Illness
	6	System adds new patient to the database
	7	System displays message “Patient successfully added”
Alternate Flow - Invalid ID	4.1	User input invalid patientID
	4.2	System displays error message”Invalid patient ID”
	4.3	The use case end
Alternate Flow - Invalid illness	5.1	User input invalid Illness
	5.2	System displays an error message “Illness cannot be empty.”
	5.3	The use case end

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Rules	None
Note	None

Table 2.2.2.4a Session Verification Use Case

Test Condition ID	Test Condition	Test Coverage ID	Test Coverage	Test Data
TCON-02-027	Main Flow	TCOV-02-027	Main Flow	Valid patientID = 1234 Valid Illness = ‘FLu’
TCON-02-028	Alternate Flow - Invalid patientID	TCOV-02-028	Alternate Flow - Invalid patientID	Invalid patientID = 124 Valid Illness = ‘Flu’
TCON-02-029	Alternate Flow - Invalid Illness	TCOV-029	Alternate Flow - Invalid Illness	Valid patientID = 1234 Invalid Illness = ‘’

Table 2.2.2.4b Session Verification Use Case Test Conditions & Coverage

2.2.3 F003 Add Medicine

Four techniques are identified for designing test for this feature, including:

i. Equivalent partitioning
ii. Boundary value analysis
iii. Decision table testing
Iv. Use Case Testing

Equivalence partitioning is used to split medicineCode and price into possible partitions for testing. Boundary value analysis will test the boundary values of the medicineCode and price input. Decision table is used to cover major branches of decision

2.2.3.1 Equivalence Partitioning

Equivalence classes for medicine code

A1: 4000 ≤ medicineCode ≤ 4514
A2: medicineCode ＜ 4000
A3: medicine Code ＞ 4514

Equivalence classes for price

B1: 1.00 ≤ price ≤ 50.00
B2: price ＜ 1.00
B3: price＞50.00

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Equivalence Partitioning	Boundary Value Analysis
INPUT	

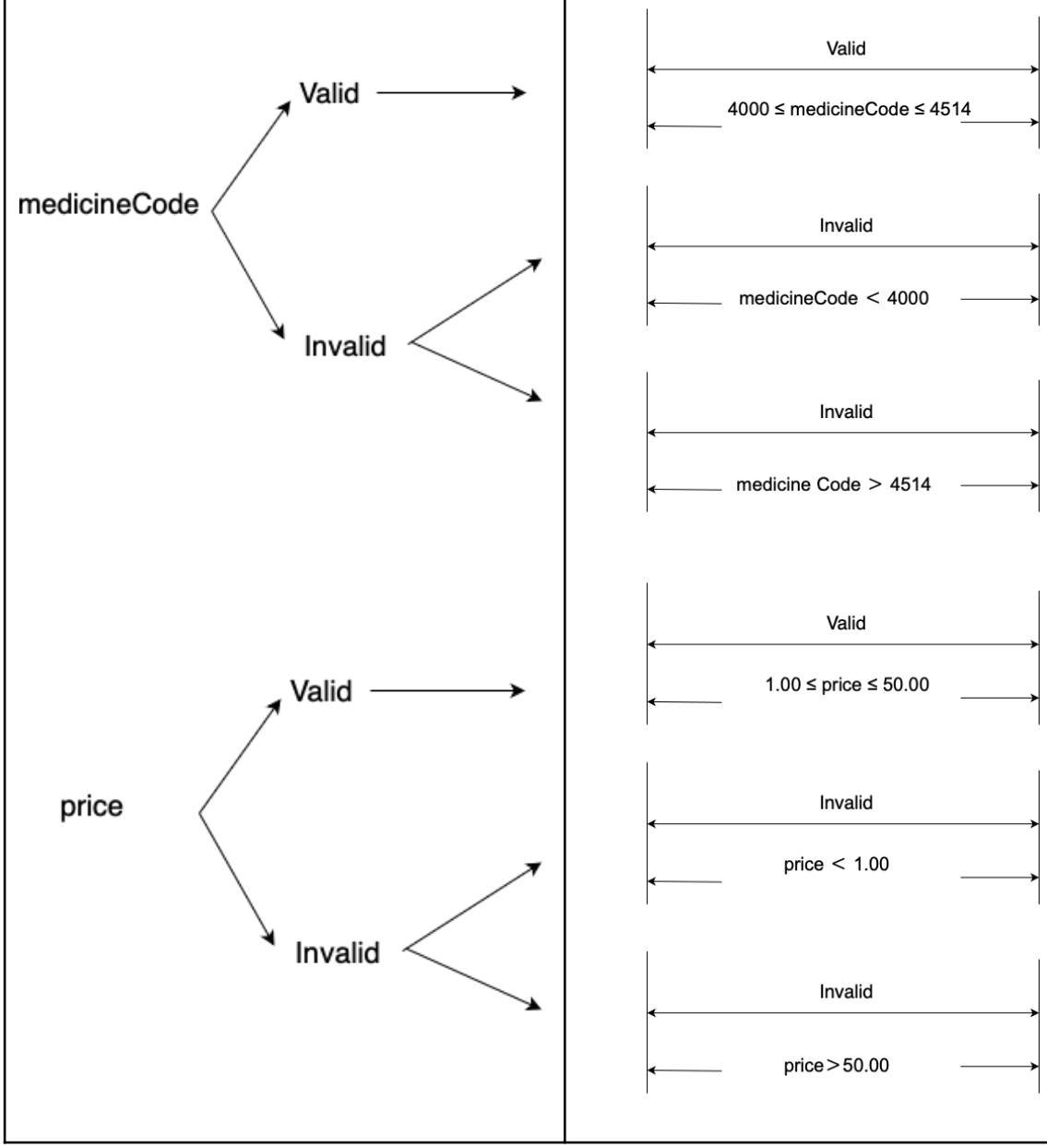

Figure 2.2.3.1a Add Medicine Equivalence Partitioning & Boundary Value Analysis

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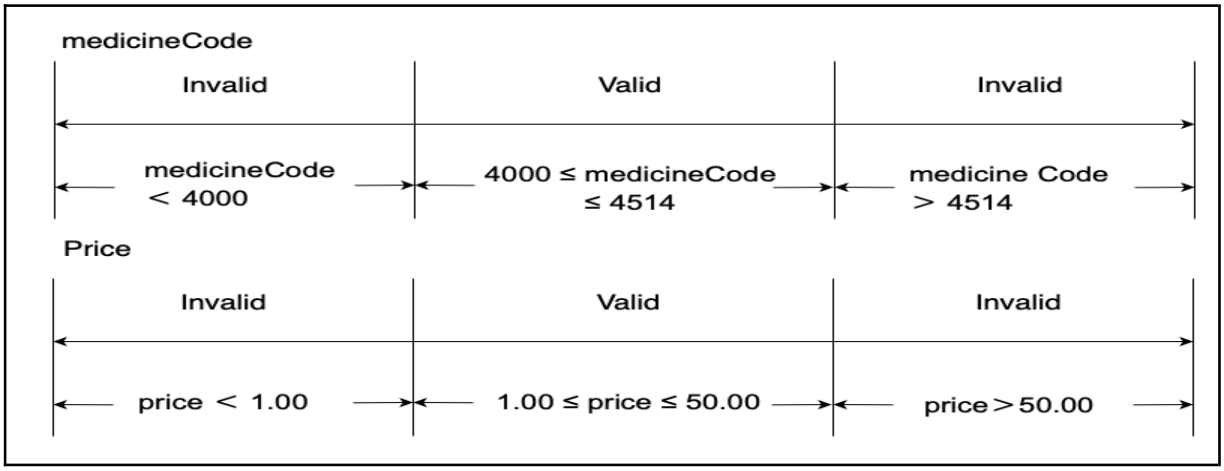


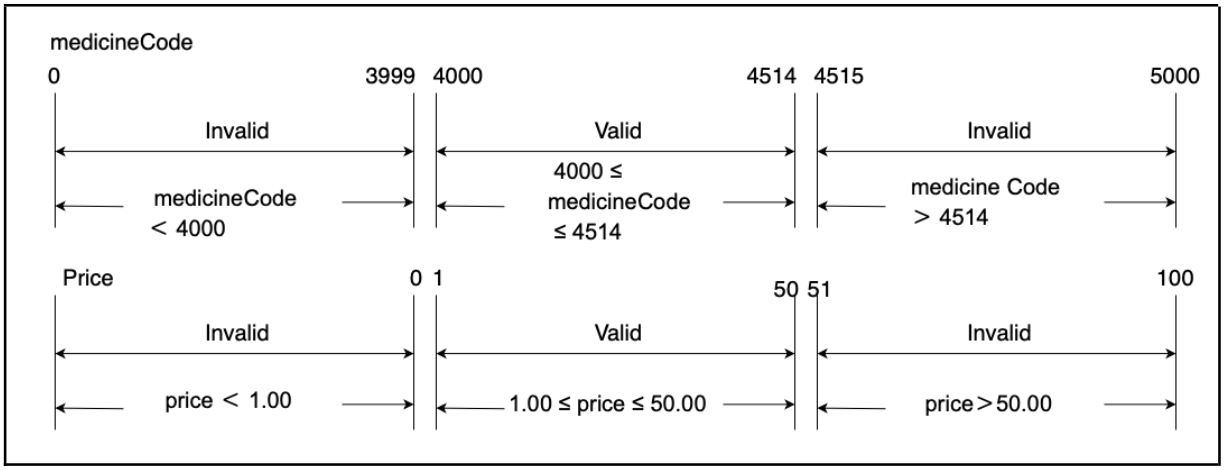
Figure 2.2.3.1b Add Medicine eEquivalence Partitioning

Test Condition ID	Test Condition	Test Coverage ID	Test Coverage	Example of Test Data
TCON-03-001	4000 ≤ medicineCode ≤ 4514	TCOV-03-001	4000 ≤ medicineCode ≤ 4514 (Valid)	4012
TCON-03-002	medicineCode < 4000	TCOV-03-002	medicineCode < 4000 (Invalid)	3890
TCON-03-003	medicine Code > 4514	TCOV-03-003	medicine Code > 4514 (Invalid)	4900
TCON-03-004	1.00 ≤ price ≤ 50.00	TCOV-03-004	1.00 ≤ price ≤ 50.00 (Valid)	20.00
TCON-03-005	price < 1.00	TCOV-03-005	price < 1.00 (Invalid)	0.00
TCON-03-006	price > 50.00	TCOV-03-006	Price > 50.00 (Invalid)	1000.00

TCON-03-007	Valid medicineCode	TCOV-03-007	Valid Output	4210
TCON-03-008	Invalid medicineCode	TCOV-03-008	Invalid Output	4999
TCON-03-009	Valid price	TCOV-03-009	Valid Output	30.00
TCON-03-010	Invalid price	TCOV-03-010	Invalid Output	1000.00

Table 2.2.3.1 Add Medicine Equivalence Partitioning Test Condition & Coverage

2.2.3.2 Boundary Value Analysis



2.2.3.2 Input Boundary Value Analysis

EP1: 4000 ≤ medicineCode ≤ 4514
EP2: medicineCode < 4000
EP3: medicineCode > 4514

EP4: 1.00 ≤ price ≤ 50.00
EP5: price < 1.00
EP6: price > 50.00

Test Condition ID	Test Condition	Test Coverage ID	Test Coverage	Example of Test Data
TCON-03-011	medicineCode = 3999	TCOV-03-011	medicineCode = 3999 (Invalid)	3999
TCON-03-012	medicineCode = 4000	TCOV-03-012	medicineCode = 4000 (Valid)	4000
TCON-03-013	medicine Code = 4001	TCOV-03-013	medicine Code = 4001 (Valid)	4001
TCON-03-014	medicineCode = 4513	TCOV-03-014	medicineCode = 4513 (Valid)	4513

TCON-03-015	medicineCode = 4514	TCOV-03-015	medicineCode = 4514 (Valid)	4514
TCON-03-016	medicineCode = 4515	TCOV-03-016	medicineCode = 4515 (Invalid)	4515
TCON-03-017	price = 0.00	TCOV-03-017	price = 0.00 (Invalid)	0.00
TCON-03-018	price = 1.00	TCOV-03-018	price = 1.00 (Valid)	1.00
TCON-03-019	price = 2.00	TCOV-03-019	price = 2.00 (Valid)	2.00
TCON-03-020	price =49.00	TCOV-03-020	price = 49.00 (Valid)	49.00
TCON-03-021	price = 50.00	TCOV-03-021	price = 50.00 (Valid)	50.00
TCON-03-022	price = 51.00	TCOV-03-022	price = 51.00 (Invalid)	51.00
TCON-03-007	Valid medicineCode	TCOV-03-007	Valid Output	4210
TCON-03-008	Invalid medicineCode	TCOV-03-008	Invalid Output	4999
TCON-03-009	Valid price	TCOV-03-009	Valid Output	30.00
TCON-03-010	Invalid price	TCOV-03-010	Invalid Output	1000.00

Table 2.2.3.2 Input Boundary Value Analysis Test Condition & Coverage

2.2.3.3 Decision Table Testing

Test Condition ID	Test Condition
TCON-03-023	medicineCode (mc)
TCON-03-024	Price (p)
TCON-03-025	Display “invalid medicine code”
TCON-03-026	Display “invalid price”
TCON-03-027	Add medicine into database
TCON-03-028	Display “Medicine successfully added”

Table 2.2.3.3a Add Medicine Decision Table Test Condition

Condition	TCOV-03-023	TCOV-03-024	TCOV-03-025	TCOV-03-026	TCOV-03-027
Medicine Code (mc)	mc<4000	4000≤ mc≤4514	4000≤ mc≤4514	4000≤ mc≤4514	mc>4514
Price(p)	-	p < 1.00	1.00 ≤p≤ 50.00	p > 50.00	-
Output					
Display “invalid medicine code”	✖				✖
Display “invalid price”		✖		✖	
Add medicine into database			✖		
Display “Medicine successfu			✖		

lly added”					

Table 2.2.3.3b Add Medicine Decision Table

2.2.3.4 Use Case Testing

Use Case ID	UC003	
Use Case	F003 Add Medicine	
Purpose	To add new medicine into database	
Actor	Hospital Administrator	
Description	The hospital administrator starts by providing the information needed to add new medicine into the database. If all valid requirements are input, the nurse will be added successfully into the database.	
Precondition	System prompt options	
Post-condition	Medicine successfully added into database	
Scenario Name	**Step**	**Action**
Main Flow	1	User choose option ‘5’
	2	User enter medicine Code
	3	User enter price
	4	System validates medicine code
	5	System validate price
	6	System add nurse into database
	7	System display “Medicine added successfully”
Alternate Flow - Invalid medicineCode	2.1	User Input invalidmedicineCode
	2.2	System display error messages “Invalid medicineCode”
	2.3	The use case end
Alternate Flow - Invalid price	4.1	User Input invalid price

	4.2	System display error messages “Invalid price”
	4.3	The use case end
Rules	None	
Note	None	

Table 2.2.3.4a Add Medicine Use Case

Test Condition ID	Test Condition	Test Coverage ID	Test Coverage	Test Data
TCON-03-029	Main Flow	TCOV-03-028	Main Flow	Name = paracetamol Valid medicine Code = 4102 Valid Price = 20.00
TCON-03-030	Alternate Flow - Invalid medicine Code	TCOV-03-029	Alternate Flow - Invalid medicine Code	Name = paracetamol Invalid medicine Code = 6234
TCON-03-031	Alternate Flow - Invalid Price	TCOV-03-030	Alternate Flow - Invalid Price	Name = paracetamol Valid medicine Code = 4001 Valid Price = 100.00

Table 2.2.3.4b Add Medicine Use Case Test Conditions & Coverage

2.2.4 F004 Add Nurse

Four techniques are identified for designing test for this feature, including:

i. Equivalent partitioning
ii. Boundary value analysis
iii. Decision table testing
Iv. Use Case Testing

Equivalence partitioning is used to split Id and gender into possible partitions for testing. Boundary value analysis will test the boundary values of the Id. Decision table is used to cover major branches of decision

2.2.4.1 Equivalence Partitioning

Equivalence classes for Id

A1: 8000 ≤ nurseId ≤ 9999
A2: nurseId ＜ 8000
A3: nurseId ＞ 9999

Equivalence classes for gender

C1: gender ∈ {‘M’ , ‘F’}
C2: gender ∉ {‘M’ , ‘F’}

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Equivalence Partitioning	Boundary Value Analysis
INPUT	

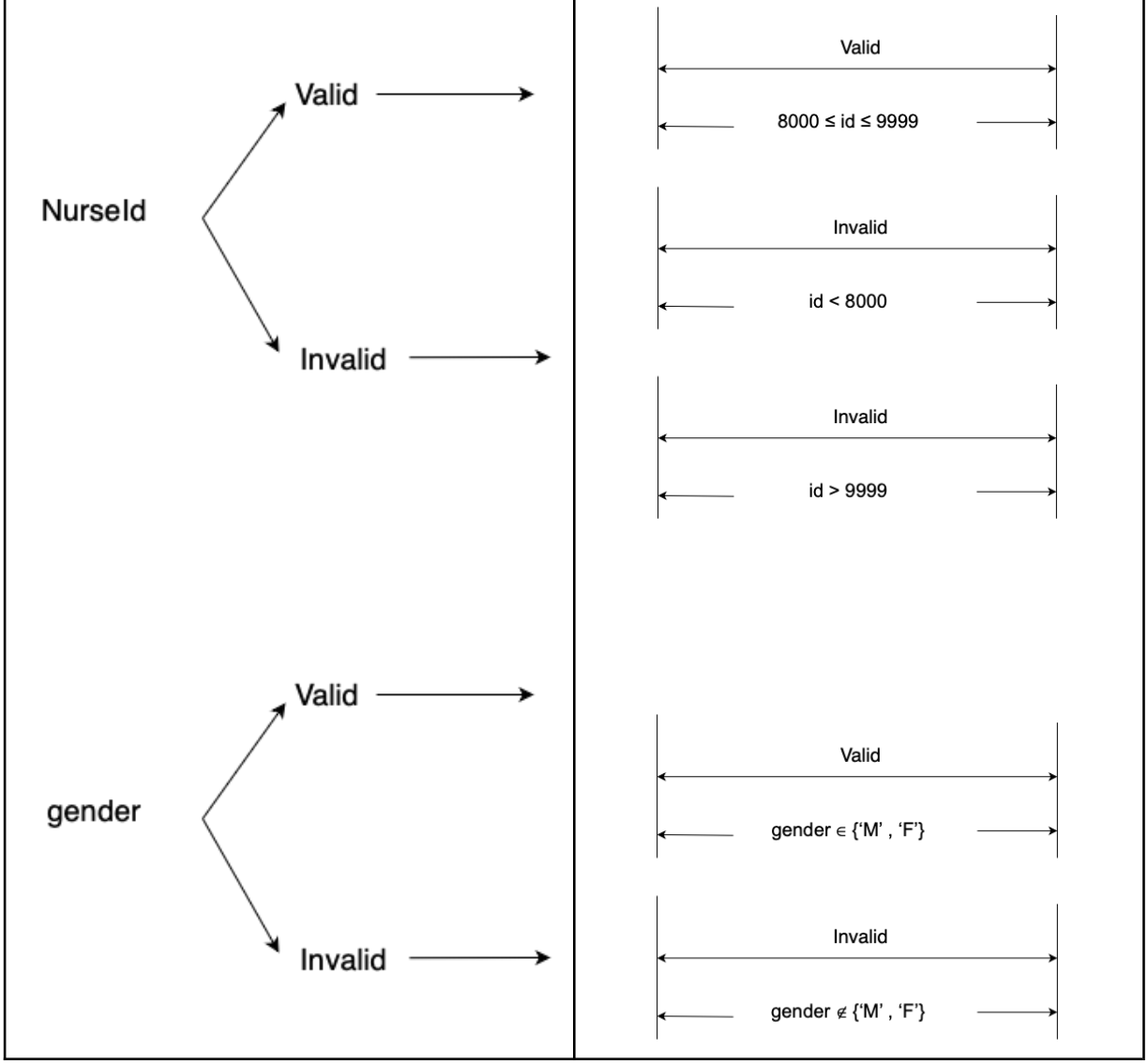


Figure 2.2.4.1a Add Nurse Equivalence Partitioning & Boundary Value Analysis

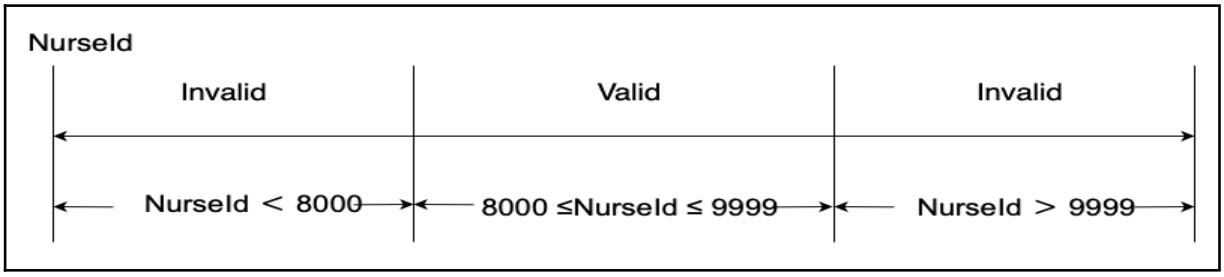
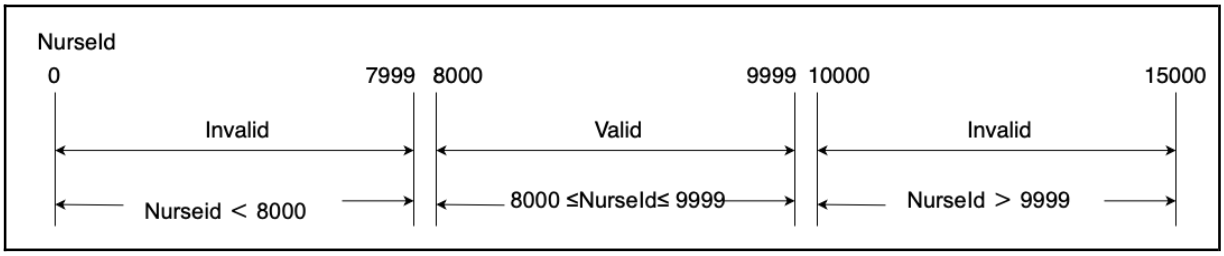


Figure 2.2.4.1b Add Nurse Equivalence Partitioning

Test Condition ID	Test Condition	Test Coverage ID	Test Coverage	Example of Test Data
TCON-04-001	8000 ≤ nurseId ≤ 9999	TCOV-04-001	8000 ≤ nurseId ≤9999 (Valid)	8125
TCON-04-002	nurseId < 8000	TCOV-04-002	nurseId < 8000 (Invalid)	6222
TCON-04-003	nurseId >9999	TCOV-04-003	nurseId >9999 (Invalid)	10000
TCON-04-004	gender ∈ {‘M’,‘F’}	TCOV-04-004	gender ∈ {‘M’,‘F’} (Valid)	M
TCON-04-005	gender ∉ {‘M’, ‘F’}	TCOV-04-005	gender ∉ {‘M’,‘F’} (Invalid)	G
TCON-04-006	Valid nurseId	TCOV-04-006	Valid Output	8798
TCON-04-007	Invalid nurseId	TCOV-04-007	Invalid Output	4999
TCON-04-008	Valid gender	TCOV-04-008	Valid Output	F
TCON-04-009	Invalid gender	TCOV-04-009	Invalid Output	A

Table 2.2.4.1 Add Medicine Equivalence Partitioning Test Condition & Coverage

2.2.4.2 Boundary Value Analysis



2.2.4.2 Input Boundary Value Analysis

EP1: 8000 ≤ nurseId ≤ 9000
EP2: nurseId < 8000
EP3: nurseId > 9999

Test Condition ID	Test Condition	Test Coverage ID	Test Coverage	Example of Test Data
TCON-04-010	nurseId = 7999	TCOV-04-010	nurseId = 7999 (Invalid)	7999
TCON-04-011	nurseId = 8000	TCOV-04-011	nurseId = 8000 (Valid)	8000
TCON-04-012	nurseId = 8001	TCOV-04-012	nurseId = 8001 (Valid)	8001
TCON-04-013	nurseId = 9998	TCOV-04-013	nurseId = 9998 (Valid)	9998
TCON-04-014	nurseId = 9999	TCOV-04-014	nurseId = 9999 (Valid)	9999
TCON-04-015	nurseId = 10000	TCOV-04-015	nurseId = 10000 (Invalid)	10000
TCON-04-008	Valid nurseId	TCOV-04-008	Valid Output	8798
TCON-04-009	Invalid nurseId	TCOV-04-009	Invalid Output	4999

Table 2.2.4.2 Input Boundary Value Analysis Test Condition & Coverage

2.2.4.3 Decision Table Testing

Test Condition ID	Test Condition
TCON-04-016	nurseId
TCON-04-017	gender = ‘M’
TCON-04-018	gender = ‘F’
TCON-04-019	Display "Invalid nurse ID"
TCON-04-020	Display "Invalid gender"
TCON-04-021	Display “Nurse successfully added”

Table 2.2.4.3a Add Nurse Decision Table Test Condition

Condition	1	2	3	5	7
nurseId	nurseId < 8000	8000 ≤ nurseId ≤ 9000	8000 ≤ nurseId ≤ 9000	8000 ≤ nurseId ≤ 9000	nurseId > 9999
gender = ‘M’	-	Y	-	N	-
gender = ‘F’	-	-	Y	N	-
Output					
Print "Invalid nurse ID"	✖				✖
Print "Invalid gender"				✖	
Display “Nurse successfully added”		✖	✖		

Table 2.2.4.3b Add Nurse Decision Table

2.2.4.4 Use Case Testing

Use Case ID	UC004	
Use Case	F004 Add Nurse	
Purpose	To add nurse for database	
Actor	Hospital Administrator	
Description	The hospital administrator starts by providing the information needed to add nurses into the database. If all valid requirements are input, the nurse will be added successfully into the database.	
Precondition	Hospital administrators enter command ‘Add_Nurse’	
Post-condition	Nurse successfully added into database	
Scenario Name	**Step**	**Action**
Main Flow	1	User choose option ‘3’
	2	User input nurseId
	3	User input gender
	4	System verify valid nurseId
	5	System verify gender
	6	System add nurse into database
	7	System display messages “Nurse successfully added”
Alternate Flow - Invalid Id	2.1	User Input invalid nurseId
	2.2	System display error messages "Invalid nurse ID"
	2.3	The use case end
Alternate Flow - Invalid Gender	3.1	User Input invalid gender
	3.2	System display error messages "Invalid gender"
	3.3	The use case end

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Rules	None
Note	None

Table 2.2.4.4a Add Nurse Use Case

Test Condition ID	Test Condition	Test Coverage ID	Test Coverage	Test Data
TCON-04-022	Main Flow	TCOV-04-022	Main Flow	Valid Id= 8203 Valid Gender = ‘M’
TCON-04-023	Alternate Flow - Invalid Id	TCOV-04-023	Alternate Flow - Invalid Id	Invalid Id= 2309
TCON-04-024	Alternate Flow - Invalid Gender	TCOV-04-024	Alternate Flow - Invalid Gender	Valid Id= 8203 Invalid Gender = ‘A’

Table 2.2.4.4b Add Nurse Use Case Test Conditions & Coverage

2.2.5 F005 Add Room

Four techniques are identified for designing test for this feature, including:

i. Equivalent partitioning
ii. Boundary value analysis
iii. Decision table testing
Iv. Use Case Testing

Equivalence partitioning is used to

2.2.5.1 Equivalence Partitioning

Equivalence classes for roomNo

R1: 1 ≤ roomNo ≤ 399
R2: roomNo < 1
R3: roomNo > 399

Equivalence classes for charges

C1: 100 ≤ charges ≤ 2000
C2: charges < 100
C3: charges > 2000

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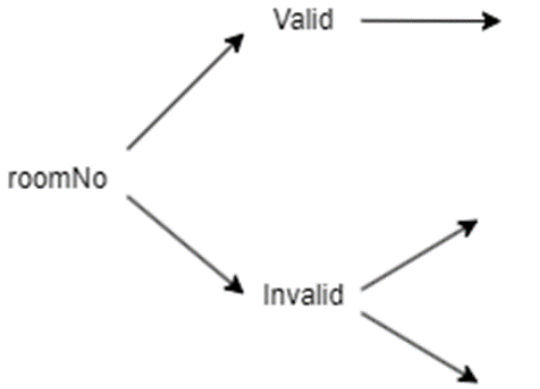
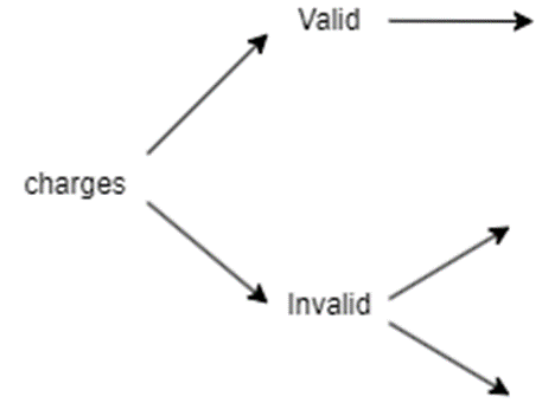
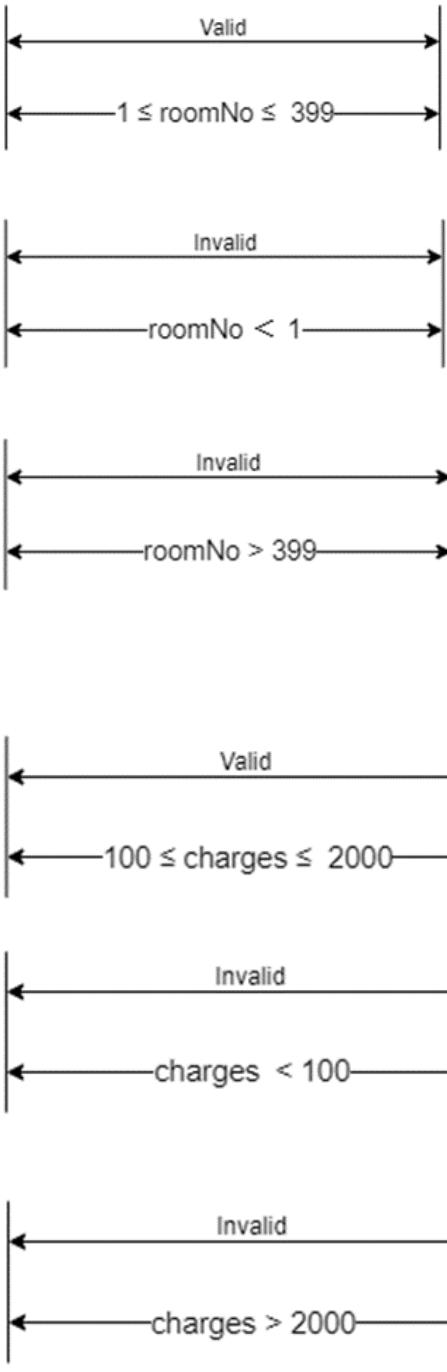
Equivalence Partitioning	Boundary Value Analysis
INPUT  	

TEST DESIGN SPECIFICATION

Figure 2.2.5.1a Add Room Equivalence Partitioning & Boundary Value Analysis

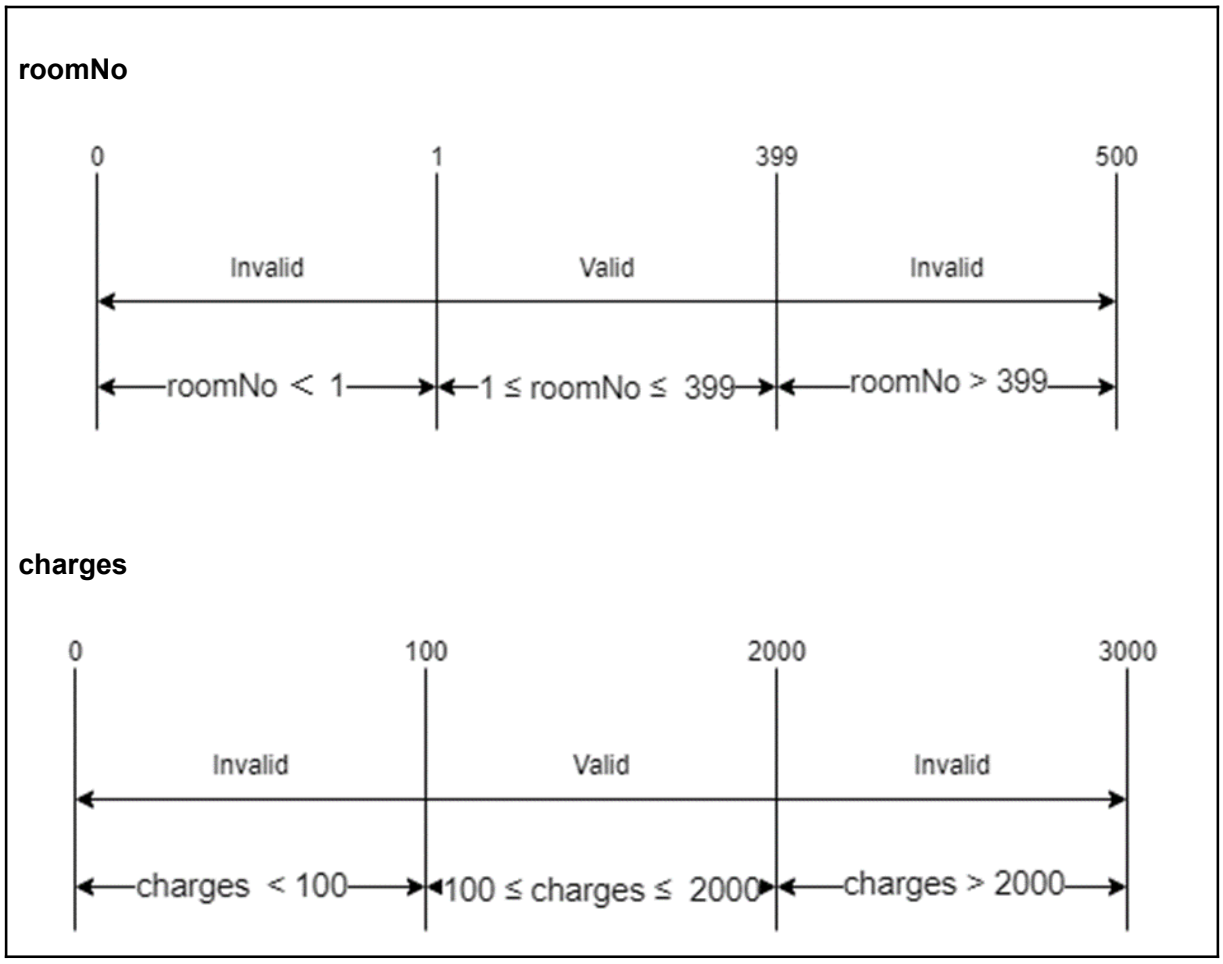


Figure 2.2.5.1b Add Room Equivalence Partitions

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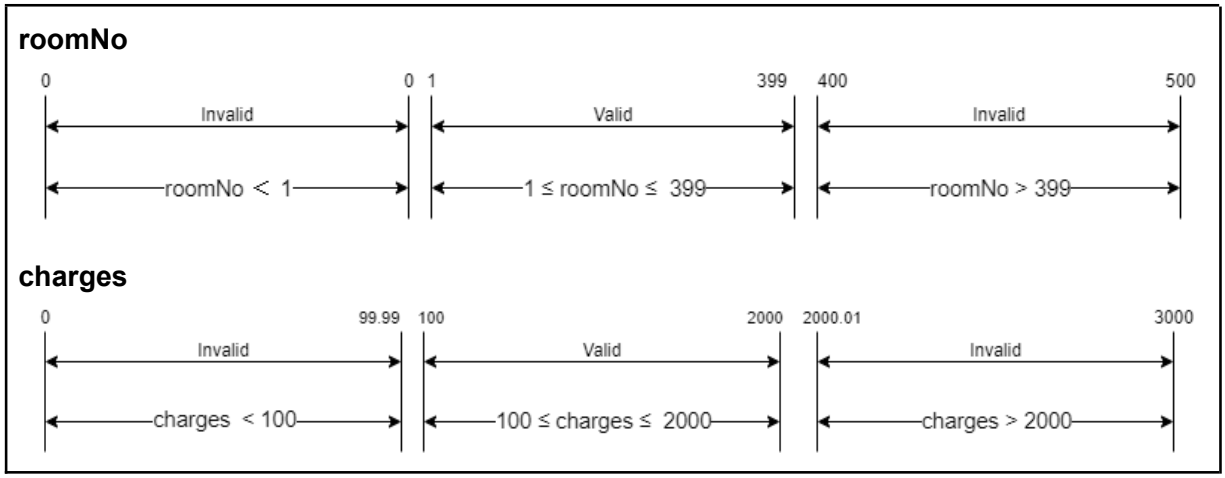
Test Condition ID	Test Condition	Test Coverage ID	Test Coverage	Example of Test Data
TCON-05-001	roomNo < 1	TCOV-05-001	roomNo < 1 (Invalid)	000
TCON-05-002	1 ≤ roomNo ≤ 399	TCOV-05-002	1 ≤ roomNo ≤ 399 (Valid)	101
TCON-05-003	roomNo > 399	TCOV-05-003	roomNo > 399 (Invalid)	443
TCON-05-004	Valid roomNo	TCOV-05-004	Valid roomNo (Valid output)	101
TCON-05-005	Invalid roomNo	TCOV-05-005	Invalid roomNo (Invalid output)	000
TCON-05-006	charges < 100	TCOV-05-006	charges < 100 (Invalid)	55
TCON-05-007	100 ≤ charges ≤ 2000	TCOV-05-007	100 ≤ charges ≤ 2000 (Valid)	900.0
TCON-05-008	charges > 2000	TCOV-05-008	charges > 2000 (invalid)	2500.00
TCON-05-009	Valid charges	TCOV-05-009	Valid charges (Valid output)	900.0
TCON-05-010	Invalid charges	TCOV-05-010	Invalid charges (Invalid output)	2500.0

Table 2.2.5.1c Add Room Equivalence Partitioning Test Conditions & Coverage

2.2.5.2 Boundary Value Analysis



2.2.5.2a Input Boundary Value Analysis

EP1: 1 ≤ roomNo ≤ 399
EP2: roomNo < 1
EP3: 400 ≤ roomNo ≤ 500

EP4: 100≤ charges ≤ 2000
EP5: 0 ≤ charges ≤ 99.99
EP6: 2000.01 ≤ charges ≤ 3000

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Test Condition ID	Test Condition	Test Coverage ID	Test Coverage	Example of Test Data
TCON-05-011	roomNo = 000	TCOV-05-011	roomNo = 000 (Invalid)	000
TCON-05-012	roomNo = 001	TCOV-05-012	roomNo = 001 (Valid)	001
TCON-05-013	roomNo = 002	TCOV-05-013	roomNo = 002 (Valid)	002
TCON-05-014	roomNo = 398	TCOV-05-014	roomNo = 398	398
TCON-05-015	roomNo = 399	TCOV-05-015	roomNo = 399 (Valid)	399
TCON-05-016	roomNo = 400	TCOV-05-016	roomNo = 400 (Invalid)	400
TCON-05-017	charges = 99.99	TCOV-05-017	charges = 99.99 (Invalid)	99.99
TCON-05-018	charges = 100.00	TCOV-05-018	charges = 100 (Valid)	100
TCON-05-019	charges = 100.01	TCOV-05-019	charges = 100.01 (Valid)	100.01
TCON-05-020	charges = 1999.99	TCOV-05-020	charges = 1999.99 (Valid)	1999.99
TCON-05-021	charges = 2000.00	TCOV-05-021	charges = 2000 (Valid)	2000
TCON-05-022	charges = 2000.01	TCOV-05-022	charges = 2000.01 (Invalid)	2000.01

TCON-05-004	Valid roomNo	TCOV-05-004	Valid roomNo (Valid output)	101
TCON-05-005	Invalid roomNo	TCOV-05-005	Invalid roomNo (Invalid output)	000
TCON-05-009	Valid charges	TCOV-05-009	Valid charges (Valid output)	900.0
TCON-05-010	Invalid charges	TCOV-05-010	Invalid charges (Invalid output)	2500.0

Table 2.2.5.2b Input Boundary Value Analysis Test Condition & Coverage

2.2.5.3 Decision Table Testing

Test Condition ID	Test Condition
TCON-05-023	roomNo
TCON-05-024	charges
TCON-05-025	Display “Invalid roomNo“
TCON-05-026	Display “Invalid charges”
TCON-05-027	Display “Room successfully added”

Table 2.2.5.3a Add Room Decision Table Test Condition

Condition	TCOV-05-004	TCOV-05-009	TCOV-05-026	TCOV-05-027	TCOV-05-028
roomNo	roomNo < 1	1 ≤ roomNo ≤ 399	400 ≤ roomNo ≤ 500	1 ≤ roomNo ≤ 399	1 ≤ roomNo ≤ 399
charges	-	0 ≤ charges ≤ 99.99	-	2000.01 ≤ charges ≤ 3000	100≤ charges ≤ 2000
Output					
Display “Invalid roomNo“	✖		✖		
Display “Invalid charges”		✖		✖	
Display “Room successfully added”					✖

Table 2.2.5.3b Add Room Decision Table

2.2.5.4 Use Case Testing

Use Case ID	UC005	
Use Case	F005 Add Room	
Purpose	To add room for database	
Actor	Hospital Administrator	
Description	The hospital administrator starts by providing the information needed to add room into the database. If all valid requirements are input, the room will be added successfully into the database.	
Precondition	System prompt options	
Post-condition	Room successfully added into database	
Scenario Name	**Step**	**Action**
Main Flow	1	User choose option ‘1’
	2	User enter roomNo
	3	User enter charges
	4	System validates roomNo
	5	System validate charges
	6	System add room into database
Alternate Flow - Invalid roomNo	4.1	User Input invalid roomNo
	4.2	System display error messages “Invalid room number”
	4.3	The use case end
Alternate Flow - Invalid charges	5.1	User Input invalid charges
	5.2	System display error messages “Invalid charges”
	5.3	The use case end

Rules	None
Note	None

Table 2.2.5.4a Add Room Use Case

Test Condition ID	Test Condition	Test Coverage ID	Test Coverage	Test Data
TCON-05-028	Main Flow	TCOV-05-029	Main Flow	Valid roomNo = 123 Valid charges = 300
TCON-05-029	Alternate Flow - Invalid roomNo	TCOV-05-030	Alternate Flow - Invalid roomNo	Valid roomNo = 223 Valid charges = 300
TCON-05-030	Alternate Flow - Invalid charges	TCOV-05-031	Alternate Flow - Invalid charges	Valid roomNo = 123 Valid charges = 55

Table 2.2.5.4b Session Verification Use Case Test Conditions & Coverage

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TEST DESIGN SPECIFICATION

Project Title: KHS Independent Verification and Validation		
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2.3 Test Identification

2.3.1 Add Doctor

Test Case ID	Description	Test Coverage ID	Test ConditionID
TC-01-001	doctorId = 4999 gender = F	TCOV-01-001	TCON-01-001
		TCOV-01-005	TCON-01-005
		TCOV-01-010	TCON-01-010
		TCOV-01-007	TCON-01-007
		TCOV-01-008	TCON-01-008
		TCOV-01-023	TCON-01-023
TC-01-002	doctorId = 4999 gender = M	TCOV-01-001	TCON-01-001
		TCOV-01-005	TCON-01-005
		TCOV-01-010	TCON-01-010
		TCOV-01-007	TCON-01-007
		TCOV-01-008	TCON-01-008
		TCOV-01-023	TCON-01-023
TC-01-003	doctorId = 4999 gender = G	TCOV-01-001	TCON-01-001
		TCOV-01-005	TCON-01-005
		TCOV-01-007	TCON-01-007
		TCOV-01-006	TCON-01-006
		TCOV-01-009	TCON-01-009
		TCOV-01-023	TCON-01-023
		TCOV-01-024	TCON-01-024
TC-01-004	doctorId = 5000 gender = F	TCOV-01-002	TCON-01-002

		TCOV-01-004	TCON-01-004
		TCOV-01-011	TCON-01-011
		TCOV-01-007	TCON-01-007
		TCOV-01-008	TCON-01-007
		TCOV-01-022	TCON-01-022
		TCOV-01-016	TCON-01-016
		TCOV-01-017	TCON-01-017
		TCOV-01-021	TCON-01-021
TC-01-005	doctorId = 5000 gender = M	TCOV-01-002	TCON-01-002
		TCOV-01-004	TCON-01-004
		TCOV-01-011	TCON-01-011
		TCOV-01-007	TCON-01-007
		TCOV-01-008	TCON-01-008
		TCOV-01-022	TCON-01-022
		TCOV-01-016	TCON-01-016
		TCOV-01-018	TCON-01-018
		TCOV-01-021	TCON-01-021
TC-01-006	doctorId = 5000 gender = G	TCOV-01-002	TCON-01-002
		TCOV-01-004	TCON-01-004
		TCOV-01-011	TCON-01-011
		TCOV-01-006	TCON-01-006
		TCOV-01-024	TCON-01-024
		TCOV-01-016	TCON-01-016
		TCOV-01-020	TCON-01-020

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TC-01-007	doctorId = 5001 gender = F	TCOV-01-002	TCON-01-002
		TCOV-01-004	TCON-01-004
		TCOV-01-007	TCON-01-007
		TCOV-01-008	TCON-01-008
		TCOV-01-012	TCON-01-012
		TCOV-01-016	TCON-01-016
		TCOV-01-017	TCON-01-017
		TCOV-01-021	TCON-01-021
		TCOV-01-022	TCON-01-022
TC-01-008	doctorId = 5001 gender = M	TCOV-01-002	TCON-01-002
		TCOV-01-004	TCON-01-004
		TCOV-01-007	TCON-01-007
		TCOV-01-008	TCON-01-008
		TCOV-01-012	TCON-01-012
		TCOV-01-016	TCON-01-016
		TCOV-01-018	TCON-01-018
		TCOV-01-021	TCON-01-021
		TCOV-01-022	TCON-01-022
TC-01-009	doctorId = 5001 gender = G	TCOV-01-002	TCON-01-002
		TCOV-01-004	TCON-01-004
		TCOV-01-006	TCON-01-006
		TCOV-01-009	TCON-01-009
		TCOV-01-012	TCON-01-012
		TCOV-01-016	TCON-01-016

		TCOV-01-020	TCON-01-020
		TCOV-01-024	TCON-01-024
TC-01-010	doctorId = 7998 gender = F	TCOV-01-002	TCON-01-002
		TCOV-01-004	TCON-01-004
		TCOV-01-007	TCON-01-007
		TCOV-01-008	TCON-01-008
		TCOV-01-013	TCON-01-013
		TCOV-01-016	TCON-01-016
		TCOV-01-017	TCON-01-017
		TCOV-01-021	TCON-01-021
		TCOV-01-022	TCON-01-022
TC-01-011	doctorId = 7998 gender = M	TCOV-01-002	TCON-01-002
		TCOV-01-004	TCON-01-004
		TCOV-01-007	TCON-01-007
		TCOV-01-008	TCON-01-008
		TCOV-01-013	TCON-01-013
		TCOV-01-016	TCON-01-016
		TCOV-01-018	TCON-01-018
		TCOV-01-021	TCON-01-021
		TCOV-01-022	TCON-01-022
TC-01-012	doctorId = 7998 gender = G	TCOV-01-002	TCON-01-002
		TCOV-01-004	TCON-01-004
		TCOV-01-006	TCON-01-006
		TCOV-01-009	TCON-01-009

		TCOV-01-013	TCON-01-013
		TCOV-01-016	TCON-01-016
		TCOV-01-020	TCON-01-020
		TCOV-01-024	TCON-01-024
TC-01-013	doctorId = 7999 gender = F	TCOV-01-003	TCON-01-003
		TCOV-01-004	TCON-01-004
		TCOV-01-007	TCON-01-007
		TCOV-01-008	TCON-01-008
		TCOV-01-014	TCON-01-014
		TCOV-01-016	TCON-01-016
		TCOV-01-017	TCON-01-017
		TCOV-01-021	TCON-01-021
		TCOV-01-022	TCON-01-022
TC-01-014	doctorId = 7999 gender = M	TCOV-01-003	TCON-01-003
		TCOV-01-004	TCON-01-004
		TCOV-01-007	TCON-01-007
		TCOV-01-008	TCON-01-008
		TCOV-01-014	TCON-01-014
		TCOV-01-016	TCON-01-016
		TCOV-01-018	TCON-01-018
		TCOV-01-021	TCON-01-021
		TCOV-01-022	TCON-01-022
TC-01-015	doctorId = 7999 gender = G	TCOV-01-002	TCON-01-002
		TCOV-01-004	TCON-01-004

		TCOV-01-006	TCON-01-006
		TCOV-01-009	TCON-01-009
		TCOV-01-014	TCON-01-014
		TCOV-01-016	TCON-01-016
		TCOV-01-020	TCON-01-020
		TCOV-01-024	TCON-01-024
TC-01-016	doctorId = 8001 gender = F	TCOV-01-003	TCON-01-003
		TCOV-01-005	TCON-01-005
		TCOV-01-007	TCON-01-007
		TCOV-01-008	TCON-01-008
		TCOV-01-015	TCON-01-015
		TCOV-01-023	TCON-01-022
TC-01-017	doctorId = 8001 gender = M	TCOV-01-003	TCON-01-003
		TCOV-01-005	TCON-01-005
		TCOV-01-007	TCON-01-007
		TCOV-01-008	TCON-01-008
		TCOV-01-015	TCON-01-015
		TCOV-01-023	TCON-01-022
TC-01-018	doctorId = 8001 gender = G	TCOV-01-003	TCON-01-003
		TCOV-01-005	TCON-01-005
		TCOV-01-006	TCON-01-006
		TCOV-01-009	TCON-01-009
		TCOV-01-015	TCON-01-015
		TCOV-01-023	TCON-01-023

		TCOV-01-024	TCON-01-024
TC-01-019	doctorId = 9 gender = Don't care	TCOV-01-016	TCON-01-016
		TCOV-01-017	TCON-01-017
		TCOV-01-018	TCON-01-018
		TCOV-01-019	TCON-01-019
		TCOV-01-023	TCON-01-023
TC-01-020	doctorId = 10005 gender = Don't care	TCOV-01-016	TCON-01-016
		TCOV-01-017	TCON-01-017
		TCOV-01-018	TCON-01-018
		TCOV-01-019	TCON-01-019
		TCOV-01-023	TCON-01-023
TC-01-021	Add Doctor Main Flow	TCOV-01-002	TCON-01-018
		TCOV-01-004	TCON-01-018
		TCOV-01-007	TCON-01-018
		TCOV-01-008	TCON-01-018
		TCOV-01-012	TCON-01-018
		TCOV-01-013	TCON-01-018
		TCOV-01-014	TCON-01-018
		TCOV-01-016	TCON-01-018
		TCOV-01-017	TCON-01-018
		TCOV-01-018	TCON-01-018
		TCOV-01-021	TCON-01-018
		TCOV-01-022	TCON-01-018
TC-01-022	Add Doctor	TCOV-01-010	TCON-01-010

	AlternateFlow - Invalid doctorId	TCOV-01-011	TCON-01-011
		TCOV-01-007	TCON-01-007
		TCOV-01-009	TCON-01-009
		TCOV-01-008	TCON-01-008
		TCOV-01-002	TCON-01-002
		TCOV-01-015	TCON-01-015
TC-01-023	Add Doctor AlternateFlow - Invalid gender	TCOV-01-011	TCON-01-011
		TCOV-01-004	TCON-01-004
		TCOV-01-006	TCON-01-006
		TCOV-01-009	TCON-01-009
		TCOV-01-016	TCON-01-016
		TCOV-01-019	TCON-01-019
		TCOV-01-024	TCON-01-024

Table 2.3.1 Add Doctor Test Identification

2.3.2 Add Patient

Test Case ID	Description	Test Coverage ID	Test Condition ID
TC-02-001	Patient ID = 999 IllnessLength = 0	TCOV-02-002	TCON-02-002
		TCOV-02-005	TCON-02-005
		TCOV-02-007	TCON-02-007
		TCOV-02-009	TCON-02-009
		TCOV-02-010	TCON-02-010
		TCOV-02-018	TCON-02-018
TC-02-002	Patient ID = 999 IllnessLength = 1	TCOV-02-002	TCON-02-002
		TCOV-02-005	TCON-02-005
		TCOV-02-006	TCON-02-006
		TCOV-02-008	TCON-02-008
		TCOV-02-010	TCON-02-010
		TCOV-02-019	TCON-02-019
TC-02-003	Patient ID = 1000 IllnessLength = 0	TCOV-02-001	TCON-02-001
		TCOV-02-004	TCON-02-004
		TCOV-02-007	TCON-02-007
		TCOV-02-009	TCON-02-00
		TCOV-02-011	TCON-02-011
		TCOV-02-018	TCON-02-018
TC-02-004	Patient ID = 1000 IllnessLength = 1	TCOV-02-001	TCON-02-001
		TCOV-02-004	TCON-02-004
		TCOV-02-006	TCON-02-006

		TCOV-02-008	TCON-02-008
		TCOV-02-011	TCON-02-011
		TCOV-02-019	TCON-02-019
TC-02-005	Patient ID = 1001 IllnessLength = 0	TCOV-02-002	TCON-02-002
		TCOV-02-004	TCON-02-004
		TCOV-02-007	TCON-02-007
		TCOV-02-009	TCON-02-009
		TCOV-02-012	TCON-02-012
		TCOV-02-018	TCON-02-018
TC-02-006	Patient ID = 1001 IllnessLength = 1	TCOV-02-001	TCON-02-001
		TCOV-02-004	TCON-02-004
		TCOV-02-006	TCON-02-006
		TCOV-02-008	TCON-02-008
		TCOV-02-012	TCON-02-012
		TCOV-02-019	TCON-02-019
TC-02-007	Patient ID = 3998 IllnessLength = 0	TCOV-02-002	TCON-02-002
		TCOV-02-005	TCON-02-005
		TCOV-02-007	TCON-02-007
		TCOV-02-009	TCON-02-009
		TCOV-02-013	TCON-02-013
		TCOV-02-018	TCON-02-018
TC-02-008	Patient ID = 3998 IllnessLength = 1	TCOV-02-002	TCON-02-002
		TCOV-02-005	TCON-02-005
		TCOV-02-006	TCON-02-006

		TCOV-02-008	TCON-02-008
		TCOV-02-013	TCON-02-013
		TCOV-02-019	TCON-02-019
TC-02-009	Patient ID = 3999 IllnessLength = 0	TCOV-02-001	TCON-02-001
		TCOV-02-004	TCON-02-004
		TCOV-02-007	TCON-02-007
		TCOV-02-009	TCON-02-00
		TCOV-02-014	TCON-02-014
		TCOV-02-018	TCON-02-018
TC-02-010	Patient ID = 3999 IllnessLength = 1	TCOV-02-001	TCON-02-001
		TCOV-02-004	TCON-02-004
		TCOV-02-006	TCON-02-006
		TCOV-02-008	TCON-02-008
		TCOV-02-014	TCON-02-014
		TCOV-02-019	TCON-02-019
TC-02-011	Patient ID = 4000 IllnessLength = 0	TCOV-02-002	TCON-02-002
		TCOV-02-004	TCON-02-004
		TCOV-02-007	TCON-02-007
		TCOV-02-009	TCON-02-009
		TCOV-02-015	TCON-02-015
		TCOV-02-018	TCON-02-018
TC-02-012	Patient ID = 4000 IllnessLength = 1	TCOV-02-001	TCON-02-001
		TCOV-02-004	TCON-02-004
		TCOV-02-006	TCON-02-006

		TCOV-02-008	TCON-02-008
		TCOV-02-015	TCON-02-015
		TCOV-02-019	TCON-02-019
TC-02-013	Patient ID = 560 IllnessLength = don't care	TCOV-02-022	TCON-02-022
		TCOV-02-023	TCON-02-023
		TCOV-02-024	TCON-02-024
TC-02-014	Patient ID = 5678 IllnessLength = don't care	TCOV-02-022	TCON-02-022
		TCOV-02-023	TCON-02-023
		TCOV-02-024	TCON-02-024
TC-02-015	Main Flow	TCOV-02-001	TCON-02-001
		TCOV-02-004	TCON-02-004
		TCOV-02-006	TCON-02-006
		TCOV-02-008	TCON-02-008
		TCOV-02-027	TCON-02-027
TC-02-016	Alternate Flow - Invalid patientID	TCOV-02-002	TCON-02-002
		TCOV-02-003	TCON-02-003
		TCOv-02-005	TCON-02-005
		TCOV-02-028	TCON-02-028
TC-02-017	Alternate Flow - Invalid Illness	TCOV-02-007	TCON-02-007
		TCOV-02-009	TCON-02-009
		TCOV-02-029	TCON-02-029

2.3.3 Add Medicine

Test Case ID	Description	Test Coverage ID	Test Condition ID
TC-03-001	medicineCode = 3999 price = 0.00	TCOV-03-002	TCON-03-002
		TCOV-03-005	TCON-03-005
		TCOV-03-008	TCON-03-008
		TCOV-03-010	TCON-03-010
		TCOV-03-011	TCON-03-011
		TCOV-03-017	TCON-03-017
TC-03-002	medicineCode = 3999 price = 1.00	TCOV-03-002	TCON-03-002
		TCOV-03-004	TCON-03-004
		TCOV-03-008	TCON-03-008
		TCOV-03-009	TCON-03-009
		TCOV-03-011	TCON-03-011
		TCOV-03-018	TCON-03-018
TC-03-003	medicineCode = 3999 price = 2.00	TCOV-03-002	TCON-03-002
		TCOV-03-004	TCON-03-004
		TCOV-03-008	TCON-03-008
		TCOV-03-009	TCON-03-009
		TCOV-03-011	TCON-03-011
		TCOV-03-019	TCON-03-019
TC-03-004	medicineCode = 3999 price = 49.00	TCOV-03-002	TCON-03-002
		TCOV-03-004	TCON-03-004
		TCOV-03-008	TCON-03-008

		TCOV-03-009	TCON-03-009
		TCOV-03-011	TCON-03-019
		TCOV-03-020	TCON-03-020
TC-03-005	medicineCode = 3999 price = 50.00	TCOV-03-002	TCON-03-002
		TCOV-03-004	TCON-03-004
		TCOV-03-008	TCON-03-008
		TCOV-03-009	TCON-03-009
		TCOV-03-011	TCON-03-011
		TCOV-03-021	TCON-03-021
TC-03-006	medicineCode = 3999 price = 51.00	TCOV-03-002	TCON-03-002
		TCOV-03-005	TCON-03-005
		TCOV-03-008	TCON-03-008
		TCOV-03-010	TCON-03-010
		TCOV-03-011	TCON-03-011
		TCOV-03-022	TCON-03-022
TC-03-007	medicineCode = 4000 price = 0.00	TCOV-03-001	TCON-03-001
		TCOV-03-005	TCON-03-005
		TCOV-03-007	TCON-03-007
		TCOV-03-010	TCON-03-010
		TCOV-03-012	TCON-03-012
		TCOV-03-017	TCON-03-017
TC-03-008	medicineCode = 4000 price = 1.00	TCOV-03-001	TCON-03-001
		TCOV-03-004	TCON-03-004
		TCOV-03-007	TCON-03-007

		TCOV-03-009	TCON-03-009
		TCOV-03-012	TCON-03-012
		TCOV-03-018	TCON-03-018
TC-03-009	medicineCode = 4000 price = 2.00	TCOV-03-001	TCON-03-001
		TCOV-03-004	TCON-03-004
		TCOV-03-007	TCON-03-007
		TCOV-03-009	TCON-03-009
		TCOV-03-012	TCON-03-012
		TCOV-03-019	TCON-03-019
TC-03-010	medicineCode = 4000 price =49.00	TCOV-03-001	TCON-03-001
		TCOV-03-004	TCON-03-004
		TCOV-03-007	TCON-03-007
		TCOV-03-009	TCON-03-009
		TCOV-03-012	TCON-03-012
		TCOV-03-020	TCON-03-020
TC-03-011	medicineCode = 4000 price = 50.00	TCOV-03-001	TCON-03-001
		TCOV-03-004	TCON-03-004
		TCOV-03-007	TCON-03-007
		TCOV-03-009	TCON-03-009
		TCOV-03-012	TCON-03-012
		TCOV-03-021	TCON-03-021
TC-03-012	medicineCode = 4000 price = 51.00	TCOV-03-001	TCON-03-001
		TCOV-03-006	TCON-03-006
		TCOV-03-007	TCON-03-007

		TCOV-03-010	TCON-03-010
		TCOV-03-012	TCON-03-012
		TCOV-03-022	TCON-03-022
TC-03-013	medicine Code = 4001 price = 0.00	TCOV-03-001	TCON-03-001
		TCOV-03-005	TCON-03-005
		TCOV-03-007	TCON-03-007
		TCOV-03-010	TCON-03-010
		TCOV-03-013	TCON-03-013
		TCOV-03-017	TCON-03-017
TC-03-014	medicine Code = 4001 price = 1.00	TCOV-03-001	TCON-03-001
		TCOV-03-004	TCON-03-004
		TCOV-03-007	TCON-03-007
		TCOV-03-009	TCON-03-009
		TCOV-03-013	TCON-03-013
		TCOV-03-018	TCON-03-018
TC-03-015	medicine Code = 4001 price = 2.00	TCOV-03-001	TCON-03-001
		TCOV-03-004	TCON-03-004
		TCOV-03-007	TCON-03-007
		TCOV-03-009	TCON-03-009
		TCOV-03-013	TCON-03-013
		TCOV-03-019	TCON-03-019
TC-03-016	medicine Code = 4001 price =49.00	TCOV-03-001	TCON-03-001
		TCOV-03-004	TCON-03-004
		TCOV-03-007	TCON-03-007

		TCOV-03-009	TCON-03-009
		TCOV-03-013	TCON-03-013
		TCOV-03-020	TCON-03-020
TC-03-017	medicine Code = 4001 price = 50.00	TCOV-03-001	TCON-03-001
		TCOV-03-004	TCON-03-004
		TCOV-03-007	TCON-03-007
		TCOV-03-009	TCON-03-009
		TCOV-03-013	TCON-03-013
		TCOV-03-021	TCON-03-021
TC-03-018	medicine Code = 4001 price = 51.00	TCOV-03-001	TCON-03-001
		TCOV-03-006	TCON-03-006
		TCOV-03-007	TCON-03-007
		TCOV-03-010	TCON-03-010
		TCOV-03-013	TCON-03-013
		TCOV-03-022	TCON-03-022
TC-03-019	medicineCode = 4513 price = 0.00	TCOV-03-001	TCON-03-001
		TCOV-03-005	TCON-03-005
		TCOV-03-007	TCON-03-007
		TCOV-03-010	TCON-03-010
		TCOV-03-014	TCON-03-014
		TCOV-03-017	TCON-03-017
TC-03-020	medicineCode = 4513 price = 1.00	TCOV-03-001	TCON-03-001
		TCOV-03-004	TCON-03-004
		TCOV-03-007	TCON-03-007

		TCOV-03-009	TCON-03-009
		TCOV-03-014	TCON-03-014
		TCOV-03-018	TCON-03-018
TC-03-021	medicineCode = 4513 price = 2.00	TCOV-03-001	TCON-03-001
		TCOV-03-004	TCON-03-004
		TCOV-03-007	TCON-03-007
		TCOV-03-009	TCON-03-009
		TCOV-03-014	TCON-03-014
		TCOV-03-019	TCON-03-019
TC-03-022	medicineCode = 4513 price =49.00	TCOV-03-001	TCON-03-001
		TCOV-03-004	TCON-03-004
		TCOV-03-007	TCON-03-007
		TCOV-03-009	TCON-03-009
		TCOV-03-014	TCON-03-014
		TCOV-03-020	TCON-03-020
TC-03-023	medicineCode = 4513 price = 50.00	TCOV-03-001	TCON-03-001
		TCOV-03-004	TCON-03-004
		TCOV-03-007	TCON-03-007
		TCOV-03-009	TCON-03-009
		TCOV-03-014	TCON-03-014
		TCOV-03-021	TCON-03-021
TC-03-024	medicineCode = 4513 price = 51.00	TCOV-03-001	TCON-03-001
		TCOV-03-006	TCON-03-006
		TCOV-03-007	TCON-03-007

		TCOV-03-010	TCON-03-010
		TCOV-03-014	TCON-03-014
		TCOV-03-022	TCON-03-022
TC-03-025	medicineCode = 4514 price = 0.00	TCOV-03-001	TCON-03-001
		TCOV-03-005	TCON-03-005
		TCOV-03-007	TCON-03-007
		TCOV-03-010	TCON-03-010
		TCOV-03-015	TCON-03-015
		TCOV-03-017	TCON-03-017
TC-03-026	medicineCode = 4514 price = 1.00	TCOV-03-001	TCON-03-001
		TCOV-03-004	TCON-03-004
		TCOV-03-007	TCON-03-007
		TCOV-03-009	TCON-03-009
		TCOV-03-015	TCON-03-015
		TCOV-03-018	TCON-03-018
TC-03-027	medicineCode = 4514 price = 2.00	TCOV-03-001	TCON-03-001
		TCOV-03-004	TCON-03-004
		TCOV-03-007	TCON-03-007
		TCOV-03-009	TCON-03-009
		TCOV-03-015	TCON-03-015
		TCOV-03-019	TCON-03-019
TC-03-028	medicineCode = 4514 price =49.00	TCOV-03-001	TCON-03-001
		TCOV-03-004	TCON-03-004
		TCOV-03-007	TCON-03-007

		TCOV-03-009	TCON-03-009
		TCOV-03-015	TCON-03-015
		TCOV-03-020	TCON-03-020
TC-03-029	medicineCode = 4514 price = 50.00	TCOV-03-001	TCON-03-001
		TCOV-03-004	TCON-03-004
		TCOV-03-007	TCON-03-007
		TCOV-03-009	TCON-03-009
		TCOV-03-015	TCON-03-015
		TCOV-03-021	TCON-03-021
TC-03-030	medicineCode = 4514 price = 51.00	TCOV-03-001	TCON-03-001
		TCOV-03-006	TCON-03-006
		TCOV-03-007	TCON-03-007
		TCOV-03-010	TCON-03-010
		TCOV-03-015	TCON-03-015
		TCOV-03-022	TCON-03-022
TC-03-031	medicineCode = 4515 price = 0.00	TCOV-03-003	TCON-03-003
		TCOV-03-005	TCON-03-005
		TCOV-03-008	TCON-03-008
		TCOV-03-010	TCON-03-010
		TCOV-03-016	TCON-03-016
		TCOV-03-017	TCON-03-017
TC-03-032	medicineCode = 4515 price = 1.00	TCOV-03-003	TCON-03-003
		TCOV-03-004	TCON-03-004
		TCOV-03-008	TCON-03-008

		TCOV-03-009	TCON-03-009
		TCOV-03-016	TCON-03-016
		TCOV-03-018	TCON-03-018
TC-03-033	medicineCode = 4515 price = 2.00	TCOV-03-003	TCON-03-003
		TCOV-03-004	TCON-03-004
		TCOV-03-008	TCON-03-008
		TCOV-03-009	TCON-03-009
		TCOV-03-016	TCON-03-016
		TCOV-03-019	TCON-03-019
TC-03-034	medicineCode = 4515 price =49.00	TCOV-03-003	TCON-03-003
		TCOV-03-004	TCON-03-004
		TCOV-03-008	TCON-03-008
		TCOV-03-009	TCON-03-009
		TCOV-03-016	TCON-03-016
		TCOV-03-020	TCON-03-020
TC-03-035	medicineCode = 4515 price = 50.00	TCOV-03-003	TCON-03-003
		TCOV-03-004	TCON-03-004
		TCOV-03-008	TCON-03-008
		TCOV-03-009	TCON-03-009
		TCOV-03-016	TCON-03-016
		TCOV-03-021	TCON-03-021
TC-03-036	medicineCode = 4515 price = 51.00	TCOV-03-003	TCON-03-003
		TCOV-03-006	TCON-03-006
		TCOV-03-008	TCON-03-008

		TCOV-03-010	TCON-03-010
		TCOV-03-016	TCON-03-016
		TCOV-03-022	TCON-03-022
TC-03-037	medicineCode < 4000 price = “don’t care”	TCOV-03-023	TCON-03-023
			TCON-03-025
TC-03-038	medicineCode > 4514 price = “don’t care”	TCOV-03-027	TCON-03-023
			TCON-03-025
TC-03-039	Add Medicine Main Flow	TCOV-03-001	TCON-03-001
		TCOV-03-004	TCON-03-004
		TCOV-03-007	TCON-03-007
		TCOV-03-009	TCON-03-009
		TCOV-03-029	TCON-03-028
TC-03-040	Add medicine AlternateFlow - Invalid Id	TCOV-03-002	TCON-03-002
		TCOV-03-003	TCON-03-003
		TCOV-03-008	TCON-03-008
		TCOV-03-030	TCON-03-029
TC-03-041	Add medicine AlternateFlow - Invalid price	TCOV-03-001	TCON-03-001
		TCOV-03-005	TCON-03-005
		TCOV-03-006	TCON-03-006
		TCOV-03-007	TCON-03-007
		TCOV-03-010	TCON-03-010
		TCOV-03-031	TCON-03-030

2.3.4 Add Nurse

Test Case ID	Description	Test Coverage ID	Test Condition ID
TC-04-001	nurseId = 7999 gender = F	TCOV-04-010	TCON-04-010
		TCOV-04-004	TCON-04-004
		TCOV-04-007	TCON-04-007
		TCOV-04-008	TCON-04-008
		TCOV-04-023	TCON-04-02
		TCOV-04-002	TCON-04-002
TC-04-002	nurseId = 7999 gender = M	TCOV-04-010	TCON-04-010
		TCOV-04-004	TCON-04-004
		TCOV-04-007	TCON-04-007
		TCOV-04-008	TCON-04-008
		TCOV-04-023	TCON-04-023
		TCOV-04-002	TCON-04-002
TC-04-003	nurseId = 7999 gender = G	TCOV-04-010	TCON-04-010
		TCOV-04-005	TCON-04-005
		TCOV-04-007	TCON-04-007
		TCOV-04-009	TCON-04-009
		TCOV-04-023	TCON-04-023
		TCOV-04-024	TCON-04-024
		TCOV-04-002	TCON-04-002
TC-04-004	nurseId = 8000 gender = F	TCOV-04-011	TCON-04-011
		TCOV-04-004	TCON-04-004

		TCOV-04-006	TCON-04-006
		TCOV-04-008	TCON-04-008
		TCOV-04-022	TCON-04-022
		TCOV-04-001	TCON-04-001
		TCOV-04-016	TCON-04-016
		TCOV-04-018	TCON-04-018
		TCOV-04-021	TCON-04-021
TC-04-005	nurseId = 8000 gender = M	TCOV-04-011	TCON-04-011
		TCOV-04-004	TCON-04-004
		TCOV-04-006	TCON-04-006
		TCOV-04-008	TCON-04-008
		TCOV-04-022	TCON-04-022
		TCOV-04-001	TCON-04-001
		TCOV-04-016	TCON-04-016
		TCOV-04-017	TCON-04-017
		TCOV-04-021	TCON-04-021
TC-04-006	nurseId = 8000 gender = O	TCOV-04-011	TCON-04-011
		TCOV-04-005	TCON-04-005
		TCOV-04-006	TCON-04-006
		TCOV-04-009	TCON-04-009
		TCOV-04-024	TCON-04-024
		TCOV-04-001	TCON-04-001
		TCOV-04-016	TCON-04-016
		TCOV-04-020	TCON-04-020

TC-04-007	nurseId = 8001 gender = F	TCOV-04-012	TCON-04-012
		TCOV-04-004	TCON-04-004
		TCOV-0-006	TCON-04-006
		TCOV-04-008	TCON-04-008
		TCOV-04-022	TCON-04-022
		TCOV-04-001	TCON-04-001
		TCOV-04-016	TCON-04-016
		TCOV-04-018	TCON-04-018
		TCOV-04-021	TCON-04-021
TC-04-008	nurseId = 8001 gender = M	TCOV-04-012	TCON-04-012
		TCOV-04-004	TCON-04-004
		TCOV-04-006	TCON-04-006
		TCOV-04-008	TCON-04-008
		TCOV-04-022	TCON-04-022
		TCOV-04-001	TCON-04-001
		TCOV-04-016	TCON-04-016
		TCOV-04-017	TCON-04-017
		TCOV-04-021	TCON-04-021
TC-04-009	nurseId = 8001 gender = A	TCOV-04-012	TCON-04-012
		TCOV-04-005	TCON-04-005
		TCOV-04-006	TCON-04-006
		TCOV-04-009	TCON-04-009
		TCOV-04-024	TCON-04-024
		TCOV-04-001	TCON-04-001

		TCOV-04-016	TCON-04-016
		TCOV-04-020	TCON-04-020
TC-04-010	nurseId = 9998 gender = F	TCOV-04-013	TCON-04-013
		TCOV-04-004	TCON-04-004
		TCOV-04-006	TCON-04-006
		TCOV-04-008	TCON-04-008
		TCOV-04-022	TCON-04-022
		TCOV-04-001	TCON-04-001
		TCOV-04-016	TCON-04-016
		TCOV-04-018	TCON-04-018
		TCOV-04-021	TCON-04-021
TC-04-011	nurseId = 9998 gender = M	TCOV-04-013	TCON-04-013
		TCOV-04-004	TCON-04-004
		TCOV-04-006	TCON-04-006
		TCOV-04-008	TCON-04-008
		TCOV-04-022	TCON-04-022
		TCOV-04-001	TCON-04-001
		TCOV-04-016	TCON-04-016
		TCOV-04-017	TCON-04-017
		TCOV-04-021	TCON-04-021
TC-04-012	nurseId = 9998 gender = B	TCOV-04-013	TCON-04-013
		TCOV-04-005	TCON-04-005
		TCOV-04-006	TCON-04-006
		TCOV-04-009	TCON-04-009

		TCOV-04-024	TCON-04-024
		TCOV-04-001	TCON-04-001
		TCOV-04-016	TCON-04-016
		TCOV-04-020	TCON-04-020
TC-04-013	nurseId = 9999 gender = F	TCOV-04-014	TCON-04-014
		TCOV-04-004	TCON-04-004
		TCOV-04-006	TCON-04-006
		TCOV-04-008	TCON-04-008
		TCOV-04-022	TCON-04-022
		TCOV-04-001	TCON-04-001
		TCOV-04-016	TCON-04-016
		TCOV-04-018	TCON-04-018
		TCOV-04-021	TCON-04-021
TC-04-014	nurseId = 9999 gender = M	TCOV-04-014	TCON-04-014
		TCOV-04-004	TCON-04-004
		TCOV-04-006	TCON-04-006
		TCOV-04-008	TCON-04-008
		TCOV-04-022	TCON-04-022
		TCOV-04-001	TCON-04-001
		TCOV-04-016	TCON-04-016
		TCOV-04-017	TCON-04-017
		TCOV-04-021	TCON-04-021
TC-04-015	nurseId = 9999 gender = K	TCOV-04-014	TCON-04-014
		TCOV-04-005	TCON-04-005

		TCOV-04-006	TCON-04-006
		TCOV-04-009	TCON-04-009
		TCOV-04-024	TCON-04-024
		TCOV-04-001	TCON-04-001
		TCOV-04-016	TCON-04-016
		TCOV-04-020	TCON-04-020
TC-04-016	nurseId = 10000 gender = F	TCOV-04-015	TCON-04-015
		TCOV-04-004	TCON-04-004
		TCOV-04-007	TCON-04-007
		TCOV-04-008	TCON-04-008
		TCOV-04-023	TCON-04-023
		TCOV-04-003	TCON-04-003
TC-04-017	nurseId = 10000 gender = M	TCOV-04-015	TCON-04-015
		TCOV-04-004	TCON-04-004
		TCOV-04-007	TCON-04-007
		TCOV-04-008	TCON-04-008
		TCOV-04-023	TCON-04-023
		TCOV-04-003	TCON-04-003
TC-04-018	nurseId = 10000 gender = Y	TCOV-04-015	TCON-04-015
		TCOV-04-005	TCON-04-005
		TCOV-04-007	TCON-04-007
		TCOV-04-009	TCON-04-009
		TCOV-04-023	TCON-04-023
		TCOV-04-024	TCON-04-024

		TCOV-04-003	TCON-04-003
TC-04-019	nurseId = 9 gender = Don’t care	TCOV-04-016	TCON-04-016
		TCOV-04-017	TCON-04-017
		TCOV-04-018	TCON-04-018
		TCOV-04-019	TCON-04-019
		TCOV-04-023	TCON-04-023
TC-04-020	nurseId = 10025 gender = Don’t care	TCOV-04-016	TCON-04-016
		TCOV-04-017	TCON-04-017
		TCOV-04-018	TCON-04-019
		TCOV-04-019	TCON-04-019
		TCOV-04-023	TCON-04-023
TC-03-021	Add Nurse Main Flow	TCOV-04-011	TCON-04-011
		TCOV-04-004	TCON-04-004
		TCOV-04-006	TCON-04-006
		TCOV-04-008	TCON-04-008
		TCOV-04-022	TCON-04-022
		TCOV-04-001	TCON-04-001
		TCOV-04-016	TCON-04-016
		TCOV-04-018	TCON-04-018
		TCOV-04-021	TCON-04-021
		TCOV-04-017	TCON-04-017
		TCOV-04-012	TCON-04-012
		TCOV-04-013	TCON-04-013
		TCOV-04-014	TCON-04-014

TC-03-022	Add Nurse AlternateFlow - Invalid nurseID	TCOV-04-010	TCON-04-010
		TCOV-04-004	TCON-04-004
		TCOV-04-007	TCON-04-007
		TCOV-04-008	TCON-04-008
		TCOV-04-023	TCON-04-02
		TCOV-04-002	TCON-04-002
		TCOV-04-015	TCON-04-015
TC-03-023	Add Nurse AlternateFlow - Invalid gender	TCOV-04-011	TCON-04-011
		TCOV-04-005	TCON-04-005
		TCOV-04-006	TCON-04-006
		TCOV-04-009	TCON-04-009
		TCOV-04-024	TCON-04-024
		TCOV-04-001	TCON-04-001
		TCOV-04-016	TCON-04-016
		TCOV-04-020	TCON-04-020
		TCOV-04-012	TCON-04-012
		TCOV-04-013	TCON-04-013
		TCOV-04-014	TCON-04-014

2.3.5 Add Room

Test Case ID	Description	Test Coverage ID	Test Condition ID
TC-05-001	roomNo = 000 charges = 99.99	TCOV-05-001	TCON-05-001
		TCOV-05-005	TCON-05-005
		TCOV-05-006	TCON-05-006
		TCOV-05-010	TCON-05-010
		TCOV-05-011	TCON-05-011
		TCOV-05-017	TCON-05-017
TC-05-002	roomNo = 000 charges = 100.00	TCOV-05-001	TCON-05-001
		TCOV-05-005	TCON-05-005
		TCOV-05-007	TCON-05-007
		TCOV-05-009	TCON-05-009
		TCOV-05-011	TCON-05-011
		TCOV-05-018	TCON-05-018
TC-05-003	roomNo = 000 charges = 100.01	TCOV-05-001	TCON-05-001
		TCOV-05-005	TCON-05-005
		TCOV-05-007	TCON-05-007
		TCOV-05-009	TCON-05-009
		TCOV-05-011	TCON-05-011
		TCOV-05-019	TCON-05-019
TC-05-004	roomNo = 000 charges = 1999.99	TCOV-05-001	TCON-05-001
		TCOV-05-005	TCON-05-005
		TCOV-05-007	TCON-05-007

		TCOV-05-009	TCON-05-009
		TCOV-05-011	TCON-05-011
		TCOV-05-020	TCON-05-020
TC-05-005	roomNo = 000 charges = 2000.00	TCOV-05-001	TCON-05-001
		TCOV-05-005	TCON-05-005
		TCOV-05-007	TCON-05-007
		TCOV-05-009	TCON-05-009
		TCOV-05-011	TCON-05-011
		TCOV-05-021	TCON-05-021
TC-05-006	roomNo = 000 charges = 2000.01	TCOV-05-001	TCON-05-001
		TCOV-05-005	TCON-05-005
		TCOV-05-008	TCON-05-008
		TCOV-05-010	TCON-05-010
		TCOV-05-011	TCON-05-011
		TCOV-05-022	TCON-05-022
TC-05-007	roomNo = 001 charges = 99.99	TCOV-05-002	TCON-05-002
		TCOV-05-004	TCON-05-004
		TCOV-05-006	TCON-05-006
		TCOV-05-010	TCON-05-010
		TCOV-05-012	TCON-05-012
		TCOV-05-017	TCON-05-017
TC-05-008	roomNo = 001 charges = 100.00	TCOV-05-002	TCON-05-002
		TCOV-05-004	TCON-05-004
		TCOV-05-007	TCON-05-007

		TCOV-05-009	TCON-05-009
		TCOV-05-012	TCON-05-012
		TCOV-05-018	TCON-05-018
TC-05-009	roomNo = 001 charges = 100.01	TCOV-05-002	TCON-05-002
		TCOV-05-004	TCON-05-004
		TCOV-05-007	TCON-05-007
		TCOV-05-009	TCON-05-009
		TCOV-05-012	TCON-05-012
		TCOV-05-019	TCON-05-019
TC-05-010	roomNo = 001 charges = 1999.99	TCOV-05-002	TCON-05-002
		TCOV-05-004	TCON-05-004
		TCOV-05-007	TCON-05-007
		TCOV-05-009	TCON-05-009
		TCOV-05-012	TCON-05-012
		TCOV-05-020	TCON-05-020
TC-05-011	roomNo = 001 charges = 2000.00	TCOV-05-002	TCON-05-002
		TCOV-05-004	TCON-05-004
		TCOV-05-007	TCON-05-007
		TCOV-05-009	TCON-05-009
		TCOV-05-012	TCON-05-012
		TCOV-05-021	TCON-05-021
TC-05-012	roomNo = 001 charges = 2000.01	TCOV-05-002	TCON-05-002
		TCOV-05-004	TCON-05-004
		TCOV-05-008	TCON-05-008

		TCOV-05-010	TCON-05-010
		TCOV-05-012	TCON-05-012
		TCOV-05-022	TCON-05-022
TC-05-013	roomNo = 002 charges = 99.99	TCOV-05-002	TCON-05-002
		TCOV-05-004	TCON-05-004
		TCOV-05-006	TCON-05-006
		TCOV-05-010	TCON-05-010
		TCOV-05-013	TCON-05-013
		TCOV-05-017	TCON-05-017
TC-05-014	roomNo = 002 charges = 100.00	TCOV-05-002	TCON-05-002
		TCOV-05-004	TCON-05-004
		TCOV-05-007	TCON-05-007
		TCOV-05-009	TCON-05-009
		TCOV-05-013	TCON-05-013
		TCOV-05-018	TCON-05-018
TC-05-015	roomNo = 002 charges = 100.01	TCOV-05-002	TCON-05-002
		TCOV-05-004	TCON-05-004
		TCOV-05-007	TCON-05-007
		TCOV-05-009	TCON-05-009
		TCOV-05-013	TCON-05-013
		TCOV-05-019	TCON-05-019
TC-05-016	roomNo = 002 charges = 1999.99	TCOV-05-002	TCON-05-002
		TCOV-05-004	TCON-05-004
		TCOV-05-007	TCON-05-007

		TCOV-05-009	TCON-05-009
		TCOV-05-013	TCON-05-013
		TCOV-05-020	TCON-05-020
TC-05-017	roomNo = 002 charges = 2000.00	TCOV-05-002	TCON-05-002
		TCOV-05-004	TCON-05-004
		TCOV-05-007	TCON-05-007
		TCOV-05-009	TCON-05-009
		TCOV-05-013	TCON-05-013
		TCOV-05-021	TCON-05-021
TC-05-018	roomNo = 002 charges = 2000.01	TCOV-05-002	TCON-05-002
		TCOV-05-004	TCON-05-004
		TCOV-05-008	TCON-05-008
		TCOV-05-010	TCON-05-010
		TCOV-05-013	TCON-05-013
		TCOV-05-022	TCON-05-022
TC-05-019	roomNo = 398 charges = 99.99	TCOV-05-002	TCON-05-002
		TCOV-05-004	TCON-05-004
		TCOV-05-006	TCON-05-006
		TCOV-05-010	TCON-05-010
		TCOV-05-014	TCON-05-014
		TCOV-05-017	TCON-05-017
TC-05-020	roomNo = 398 charges = 100.00	TCOV-05-002	TCON-05-002
		TCOV-05-004	TCON-05-004
		TCOV-05-007	TCON-05-007

		TCOV-05-009	TCON-05-009
		TCOV-05-014	TCON-05-014
		TCOV-05-018	TCON-05-018
TC-05-021	roomNo = 398 charges = 100.01	TCOV-05-002	TCON-05-002
		TCOV-05-004	TCON-05-004
		TCOV-05-007	TCON-05-007
		TCOV-05-009	TCON-05-009
		TCOV-05-014	TCON-05-014
		TCOV-05-019	TCON-05-019
TC-05-022	roomNo = 398 charges = 1999.99	TCOV-05-002	TCON-05-002
		TCOV-05-004	TCON-05-004
		TCOV-05-007	TCON-05-007
		TCOV-05-009	TCON-05-009
		TCOV-05-014	TCON-05-014
		TCOV-05-020	TCON-05-020
TC-05-023	roomNo = 398 charges = 2000.00	TCOV-05-002	TCON-05-002
		TCOV-05-004	TCON-05-004
		TCOV-05-007	TCON-05-007
		TCOV-05-009	TCON-05-009
		TCOV-05-014	TCON-05-014
		TCOV-05-021	TCON-05-021
TC-05-024	roomNo = 398 charges = 2000.01	TCOV-05-002	TCON-05-002
		TCOV-05-004	TCON-05-004
		TCOV-05-008	TCON-05-008

		TCOV-05-010	TCON-05-010
		TCOV-05-014	TCON-05-014
		TCOV-05-022	TCON-05-022
TC-05-025	roomNo = 399 charges = 99.99	TCOV-05-002	TCON-05-002
		TCOV-05-004	TCON-05-004
		TCOV-05-006	TCON-05-006
		TCOV-05-010	TCON-05-010
		TCOV-05-015	TCON-05-015
		TCOV-05-017	TCON-05-017
TC-05-026	roomNo = 399 charges = 100.00	TCOV-05-002	TCON-05-002
		TCOV-05-004	TCON-05-004
		TCOV-05-007	TCON-05-007
		TCOV-05-009	TCON-05-009
		TCOV-05-015	TCON-05-015
		TCOV-05-018	TCON-05-018
TC-05-027	roomNo = 399 charges = 100.01	TCOV-05-002	TCON-05-002
		TCOV-05-004	TCON-05-004
		TCOV-05-007	TCON-05-007
		TCOV-05-009	TCON-05-009
		TCOV-05-015	TCON-05-015
		TCOV-05-019	TCON-05-019
TC-05-028	roomNo = 399 charges = 1999.99	TCOV-05-002	TCON-05-002
		TCOV-05-004	TCON-05-004
		TCOV-05-007	TCON-05-007

		TCOV-05-009	TCON-05-009
		TCOV-05-015	TCON-05-015
		TCOV-05-020	TCON-05-020
TC-05-029	roomNo = 399 charges = 2000.00	TCOV-05-002	TCON-05-002
		TCOV-05-004	TCON-05-004
		TCOV-05-007	TCON-05-007
		TCOV-05-009	TCON-05-009
		TCOV-05-015	TCON-05-015
		TCOV-05-021	TCON-05-021
TC-05-030	roomNo = 399 charges = 2000.01	TCOV-05-002	TCON-05-002
		TCOV-05-004	TCON-05-004
		TCOV-05-008	TCON-05-008
		TCOV-05-010	TCON-05-010
		TCOV-05-015	TCON-05-015
		TCOV-05-022	TCON-05-022
TC-05-031	roomNo = 400 charges = 99.99	TCOV-05-003	TCON-05-003
		TCOV-05-005	TCON-05-005
		TCOV-05-006	TCON-05-006
		TCOV-05-010	TCON-05-010
		TCOV-05-016	TCON-05-016
		TCOV-05-017	TCON-05-017
TC-05-032	roomNo = 400 charges = 100.00	TCOV-05-003	TCON-05-003
		TCOV-05-005	TCON-05-005
		TCOV-05-007	TCON-05-007

		TCOV-05-009	TCON-05-009
		TCOV-05-016	TCON-05-016
		TCOV-05-018	TCON-05-018
TC-05-033	roomNo = 400 charges = 100.01	TCOV-05-003	TCON-05-003
		TCOV-05-005	TCON-05-005
		TCOV-05-007	TCON-05-007
		TCOV-05-009	TCON-05-009
		TCOV-05-016	TCON-05-016
		TCOV-05-019	TCON-05-019
TC-05-034	roomNo = 400 charges = 1999.99	TCOV-05-003	TCON-05-003
		TCOV-05-005	TCON-05-005
		TCOV-05-007	TCON-05-007
		TCOV-05-009	TCON-05-009
		TCOV-05-016	TCON-05-016
		TCOV-05-020	TCON-05-020
TC-05-035	roomNo = 400 charges = 2000.00	TCOV-05-003	TCON-05-003
		TCOV-05-005	TCON-05-005
		TCOV-05-007	TCON-05-007
		TCOV-05-009	TCON-05-009
		TCOV-05-016	TCON-05-016
		TCOV-05-021	TCON-05-021
TC-05-036	roomNo = 400 charges = 2000.01	TCOV-05-003	TCON-05-003
		TCOV-05-005	TCON-05-005
		TCOV-05-008	TCON-05-008

		TCOV-05-010	TCON-05-010
		TCOV-05-016	TCON-05-016
		TCOV-05-022	TCON-05-022
TC-05-037	roomNo = 000 charges = “don’t care”	TCOV-05-023	TCON-05-023
TC-05-038	roomNo = 400 charges = “don’t care”	TCOV-05-025	TCON-05-025
TC-05-039	Add Room Main Flow	TCOV-05-002	TCON-05-002
		TCOV-05-004	TCON-05-004
		TCOV-05-007	TCON-05-007
		TCOV-05-009	TCON-05-009
		TCOV-05-028	TCON-05-028
TC-05-040	Add Room Alternate Flow - Invalid roomNo	TCOV-05-001	TCON-05-001
		TCOV-05-003	TCON-05-003
		TCOV-05-005	TCON-05-005
		TCOV-05-029	TCON-05-029
TC-05-041	Add Room Alternate Flow - Invalid charges	TCOV-05-001	TCON-05-001
		TCOV-05-004	TCON-05-004
		TCOV-05-006	TCON-05-006
		TCOV-05-008	TCON-05-008
		TCOV-05-010	TCON-05-010
		TCOV-05-030	TCON-05-030

2.4 Features Pass/Fail Criteria

The system must satisfy the following criteria in order to pass:

I. Add Room
- Pass Criteria: Successfully adds a new room to the system.
- Fail Criteria: Failure to add a room due to system error or incorrect data entry.

II. Add Doctor
- Pass Criteria: Successfully adds a new doctor to the system.
- Fail Criteria: Failure to add a doctor due to system error or incomplete information.

III. Add Patient
- Pass Criteria: Successfully adds a new patient to the system.
- Fail Criteria: Failure to add a patient due to system error or incomplete/incorrect information.

IV. Add Nurse
- Pass Criteria: Successfully adds a new nurse to the system.
- Fail Criteria: Failure to add a nurse due to system error or incomplete information.

V. Add Medicine
- Pass Criteria: Successfully adds a new medicine to the system.
- Fail Criteria: Failure to add a medicine due to system error or incomplete information.

2.5 Test Deliverables

The following documents will be generated by the system test group and will be delivered during the system testing.

Test documentation:

I. Test Plan
II. Test Transmittal Report
III. Test Design Specifications
IV. Test Case Specifications
V. Test Procedure Specifications
VI. Test Logs
VII. Test Incident Reports
VIII. Test Summary Reports
IX. Test Completion Report