Updated Use Case Assignments

1. Administrator:

Manage user accounts

Assign roles and permissions

Configure system settings

Generate reports

Manage hospital departments

Manage hospital rooms and beds

Track hospital equipment and inventory

Generate statistical reports

1. Doctor:

View patient records

Create/manage prescriptions

Schedule appointments

Order lab tests

Update patient status

1. Nurse:

View patient records

Administer medications

Monitor patient vital signs

Update patient status

Communicate with doctors

1. Receptionist:

Register new patients

Schedule appointments

Manage patient waiting list

Handle patient queries

Process billing and insurance

1. Patient:

View appointment schedule

Access medical records

Request prescription refills

Pay bills online

Communicate with hospital staff

1. Lab Technician:

Receive lab test requests

Conduct lab tests

Enter test results

Manage lab inventory

Communicate with doctors

1. Pharmacist:

Manage medication inventory

Fill prescriptions

Dispense medications

Update patient medication records

Communicate with doctors

1. Radiologist:

View imaging requests

Conduct imaging tests

Interpret test results

Update patient records

Communicate with doctors

1. Surgeon:

Schedule surgeries

View patient records

Conduct surgeries

Update patient status

Communicate with hospital staff

1. Emergency Response Team (new actor):

Handle emergency situations

1. Insurance Coordinator (new actor):

Integrate with insurance providers

1. Refined Use Case Diagram for Mobile App

Actors: Patient, Doctor, Nurse

Use Cases:

Patient:

View appointment schedule

Access medical records

Request prescription refills

Pay bills online

Communicate with hospital staff

Doctor:

View patient records

Create/manage prescriptions

Schedule appointments

Update patient status

Nurse:

View patient records

Administer medications

Monitor patient vital signs

Update patient status

Diagram Representation:

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| Patient |

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|-- View appointment schedule

|-- Access medical records

|-- Request prescription refills

|-- Pay bills online

|-- Communicate with hospital staff

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| Doctor |

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|-- View patient records

|-- Create/manage prescriptions

|-- Schedule appointments

|-- Update patient status

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| Nurse |

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|-- View patient records

|-- Administer medications

|-- Monitor patient vital signs

|-- Update patient status

1. Refined Use Case Diagram for Desktop Application

Actors: Administrator, Receptionist, Lab Technician, Pharmacist, Radiologist, Surgeon, Emergency Response Team, Insurance Coordinator

Use Cases:

Administrator:

Manage user accounts

Assign roles and permissions

Configure system settings

Generate reports

Manage hospital departments

Manage hospital rooms and beds

Track hospital equipment and inventory

Generate statistical reports

Receptionist:

Register new patients

Schedule appointments

Manage waiting list

Handle patient queries

Process billing and insurance

Lab Technician:

Receive lab test requests

Conduct lab tests

Enter test results

Manage lab inventory

Communicate with doctors

Pharmacist:

Manage medication inventory

Fill prescriptions

Dispense medications

Update patient medication records

Communicate with doctors

Radiologist:

View imaging requests

Conduct imaging tests

Interpret test results

Update patient records

Communicate with doctors

Surgeon:

Schedule surgeries

View patient records

Conduct surgeries

Update patient status

Communicate with hospital staff

Emergency Response Team:

Handle emergency situations

Insurance Coordinator:

Integrate with insurance providers

Diagram Representation:

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| Administrator |

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|-- Manage user accounts

|-- Assign roles and permissions

|-- Configure system settings

|-- Generate reports

|-- Manage hospital departments

|-- Manage hospital rooms and beds

|-- Track hospital equipment and inventory

|-- Generate statistical reports

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| Receptionist |

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|-- Register new patients

|-- Schedule appointments

|-- Manage waiting list

|-- Handle patient queries

|-- Process billing and insurance

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| Lab Technician |

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|-- Receive lab test requests

|-- Conduct lab tests

|-- Enter test results

|-- Manage lab inventory

|-- Communicate with doctors

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| Pharmacist |

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|-- Manage medication inventory

|-- Fill prescriptions

|-- Dispense medications

|-- Update patient medication records

|-- Communicate with doctors

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| Radiologist |

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|-- View imaging requests

|-- Conduct imaging tests

|-- Interpret test results

|-- Update patient records

|-- Communicate with doctors

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| Surgeon |

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|-- Schedule surgeries

|-- View patient records

|-- Conduct surgeries

|-- Update patient status

|-- Communicate with hospital staff

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| Emergency Response |

| Team |

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|-- Handle emergency situations

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| Insurance Coordinator|

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|-- Integrate with insurance providers

1. Shared Features Use Case Diagram

Actors: All actors

Shared Use Cases:

Handle emergency situations (Emergency Response Team)

Integrate with insurance providers (Insurance Coordinator)

Diagram Representation:

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| All Actors |

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|-- Handle emergency situations

|-- Integrate with insurance providers

Summary

Mobile App Use Case Diagram: Focuses on patient, doctor, and nurse interactions, emphasizing accessibility and communication.

Desktop Application Use Case Diagram: Now includes detailed roles and actions for the Administrator, Receptionist, Lab Technician, Pharmacist, Radiologist, Surgeon, as well as new actors for emergency response and insurance coordination.

Shared Features Use Case Diagram: Highlights specific shared functionalities for emergency response and insurance integration.

Feel free to ask if you need any adjustments or further details!