Pseudocode:

FUNCTION main():

PRINT “Hospital Management System"

WHILE True:

PRINT "1. Add a new patient"

PRINT "2. Add a new doctor"

PRINT "3. Schedule an appointment"

PRINT "4. View upcoming appointments for a doctor"

PRINT "5. Add a disease record"

PRINT "6. Link a disease to medication"

PRINT "7. Exit"

CHOICE = INPUT("Enter your choice: ")

IF CHOICE == "1":

CALL add\_new\_patient()

ELIF CHOICE == "2":

CALL add\_new\_doctor()

ELIF CHOICE == "3":

CALL schedule\_appointment()

ELIF CHOICE == "4":

CALL view\_appointments()

ELIF CHOICE == "5":

CALL add\_disease\_record()

ELIF CHOICE == "6":

CALL link\_disease\_to\_medication()

ELIF CHOICE == "7":

PRINT "Exiting system. Goodbye!"

BREAK

ELSE:

PRINT "Invalid choice. Please try again."

END FUNCTION

**#for adding a new patient**:

FUNCTION add\_new\_patient():

PRINT "Enter patient details:"

Patient\_Name = INPUT("Name: ")

Date\_Of\_Birth = INPUT("Age: ")

Assigned\_Doctor = INPUT("Doctor\_Name: ")

Address = INPUT("Address: ")

QUERY = f"""

INSERT INTO patients (Patient\_Name, Date\_Of\_Birth, Assigned\_Doctor, Address)

VALUES ('{ Patient\_Name }', { Date\_Of\_Birth }, '{ Assigned\_Doctor }', '{ Address }')

"""

EXECUTE QUERY

PRINT "Patient added successfully."

END FUNCTION

**#For adding a new doctor:**

FUNCTION add\_new\_doctor():

PRINT "Enter doctor details:"

Doctor\_Name = INPUT("Name: ")

Hospital\_ID = INPUT("Specialization: ")

QUERY = f"""

INSERT INTO doctors (Doctor\_Name, Hospital\_ID)

VALUES ('{ Doctor\_Name }', '{ Hospital\_ID }')

"""

EXECUTE QUERY

PRINT "Doctor added successfully."

END FUNCTION

**#for scheduling appointment**

FUNCTION schedule\_appointment():

PRINT "Enter appointment details:"

Patient\_ID = INPUT("Patient\_ID: ")

Doctor\_ID = INPUT("Doctor\_ID: ")

Appointment\_Date = INPUT("Appointment\_ Date (YYYY-MM-DD): ")

QUERY = f"""

INSERT INTO appointments (Patient\_ID, Doctor\_ID, Appointment\_Date)

VALUES ({Patient\_ID }, { Doctor\_ID }, '{ Appointment\_Date }')

"""

EXECUTE QUERY

PRINT "Appointment scheduled successfully."

END FUNCTION

**#for Viewing appointments**

FUNCTION view\_appointments():

PRINT "Enter Doctor ID to view appointments:"

Doctor\_ID = INPUT("Doctor ID: ")

QUERY = f"""

SELECT Appointment\_Date, Patient\_ID

FROM appointments

WHERE Doctor\_ID = {DOCTOR\_ID} AND Appointment\_Date > CURRENT\_DATE

ORDER BY Appointment\_Date ASC

"""

RESULTS = EXECUTE QUERY

PRINT "Upcoming Appointments:"

FOR RECORD IN RESULTS:

PRINT f"Date: {RECORD['Appointment\_Date']}, Patient ID: {RECORD['Patient\_ID']}"

END FUNCTION

**#for adding a disease record**

FUNCTION add\_disease\_record():

PRINT "Enter disease details:"

Disease\_Name = INPUT("Disease Name: ")

Medication\_ID = INPUT("Medication ID: ")

Specialist\_Doctor = INPUT("Specialist Doctor : ")

QUERY = f"""

INSERT INTO diseases (Disease\_Name, Medication\_ID, Specialist\_Doctor)

VALUES ('{ Disease\_Name }', { Medication\_ID }, { Specialist\_Doctor })

"""

EXECUTE QUERY

PRINT "Disease record added successfully."

END FUNCTION

**#for Linking Disease to medication**:

FUNCTION link\_disease\_to\_medication():

PRINT "Enter Disease ID and Medication ID:"

Disease\_ID = INPUT("Disease ID: ")

Medication\_ID = INPUT("Medication ID: ")

QUERY = f"""

UPDATE diseases

SET Medication\_ID = { Medication\_ID }

WHERE ID = {Disease\_ID}

"""

EXECUTE QUERY

PRINT "Disease linked to medication successfully."

END FUNCTION