**Requirement Document**

**ROYAL HOSPITAL MANAGEMENT SYSTEM**

ICT1222 – Database Management Systems Practicum

Bachelor of Information and Communication Technology

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## Name of the System

**ROYAL HOSPITAL MANAGEMENT SYSTEM**

1. Features/Modules of the system to be implemented

* Patient management system.
* Doctor management system.
* Drug management system.
* Administrative rights management system.
* Invoice management system.
* Medicine and Pharmacy management system.
* Lab test system.
* The three-tier structure
* Optimization of processes
* Financial Audit and Tax Calculation
* Digitalization of medical records
* Patient care
* Insured events accounting

## List all the features to be implemented

* The three-tier structure
* Optimization of processes
* Financial Audit and Tax Calculation
* Digitalization of medical records
* Patient care
* Insured events accounting

1. Requirements under each Module

## **Patients**

**REGISTRATION**

DESCRIPTION: The new patient can register themselves and add their details like name,

age, gender, blood group etc. The patient entry will be made in the HMS database.

PRE -CONDITION – The patient must be a new patient, If necessary, fields left by user

then prompt user to fill the necessary fields.

MAIN FLOW OF EVENTS OR REQUIREMENT

1. Patient selects sign up in login module.

2. A registration form get displayed

3. Patient fills the required details.

POST CONDITIONS - Patient record is added to HMS database.

**UPDATION**

DESCRIPTION-The patient should be enabled to update his/her details and the changes should reflect in HMS database.

PRE-CONDITION – The patient must be a registered patient; The patient cannot update details after treatment starts.

MAIN FLOW OF EVENTS OR REQUIREMENT

1. Patient logs in to the system.

2. Patient view his record

3. Patient selects update details.

4. Now patient may change the necessary fields.

5. Pop of update details.

POST CONDITION - The record of patient is updated in HMS database.

**APPOINTMENT**

DESCRIPTION – It shows users a list of available doctors, timings, dates and enables patients to select the most suitable appointment date and doctor. The patient may also the cancel the appointment.

PRE-CONDITION - The patient must be a registered patient, Patient can fix only one appointment for a particular department.

MAIN FLOW OF EVENT OR REQUIREMENT

1. Patient first logs in to system.

2. View his/her record.

3. Create a new appointment or cancel the appointment.

POST CONDITIONS - patient details are displayed, and a new appointment is fix or an existing appointment is cancelled. The HMS database is updated.

## **Doctor**

DESCRIPTION- The doctor view patient record/ update his details and add description of the treatment given to patient.

PRE-CONDITION – The doctor must be a registered doctor, System does not allow the doctor to modify the qualification, hospital managed details.

MAIN FLOW OF EVENTS OR REQUIREMENT

1.Doctor logs in to the system.

2. Doctor may select view patient.

2.1 Patient record is displayed with treatment history.

3. Doctor add description of patient treatment.

4. Doctor may select appointment details

4.1 Appointment Requests is displayed with schedule.

5. Doctor confirm or cancel appointment.

## **Laboratory**

DESCRIPTION – It gives way to see the test reports and test requirements.

PRE-CONDITION – The viewer must be doctor or related department person. Authorized person only accesses the report.

MAIN FLOW OF EVENT OR REQUIREMENT

1. Authorized person log into the system.

2. Select the patient record or report.

3. View the laboratory available or not.

4. Store the daily updates.

5. Retrieve the records.

POST CONDITIONS – Laboratory available will be displayed and can access reports and records.

## **Room**

DESCRIPTION – This gives details of availability of rooms and details of rooms as per need.

PRE-CONDITION – Details of patients or who will stay in the room and confirmation details.

MAIN FLOW OF EVENT OR REQUIREMENT

1. View the Room availability.

2. Select the room.

3. View the Room information.

4. Store and view the assign person details.

5. View the working staff in room.

6. Confirm the room.

POST CONDITIONS – Room available will be displayed and also can view the check in check out details.

## **Inpatient**

MAIN FLOW OF EVENT OR REQUIREMENT

1. View the Inpatient details.

2. Select the inpatient.

3. View the disease information.

4. Store and Retrieve the Inpatient details.

5. View the details of doctor of inpatient.

6. View details of the inpatient room.

7. View details of the admitted date and time.

8. View details of the relations(parents).

* 1. **Outpatient**

MAIN FLOW OF EVENT OR REQUIREMENT

1. View the Outpatient details.

2. Select the Outpatient.

3. View the disease information.

4. Store and Retrieve the Outpatient details.

5. View the details of doctor of Outpatient.

6. View details of the final health condition.

7. View details of the checkout date and time.

8. View details of the relations(parents).

## **Bill**

DESCRIPTION – It enables user to pay the consultant fee of Doctor online.

PRE-CONDITION - The patient must be a registered patient, If Patient don’t wants to pay online he/she can pay by cash also.

MAIN FLOW OF EVENT OR REQUIREMENT

1. Patient first logs in to system.

2. View his/her record.

3. Appointment confirmed by the Doctor then go for Payment.

**POST CONDITIONS** – A Receipt will be displayed. The HMS database is updated

5. List all the requirements under each module you mentioned above

1. Patient selects sign up in login module.

2. A registration form get displayed

3. Patient fills the required details.

4. Patient logs in to the system.

5. Patient view his record

6. Patient selects update details.

7. Now patient may change the necessary fields.

8. Pop of update details.

9. Patient first logs in to system.

10. View his/her record.

11. Create a new appointment or cancel the appointment.

12.Doctor logs in to the system.

13. Doctor may select view patient.

13.1 Patient record is displayed with treatment history.

14. Doctor add description of patient treatment.

15. Doctor may select appointment details

15.1 Appointment Requests is displayed with schedule.

16. Doctor confirm or cancel appointment.

17. Authorized person log into the system.

18. Select the patient record or report.

19. View the laboratory available or not.

20. Store the daily updates.

21. Retrieve the records.

22. View the Room availability.

23 Select the room.

24. View the Room information.

25. Store and view the assign person details.

26 View the working staff in room.

27. Confirm the room.

28. View the Inpatient details.

29. Select the inpatient.

30. View the disease information.

31. Store and Retrieve the Inpatient details.

32. View the details of doctor of inpatient.

33. View details of the inpatient room.

34. View details of the admitted date and time.

35. View details of the relations(parents).

36. View the Outpatient details.

37. Select the Outpatient.

38. View the disease information.

39. Store and Retrieve the Outpatient details.

40. View the details of doctor of Outpatient.

41. View details of the final health condition.

42. View details of the checkout date and time.

43. View details of the relations(parents).

44. Patient first logs in to system.

45. View his/her record.

46. Appointment confirmed by the Doctor then go for Payment.