**Hospital Management System (HMS)**

**HMS- 1.0 INTRODUCTION**

A Hospital Management System (HMS) is designed to automate and organize various day-to-day activities taking place in a hospital. It also stores patient and staff database for quick future access.

**HMS- 2.0 APPOINTMENTS**

**2.0.1** The System shall help in setting up patient appointments by considering each individual case and the schedule of assigned doctor.

**2.0.2** The System shall also give doctors an option to set up or cancel an appointment.

**HMS- 2.1 APPOINTMENT DATA REQUIRED**

**2.1.1** For each patient making an appointment, the system shall request the following information:

* Patient First and Last name
* Patient ID
* Patient Age
* Doctor
* Date
* Time
* Contact Number
* Reason for Visit

**HMS- 3.0 PATIENT RECORDS**

**3.0.1** The System shall maintain patient records efficiently. This information will be manually recorded and inputted into the system after the patient’s visit to the doctor.

**3.0.2** Such records shall be accessed by assigned doctors in the future.

**HMS- 4.0 STAFF RECORDS**

**4.0.1** The System shall maintain a record of doctor appointments, prescriptions given by the doctor and details of the doctor.

**4.0.2** The System shall also maintain relevant information about the nurses and other hospital staff.

**HMS- 4.1 STAFF STATIC DATA REQUIRED**

**4.1.1** For each hospital employee, the system shall request the following information:

* First and Last Name
* Staff Type
* Date of Birth
* Age
* Contact Number
* Gender

**4.1.2** This static data shall be obtained and documented when the staff member is hired.

**HMS- 4.2 STAFF ACTIVE DATA REQUIRED**

**4.2.1** For each hospital employee, the system shall request the following information:

* List of appointments

**4.2.2** This active data shall be consistently updated when changes are made.

**HMS- 5.0 PHARMACY**

**5.0.1** The System shall efficiently maintain medicine inventory and notify when a new order needs to be placed. It keeps track of Medicine ID, medicine name, quantity, and supplier.

**HMS- 5.1 REORDER SUPPLY**

For each item in 6.0, the system immediately reacts to the following situation:

* **5.1.1** When the count of an item reaches <=300, the system shall send a notification to the user with the name of the item and the number on hand.

**HMS- 6.0 INVOICE MANAGEMENT**

**6.0.1** The System shall manage patient invoices and transaction details. It keeps track of patient ID, patient name, contact number, doctor assigned, and total cost.

**HMS- 6.1 INVOICE CREATION**

For each invoice created, the system immediately reacts to the following situation:

* **6.1.1** When the doctor finishes recording procedures and medicine administered to the patient into the system, an invoice shall be generated.
* **6.1.2** The generated invoice shall add up the cost of everything administered at the appointment.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Entry #** | **Paragraph #** | **System Specification Text** | **Type** | **Build** |
| 2.0.1 | 2.0 | The System shall help in setting up patient appointments by considering each individual case and the schedule of assigned doctor. | SW | B1 |
| 2.0.2 | 2.0 | The System shall give doctors an option to set up or cancel an appointment. | SW | B1 |
| 2.1.1 | 2.1 | For each patient making an appointment, the system shall request the following information: Patient First and Last name, age, patient ID, doctor, date, time, contact number, reason for visit. | SW | B1 |
| 3.0.1 | 3.0 | The System shall maintain patient records efficiently. | SW | B2 |
| 3.0.2 | 3.0 | Such records shall be accessed by assigned doctors in the future. | SW | B2 |
| 4.0.1 | 4.0 | The System shall maintain a record of doctor appointments, prescriptions given by the doctor and details of the doctor. | SW | B2 |
| 4.0.2 | 4.0 | The System shall maintain relevant information about the nurses and other hospital staff. | SW | B2 |
| 4.1.1 | 4.1 | For each hospital employee, the system shall request the following information: first and last name, gender, date of birth, age, contact number, staff type. | SW | B2 |
| 4.1.2 | 4.1 | This static data shall be obtained and documented when the staff member is hired. | SW | B2 |
| 4.2.1 | 4.2 | For each hospital employee, the system shall request the following information: list of appointments. | SW | B2 |
| 4.2.2 | 4.2 | This active data shall be consistently updated when changes are made. | SW | B2 |
| 5.0.1 | 5.0 | The System shall efficiently maintain medicine inventory and notify when a new order needs to be placed. It keeps track of Medicine ID, medicine name, quantity, and supplier. | SW | B3 |
| 5.1.1 | 5.1 | When the count of an item reaches <=300, the system shall send a notification to the user with the name of the item and the number on hand. | SW | B3 |
| 6.0.1 | 6.0 | The System shall manage patient invoices and transaction details. It keeps track of patient ID, patient name, contact number, doctor assigned, and total cost. | SW | B4 |
| 6.1.1 | 6.1 | When the doctor finishes recording procedures and medicine administered to the patient into the system, an invoice shall be generated. | SW | B4 |
| 6.1.2 | 6.1 | The generated invoice shall add up the cost of everything administered at the appointment. | SW | B4 |