

Oncore Management System - Business Rules

1. Patient Management Rules

- **Mandatory Information:** Each patient's first name, last name, and associated address must be provided; these fields cannot be left blank.
- **Doctor Assignment:** Every patient must be assigned to a registered doctor for medical supervision.

2. Address Management Rules

- **Required Fields:** The Street Name, City, and State fields are mandatory for every address entry.
- **Data Accuracy:** Addresses must follow proper formatting guidelines to ensure consistency.

3. Doctor Management Rules

- **Mandatory Information:** Each doctor's first name, last name, and specialization must be provided; these fields cannot be left blank.
- **Patient Association:** Each doctor must be linked to at least one patient to ensure active participation in the system.

4. Medication and Drug Management Rules

- **Medication Details:**
 - The **date_administered** cannot be a future date.
 - Each medication entry must reference a valid patient, doctor, and drug to ensure accountability.
- **Drug Details:**
 - Drug names must be specified; blank entries are not permitted.
 - **Drug prices** must be greater than zero to prevent invalid entries.

5. Medical History Management Rules

- **Information Validity:**
 - Symptoms and Side Effects must be recorded if reported. Blank entries are not permitted.
 - The **symptom_detected** date must not precede the patient's registration date to ensure chronological consistency.

6. Diagnostic Test Management Rules

- **Test Information:**

- Diagnostic test names must be provided, and charges must be greater than zero.
 - **Prescribed** Diagnostic Rules:
 - The date_administered cannot be a future date.
 - Test results must be documented for completed tests to maintain comprehensive medical records.
 - Each diagnostic test entry must reference a valid patient and diagnostic test for traceability.
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7. General System Rules

- **Data Integrity:** All foreign key references must align with valid entries in their respective tables.
- **Record Management:** Deletion of patient or doctor records will prompt a warning if they are linked to active medical history, medications, or diagnostic data.
- **Automated Reminders:** Patients with pending medication refills or diagnostic appointments will receive automated notifications for improved healthcare management.
- **Pricing Policies:** Drug prices cannot exceed the defined retail price to maintain fair pricing standards.
- **Error Handling:** Critical fields such as patient name, doctor name, and drug details must be validated to prevent incomplete or incorrect data entries.