

# Hospital Management System

## Users (Registration)

Field Name	Data Type	Constraints	Description
user_id	INT	PRIMARY KEY, AUTO_INCREMENT	Unique identifier for each user
user_type	ENUM	NOT NULL	Role of the user (User, ASHA Worker, etc.)
name	VARCHAR(100)	NOT NULL	Full name of the user
email	VARCHAR(100)	UNIQUE, NOT NULL	Email address (must be unique)
password	VARCHAR(255)	NOT NULL	Encrypted password
phone_number	VARCHAR(15)	NULLABLE	Optional contact number
created_at	DATETIME	DEFAULT CURRENT_TIMESTAMP	Timestamp of account creation
updated_at	DATETIME	DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP	Timestamp of the last update

## Login

Field Name	Data Type	Constraints	Description
login_id	INT	PRIMARY KEY, AUTO_INCREMENT	Unique identifier for each login attempt.
user_id	INT	FOREIGN KEY (user_id) REFERENCES user_registration(user_id)	User associated with this login.
login_time	DATETIME	DEFAULT CURRENT_TIMESTAMP	Timestamp of the user's login.
ip_address	VARCHAR(255)	NULLABLE	IP address from which the user logged in.
login_status	ENUM('Success', 'Failure')	DEFAULT 'Success'	Status of the login attempt.

## Admins

Field Name	Data Type	Constraints	Description
admin_id	INT	PRIMARY KEY, AUTO_INCREMENT	Unique identifier for each admin
user_id	INT	NOT NULL, FOREIGN KEY	Links to Users table
goal	TEXT	NULLABLE	Goals or responsibilities of the admin

## Attendance

Field Name	Data Type	Constraints	Description
attendance_id	INT	PRIMARY KEY, AUTO_INCREMENT	Unique identifier for attendance record
user_id	INT	NOT NULL, FOREIGN KEY	Links to Users table
date	DATE	NOT NULL	Date of attendance
status	ENUM	NOT NULL	Attendance status (Present/Absent)
method	ENUM	NOT NULL	Method used (Facial Recognition/Manual)

## PatientRecords

Field Name	Data Type	Constraints	Description
record_id	INT	PRIMARY KEY, AUTO_INCREMENT	Unique identifier for each patient record
asha_worker_id	INT	NOT NULL, FOREIGN KEY	Links to Users table (ASHA Worker)
patient_name	VARCHAR(100)	NOT NULL	Name of the patient
family_health_history	TEXT	NULLABLE	Family health history
lab_reports	TEXT	NULLABLE	Lab reports for the patient

## HealthMetrics

Field Name	Data Type	Constraints	Description
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metric_id	INT	PRIMARY KEY, AUTO_INCREMENT	Unique identifier for health metrics
phn_id	INT	NOT NULL, FOREIGN KEY	Links to Users table (PHN)
child_growth_metrics	TEXT	NULLABLE	Growth metrics of children
immunization_records	TEXT	NULLABLE	Immunization records

## ScheduledVisits

Field Name	Data Type	Constraints	Description
visit_id	INT	PRIMARY KEY, AUTO_INCREMENT	Unique identifier for each visit
phn_id	INT	NOT NULL, FOREIGN KEY	Links to Users table (PHN)
visit_type	ENUM	NOT NULL	Type of visit (Maternal Health, etc.)
visit_date	DATE	NOT NULL	Date of the visit

## Medicines

Field Name	Data Type	Constraints	Description
medicine_id	INT	PRIMARY KEY, AUTO_INCREMENT	Unique identifier for each medicine
name	VARCHAR(100)	NOT NULL	Name of the medicine
stock	INT	NOT NULL	Quantity in stock
low_stock_threshold	INT	DEFAULT 10	Threshold for low stock alerts

## Prescriptions

Field Name	Data Type	Constraints	Description
prescription_id	INT	PRIMARY KEY, AUTO_INCREMENT	Unique identifier for each prescription
doctor_id	INT	NOT NULL, FOREIGN KEY	Links to Users table (Doctor)
patient_id	INT	NOT NULL, FOREIGN KEY	Links to Users table (Patient)
medicine_details	TEXT	NOT NULL	Details of prescribed medicines
prescription_date	DATETIME	DEFAULT CURRENT_TIMESTAMP	Timestamp of the prescription

## MedicineInventory

Field Name	Data Type	Constraints	Description
inventory_id	INT	PRIMARY KEY, AUTO_INCREMENT	Unique identifier for inventory action
pharmacist_id	INT	NOT NULL, FOREIGN KEY	Links to Users table (Pharmacist)
medicine_id	INT	NOT NULL, FOREIGN KEY	Links to Medicines table
action	ENUM	NOT NULL	Action performed (Add/Remove)
quantity	INT	NOT NULL	Quantity affected
action_date	DATETIME	DEFAULT CURRENT_TIMESTAMP	Timestamp of the action

## Feedback

Field Name	Data Type	Constraints	Description
feedback_id	INT	PRIMARY KEY, AUTO_INCREMENT	Unique identifier for each feedback
user_id	INT	NOT NULL, FOREIGN KEY	Links to Users table
feedback_text	TEXT	NOT NULL	Feedback text
response_text	TEXT	NULLABLE	Admin's response
created_at	DATETIME	DEFAULT CURRENT_TIMESTAMP	Timestamp of feedback creation

## PerformanceTracking

Field Name	Data Type	Constraints	Description
tracking_id	INT	PRIMARY KEY, AUTO_INCREMENT	Unique identifier for performance record
admin_id	INT	NOT NULL, FOREIGN KEY	Links to Admins table
asha_worker_id	INT	NOT NULL, FOREIGN KEY	Links to Users table (ASHA Worker)
performance_report	TEXT	NULLABLE	Report on performance