07.05.2025

**HOSPITAL MANAGEMENT SYSTEM**

**AKIRA HOSPITAL MANAGEMENT**

List of similar products:

|  |  |  |
| --- | --- | --- |
| Product name | features | URL |
| HMS | Doctor Side: Patient management, appointment scheduling, diagnosis & prescription updates.  Patient Side: Appointment booking, medical history access, secure diagnosis & prescription viewing.  System Features: Prevents clashes, enhances privacy, and ensures smooth hospital operations. | https://github.com/hrishikeshathalye/Hospital-Management-System-DBMS |

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**Contribution :** Table normalization, Form design, connecting to the DB, Reports, Schema design   
------------------------------------------------------------------------------------

Sites.google.com  
Portfolio  
Git hub : kaliyappandivya1974  
Leet Code

Tables

* Doctor-Master
* Patient-Transaction
* Appointment-Transaction
* Billing

Master - Doctor table

Doctor \_id -primary key

Doctor \_name

Specialization

Transaction -Patient

Patient-id-primary key

Patient \_name

Doctor \_id -foreign key

Appointment table :

Appointment \_id-primary key

Patient \_id

Doctor \_id

Billing table

Invoice \_ id-primary key

Patient \_id-foreign key

Doctor \_id-foreign key

Total \_value

**Create Table doctor(**

**Doctor \_id varchar(225) primary key,**

**Doctor \_name varchar(225),**

**Specialization varchar(225) );**

**select \* from doctor**

**insert into table**

**create view**

**key words:**

Relation-doctor,

Attribute-doctor \_id,

Domain-doctor \_id start with AKdoc,

Tuples-value

**Database normalization:**

* 1NF
* 2NF
* 3NF
* 4NF
* 5NF

Doctor table :

My table is in **1NF** because it has a primary key named

doctor \_id

My table is in **2NF** because it has a primary key -doctor \_id, all other columns all dependent on the primary key

**3NF**:  
Should be in 2NF   
No transitive partial dependency

Example:

|  |
| --- |
| Student \_id, Student \_name,Job \_id,Job\_name,state\_id,state\_name |
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**1NF:** Student \_id, Student \_name,

**2NF:**  
Student \_roll   
Student \_id, Job \_id

Student info table:  
Student \_id, Student \_name, State \_id, State \_name

Job table:

Job \_id, Job \_name

**3NF:**

Student roll table:

Student \_id

Job \_id

Student info table :

Student \_id

Student \_name

State \_id

Job info table:

Job \_id

Job \_name

State \_name

Front end : HTML,CSS, react.js , tail win CSS, flask, android, flutter,

Back end : SQL, oracle, mongo DB, JSON, SQL lite, firebase

Editor : VS code

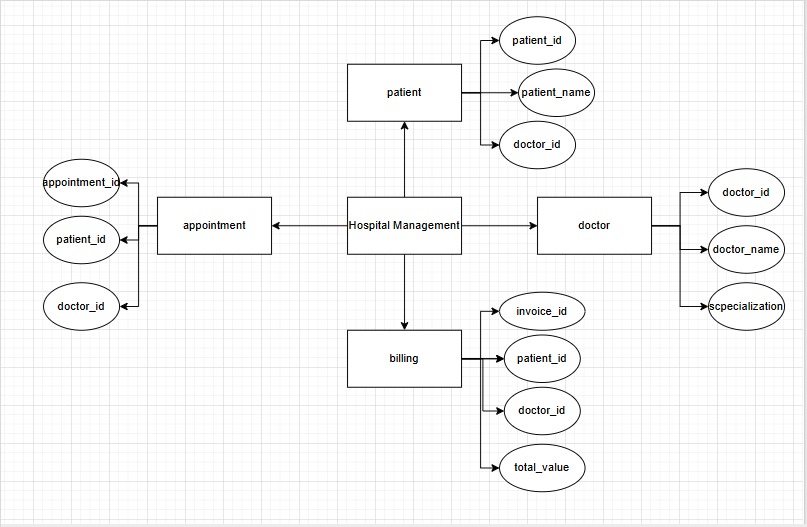
Frame work : XAMPP v3.3.0, node.js

Language : php, python

Example:   
Doctor – parent tag(table name)

Doctor \_id, Doctor \_name, Specialization

**DTD**



DTD with no elements:

<login timeout=”100”/login>

<!element login empty>

<!ATTLIST login timeout CDATA “100”>

**JOIN:**

**Inner join**

Select \* from doctor

Inner join patient on doctor.doctor\_id=patient.doctor\_id;

Module details

|  |  |  |
| --- | --- | --- |
| Module name | sub module details | description |
| Doctor Management | Add doctor | Register doctors with specialization and qualifications |
| View doctor | List of doctors with availability status |
| Doctor schedule | Manage consulation hour and leave schedule |

Form details:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Module name/submodule name | Form name-type | Form description | Table name-type | Table description |
| Order/Book order | Book order form-transaction,  master | I can see the food items list and book for the order | Order table-transaction | Orders are linked here |
| Appointment /schedule appointment | schedule appointment-transaction | I can schedule appointment booked for doctors/  patients | Appointment table-Transaction | Book appointments with doctor/patients |