Database Structure

# 1. Users Table

|  |  |  |
| --- | --- | --- |
| **Field Name** | **Data Type** | **Description** |
| **user\_id** | INT (Primary Key) | Unique identifier for each user. |
| **username** | VARCHAR(50) | User's chosen display name. |
| **mobile** | INT LONG | User's phone no |
| **password** | VARCHAR(255) | User's hashed password for authentication. |
| **is\_verified** | BOOLEAN | Whether the user's email is verified. |
| **timestamp** | TIMESTAMP | When the user registered. |

# 2. Hospitals Table

|  |  |  |
| --- | --- | --- |
| **Field Name** | **Data Type** | **Description** |
| **hospital\_id** | INT (Primary Key) | Unique identifier for each hospital. |
| **name** | VARCHAR(100) | Name of the hospital. |
| **lat** | FLOAT | Latitude |
| **long** | FLOAT | Longitude |
| **address** | VARCHAR(255) | address of the hospital. |
| **location** | JSON | * State * District * city |
| **hospital\_type** | VARCHAR(50) | Type of hospital (e.g., government, private). |
| **total\_beds** | INT | Number of beds available in the hospital. |
| **facilities** | TEXT | Facilities available in the hospital (comma-separated list). |
| **contact\_number** | VARCHAR(15) | Contact number of the hospital. |
| **email** | VARCHAR(100) | Email address of the hospital. |

# 3. Reviews Table

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| --- | --- | --- |
| **Field Name** | **Data Type** | **Description** |
| **review\_id** | INT (Primary Key) | Unique identifier for each review. |
| **hospital\_id** | INT | Foreign key referencing Hospitals(hospital\_id). |
| **user\_id** | INT | Foreign key referencing Users(user\_id). |
| **review\_content** | TEXT | Content of the review. |
| **attachment\_url** | VARCHAR(255) | URL of the attachment (image, document, etc.). |
| **timestamp** | TIMESTAMP | When the review was submitted. |

# 4. Ratings Table

This table stores individual ratings from users for various categories.

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| --- | --- | --- |
| **Field Name** | **Data Type** | **Description** |
| **rating\_id** | INT (Primary Key) | Unique identifier for each rating entry. |
| **hospital\_id** | INT | Foreign key referencing Hospitals(hospital\_id). |
| **user\_id** | INT | Foreign key referencing Users(user\_id). |
| **cleanliness\_rating** | DECIMAL(3,2) NULL | Rating for hospital cleanliness (optional). |
| **facilities\_rating** | DECIMAL(3,2) NULL | Rating for hospital facilities (optional). |
| **staff\_rating** | DECIMAL(3,2) NULL | Rating for staff performance (optional). |
| **equipment\_rating** | DECIMAL(3,2) NULL | Rating for medical equipment (optional). |
| **wait\_time\_rating** | DECIMAL(3,2) NULL | Rating for wait time (optional). |
| **accessibility\_rating** | DECIMAL(3,2) NULL | Rating for accessibility (optional). |
| **overall\_rating** | DECIMAL(3,2) | Calculated overall rating (average of non-null categories). |
| **timestamp** | TIMESTAMP | When the rating was given. |

# We can add more categories here…

# 5. CategoryRatings Table

This table stores the aggregated overall ratings for each category. The overall rating for the hospital is calculated based on the average of the individual category ratings.

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| --- | --- | --- |
| **Field Name** | **Data Type** | **Description** |
| **hospital\_id** | INT (Primary Key) | Foreign key referencing Hospitals(hospital\_id). |
| **cleanliness\_avg** | DECIMAL(3,2) | Average cleanliness rating across all users. |
| **facilities\_avg** | DECIMAL(3,2) | Average facilities rating. |
| **staff\_avg** | DECIMAL(3,2) | Average staff rating. |
| **equipment\_avg** | DECIMAL(3,2) | Average equipment rating. |
| **wait\_time\_avg** | DECIMAL(3,2) | Average wait time rating. |
| **accessibility\_avg** | DECIMAL(3,2) | Average accessibility rating. |
| **overall\_avg** | DECIMAL(3,2) | Overall average rating for the hospital (calculated). |
| **last\_updated** | TIMESTAMP | Timestamp for when these averages were last updated. |
|  |  |  |

# We can add more categories here…