# Data Dictionary

## 1-Users Table

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Data Type | Description | Constraints |
| user\_id | INT (4 Bytes) | Unique identifier for each user | PRIMARY KEY, AUTO\_INCREMENT, REQUIRED. |
| admin\_id | INT (4 Bytes) | Reference to the admin managing the user | FOREIGN KEY (admins) ON DELETE SET NULL. |
| name | VARCHAR(200) | Name of the user | REQUIRED |
| phone\_number | VARCHAR(12) | User's phone number | NULL |
| email | VARCHAR(55) | User's email address | UNIQUE, REQUIRED |
| password | CHAR (8) | Hashed password for authentication | UNIQUE, REQUIRED |
| role\_type | ENUM('renter', 'customer') | Defines if user is a renter or a customer | REQUIRED |
| address | VARCHAR (40) | User's address | NULL |
| scores | INT (4 Bytes) | User's score or rating |  |

## 2-Admins Table

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Data Type | Description | Constraints |
| admin\_id | INT (4 Bytes) | Unique identifier for each admin | PRIMARY KEY, AUTO\_INCREMENT,  REQUIRED |
| name | VARCHAR(100) | Admin's name | REQUIRED |
| email | VARCHAR(50) | Admin's email address | UNIQUE, REQUIRED |
| password | CHAR(8) | Hashed password for authentication | UNIQUE, REQUIRED |

## 3-Conversations Table

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Data Type | Description | Constraints |
| conversation\_id | INT (4 Bytes) | Unique identifier for each conversation | PRIMARY KEY, AUTO\_INCREMENT,  REQUIRED |
| participant1 | INT (4 Bytes) |  | FOREIGN KEY (users) |
| participant2 | INT (4 Bytes) |  | FOREIGN KEY (users) |
| creation time | TIMESTAMP | Timestamp of conversation creation | DEFAULT CURRENT\_TIMESTAMP |

### ****5. messages Table****

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Data Type | Description | Constraints |
| message\_id | INT (4 Bytes) | Unique identifier for each message | PRIMARY KEY, AUTO\_INCREMENT, REQUIRED |
| conversation\_id | INT (4 Bytes) | Reference to the conversation | FOREIGN KEY (conversations) ON DELETE CASCADE |
| user\_id | INT (4 Bytes) | Reference to the user who sent the message | FOREIGN KEY (users) ON DELETE CASCADE |
| body | TEXT | Message content |  |
| creation\_time | TIMESTAMP | Timestamp of message creation | DEFAULT CURRENT\_TIMESTAMP |

### ****7. categories Table****

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Data Type | Description | Constraints |
| category\_id | INT (4 Bytes) | Unique identifier for each category | PRIMARY KEY, AUTO\_INCREMENT |
| category\_name | VARCHAR(60) | Name of the category | REQUIRED |
| Category\_description | TEXT | Description of the category | REQUIRED |

### ****8. items Table****

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Data Type | Description | Constraints |
| item\_id | INT (4 Bytes) | Unique identifier for each item | PRIMARY KEY, AUTO\_INCREMENT |
| category\_id | INT (4 Bytes) | Reference to category | FOREIGN KEY (categories) ON DELETE CASCADE |
| owner\_id | INT (4 Bytes) | Reference to owner (user) | FOREIGN KEY (users) ON DELETE CASCADE |
| item\_image | \*VARCHAR(255) | Image URL of the item |  |
| title | VARCHAR(5O) | Title of the item | REQUIRED |
| Item\_description | TEXT | Item description | REQUIRED |
| price | DECIMAL(6,2) | Price of the item | REQUIRED |
| status | ENUM('available', 'unavailable') | Availability status | REQUIRED |
| creation\_time | TIMESTAMP | Timestamp of item creation | DEFAULT CURRENT\_TIMESTAMP |

### ****9. tracking\_details Table****

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Data Type | Description | Constraints |
| tracking\_id | INT (4 Bytes) | Unique tracking ID | PRIMARY KEY, AUTO\_INCREMENT, REQUIRED |
| booking\_id | INT (4 Bytes) | Reference to booking | FOREIGN KEY (booking) ON DELETE CASCADE |
| name | VARCHAR(100) | Receiver's name | REQUIRED |
| phone | VARCHAR(20) | Receiver's phone | REQUIRED |
| email | VARCHAR(55) | Receiver's email | REQUIRED, UNIQUE |
| address | TEXT | Delivery address | REQUIRED, UNIQUE |
| city | VARCHAR(100) | City name | REQUIRED |

## 10.Cart Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Name | Data Type | Description | Constraints | |
| cart\_id | INT (4 Bytes) | Unique identifier for each cart entry | PRIMARY KEY, AUTO\_INCREMENT | |
| item\_id | INT (4 Bytes) | Reference to the item added to cart | FOREIGN KEY (items) ON DELETE CASCADE | |
| user\_id | INT (4 Bytes) | Reference to the user owning the cart | FOREIGN KEY (users) ON DELETE CASCADE | |
| quantity | INT (4 Bytes) | Number of items added to the cart | |  |

## 11.Booking Table

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Data Type | Description | Constraints |
| booking\_id | INT (4 Bytes) | Unique identifier for each booking | PRIMARY KEY, AUTO\_INCREMENT |
| item\_id | INT (4 Bytes) | Reference to the booked item | FOREIGN KEY (items) ON DELETE CASCADE |
| user\_id | INT (4 Bytes) | Reference to the user who booked | FOREIGN KEY (users) ON DELETE CASCADE |
| rental\_date | DATE | Date of rental |  |
| rental\_time | TIME | Time of rental |  |
| status | ENUM('pending', 'confirmed', 'cancelled') | Booking status |  |
| card\_number | ENUM(visa) | Payment method used |  |
| booking\_time | TIMESTAMP | Timestamp of booking | DEFAULT CURRENT\_TIMESTAMP |

## 12.Reviews Table

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Data Type | Description | Constraints |
| review\_id | INT (4 Bytes) | Unique identifier for each review | PRIMARY KEY, AUTO\_INCREMENT |
| item\_id | INT (4 Bytes) | Reference to the reviewed item | FOREIGN KEY (items) ON DELETE CASCADE |
| user\_name | VARCHAR(50) | Name of the user who reviewed | REQUIRED |
| comment | TEXT | User's review comment |  |
| rating | INT (4 Bytes) | Review rating (1-5 scale) |  |
| date\_posted | TIMESTAMP | Timestamp when review was posted | DEFAULT CURRENT\_TIMESTAMP |