IT5014 – Project (PW)

**Semester: 5**

**Database Dictionary**

Title of the project: E-Auction Management System

* **tblUsers**

| Field Name | Data type | Size | **Constraints** | **Description** |
| --- | --- | --- | --- | --- |
| Id | INT |  | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for each user |
| FirstName | VARCHAR | 20 | NOT NULL | First name of the user |
| LastName | VARCHAR | 20 | NOT NULL | Last name of the user |
| MobileNo. | VARCHAR | 10 | NOT NULL, UNIQUE | Mobile number of the user |
| Email | VARCHAR | 200 | NOT NULL, UNIQUE | Email address of the user |
| Address | VARCHAR | 500 |  | Residential address of the user |
| DateofBirth | DATE |  |  | Date of birth of the user |
| Username | VARCHAR | 15 | NOT NULL, UNIQUE | Username for the user login |
| Password | VARCHAR | 20 | NOT NULL | Password for the user login (hashed) |
| Role | VARCHAR | 6 | NOT NULL | Role of the user (buyer, admin) |

* **tblAuctionItem**

| **Field Name** | **Data Type** | **Size** | **Constraints** | **Description** |
| --- | --- | --- | --- | --- |
| ID | INT |  | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for each auction item |
| Name | VARCHAR | 15 | NOT NULL | Name of the auction item |
| Category | VARCHAR | 15 | NOT NULL | Category to which the item belongs |
| Description | VARCHAR | 200 | NOT NULL | Detailed description of the item |
| StartDatetime | DATETIME |  | NOT NULL | Date and time when the auction starts |
| EndDatetime | DATETIME |  | NOT NULL | Date and time when the auction ends |
| Img |  |  |  | item's image |
| ListedDate | DATETIME |  | NOT NULL | Date and time when the item was listed |
| StartingPrice | DECIMAL | 10,2 | NOT NULL | Initial price at which the auction starts |
| ReservePrice | DECIMAL | 10,2 | NOT NULL | Minimum price the seller is willing to accept |
| EMDDateTime | DATETIME |  | NOT NULL | Deadline date and time for Earnest Money Deposit |
| EMDAmount | DECIMAL | 10,2 | NOT NULL | Amount to be deposited as Earnest Money |
| IncrementValue | DECIMAL | 10,2 | NOT NULL | Minimum increment value for bids |
| Status | VARCHAR | 10 | NOT NULL, | Current status of the auction item (pending, active, closed, cancelled) |

* **tblRagisterBidder**

| **Field Name** | **Data Type** | **Size** | **Constraints** | **Description** |
| --- | --- | --- | --- | --- |
| Id | INT |  | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for each registration |
| AuctionItemId | INT |  | FOREIGN KEY | Foreign key referencing the auction item |
| UserId | INT |  | FOREIGN KEY | Foreign key referencing the user |
| BidValue | DECIMAL | 10,2 | NOT NULL | Value of the bid placed by the user |
| BidTime | DATETIME |  | NOT NULL | Date and time when the bid was placed |
| Rank | INT |  |  | Rank of the bid based on the bid value |
| Status | VARCHAR | 10 | NOT NULL | Status of the bid (active,inactive) |

* **tbltransection**

| **Field Name** | **Data Type** | **Size** | **Constraints** | **Description** |
| --- | --- | --- | --- | --- |
| Id | INT |  | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for each transaction |
| UserId | INT |  | FOREIGN KEY | Foreign key referencing the user |
| AuctionItemId | INT |  | FOREIGN KEY | Foreign key referencing the auction item |
| Type | VARCHAR | 10 | NOT NULL | Type of transaction (EMD Amount, Full Payment, EMD Refund) |
| Amount | DECIMAL | 10,2 | NOT NULL | Amount of the transaction |
| DateTime | DATETIME |  | NOT NULL | Date and time of the transaction |

* **tblEMDRefund**

| **Field Name** | **Data Type** | **Size** | **Constraints** | **Description** |
| --- | --- | --- | --- | --- |
| Id | INT |  | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for each refund |
| AuctionItemID | INT |  | FOREIGN KEY | Foreign key referencing the auction item |
| UserID | INT |  | FOREIGN KEY | Foreign key referencing the user |
| Amount | DECIMAL | 10,2 | NOT NULL | Amount of the refund |
| DateTime | DATETIME |  | NOT NULL | Date and time when the refund was processed |
| RefundStatus | VARCHAR | 10 | NOT NULL | Status of the refund (pending, processed) |