

IT5014 – Project (PW)

Semester: 5**Initial Requirement Document**

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
ItemId	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
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- **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)