

IT5014 – Project (PW)

**Semester: 5****Functional Requirement**

Title of the Project: E-Auction Management System

**• User Management**

<b>RN</b>	<b>Description</b>	<b>Comments</b>
FR1	The system shall be able to allow bidders to register with unique username, password, email id, mobile number send verification emails and OTPs for mobile number verification.	Bidder Registration
FR2	bidders and the owner shall be able to log in using their username and password.	User Login
FR3	Bidders shall be able to view and update their profile information.	Profile Management
FR4	Users shall be able to change their password and reset it through email verification if forgotten.	Password Management

**• Auction Management**

<b>RN</b>	<b>Description</b>	<b>Comments</b>
FR1	The owner shall be able to add, edit, and delete auction items and categorized for better management.	Item Management
FR2	The owner can set the start and end times for each auction and manage the auction timing.	Auction Scheduling
FR3	The system will display a list of upcoming auctions accessible to all users and viewers.	Upcoming Auctions
FR4	Only interested bidders and the owner can view and participate in live auctions.	Live Auctions

**• Bidding**

<b>RN</b>	<b>Description</b>	<b>Comments</b>
FR1	Interested bidders can place bids on auction items.	Bid Placement
FR3	The system will send notifications to bidders about their bid status (outbid, winning bid) and auction updates.	Bid Notifications

- **Earnest Money Deposit (EMD)**

RN	Description	Comments
FR1	Bidders must register and pay the EMD before the EMD date to participate in an auction.	EMD Registration
FR2	The owner can manage the EMD amount and its due date for each auction.	EMD Management
FR3	The EMD amount will be refunded to all non-winning bidders after the auction concludes.	EMD Refund

- **Payment Processing**

RN	Description	Comments
FR1	Bidders can make EMD payments through a secure payment gateway.	EMD Payment
FR2	Winning bidders can make the full payment for the auctioned items via the payment gateway.	Full Payment

- **Auction Outcomes**

RN	Description	Comments
FR1	The system will automatically determine the auction winner based on the highest bid amount.	Winner Determination
FR2	The auction will start only if the first bid meets or exceeds the reserve price.	Reserve Price
FR3	The final price of the item will be the highest bid amount at the end of the auction.	Final Price

- **Search and Filtering**

RN	Description	Comments
FR1	Users shall be able to search for auction items using keywords.	Item Search
FR2	Users can filter auction items based on item name, category, and reserve price.	Filtering Options