IT5014 – Project (PW)

**Semester: 5**

**Functional Requirement**

Title of the Project:E-Auction Management System

* **User Management**

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| **RN** | **Description** | **Comments** |
| FR1 | The system shall be able to allow viewer and bidders to register with First name , Last name, date of birth , unique email id, password, mobile number. System Shall be able to send OTP for Email verification. | Registration Page |
| FR2 | Bidders and the owner shall be able to log in using their email id and password. | User Login Page |
| FR3 | Bidders and the owner shall be able to view and update their profile information. | Profile Management Page |
| FR4 | Users shall be able to change their password and reset it through email verification if forgotten. | Password Management Page |

* **Auction Management**

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| **RN** | **Description** | **Comments** |
| FR1 | The owner shall be able to add, update, and delete auction items and categorized for better management. | Item Management Page |
| FR2 | The owner can manage the auction timing for each item. | Auction Scheduling Page |
| FR3 | The system will display a list of upcoming auctions to all users. | Upcoming Auctions |
| FR4 | Only interested bidders and the owner shall be able to view and participate in live auctions. | Live Auctions Page |

* **Bidding**

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| **RN** | **Description** | **Comments** |
| FR1 | Interested bidders can place bids on auction items. | Bid Placement Page |
| FR2 | The system will send notifications to bidders about their bid status (outbid, winning bid) and auction updates. | Bid Notifications |

* **Earnest Money Deposit (EMD)**

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| **RN** | **Description** | **Comments** |
| FR1 | Bidders have to register and pay the EMD before the EMD date to participate in an auction. | Auction Registration Page |
| FR2 | The owner shall be able to manage the EMD amount and its due date for each auction. | Auction Scheduling Page |
| FR3 | The EMD amount will be refunded to all non-winning bidders after the auction Finished. | EMD Refund |

* **Payment Processing**

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| **RN** | **Description** | **Comments** |
| FR1 | Bidders shall be able to make EMD payments through a secure payment gateway. | EMD Payment |
| FR2 | Winning bidders shall be able to make the full payment for the auctioned items via the payment gateway. | Full Payment |

* **Auction Outcomes**

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| **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**

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