# Statement of Work (SOW)

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**Project Title:** Online Auction system for students to buy and sell their personal items
**Date:** 06-02-2025
**Prepared By:** Mahindra University

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## 1. Introduction

This Statement of Work (SOW) outlines the objectives, scope, deliverables, and responsibilities for the **Online Auction System** project. The purpose of this project is to create a secure, student-only online marketplace where students can buy and sell personal items within their campus community.

## 2. Scope of Work

Project Description:
The Online Auction System is a web-based platform designed specifically for college and university students to buy and sell personal items such as textbooks, electronics, clothing, and furniture. The platform will feature verified student profiles, flexible selling options, secure payment processing, and integrated delivery services.

Objectives:

- Develop a user-friendly, secure platform for campus-based buying and selling.
- Ensure the system allows for both auction and fixed price selling options.
- Implement verification mechanisms to ensure users are legitimate students.
- Integrate secure payment and campus-specific delivery options to streamline transactions.

Key Activities:

- Design and develop the platform interface and user experience.
- Implement student verification via university email.
- Set up auction and fixed-price functionality.
- Integrate secure payment gateways and campus-based delivery options.
- Perform quality testing and debugging before deployment.

## 3. Deliverables

**Deliverable 1: Platform Design (Due Date: Mar 10th)** This deliverable will include the complete design of the user interface (UI) and user experience (UX) for the Online Auction System, focusing on usability and accessibility for students. The design will consist of:

- Wireframes: Structural blueprints that outline the layout of key platform pages, including the homepage, item listing page, auction details page, and user profile.

- Mockups: High-fidelity designs showing the actual look and feel of the platform with color schemes, typography, and branding elements.
- User Flow Diagrams: Detailed flowcharts that define the user's journey through the platform, from registration to completing transactions.
- Responsive Design: Ensure the platform adapts to various devices, ensuring a seamless experience on both desktop and mobile.

**Deliverable 2: Functional Online Auction System (Due Date: Apr 7th)** This deliverable will include the **fully functional Online Auction System**, providing students with a platform to buy and sell personal items in a secure and user-friendly environment. Key features to be developed include:

- **Student Registration and Authentication**: Secure user registration, including email verification for ensuring the platform is accessible only to legitimate students.
- **Item Listing**: The ability for sellers to list items for auction or set fixed prices, including uploading images, providing descriptions, and setting pricing and categories.
- **Auction Functionality**: A real-time bidding system where buyers can bid on items, with automatic updates showing the current highest bid.
- **Transaction System**: Secure payment gateway integration for managing transactions between buyers and sellers. This will include escrow functionality to ensure the buyer only pays once the item is received.
- **User Profiles**: A system where users can view their listed items, track ongoing bids, and rate transactions post-completion.
- **Search and Filtering**: A search engine allowing users to filter available items by categories, price, and auction status (active/completed).

**Deliverable 3: Testing and Debugging Report (Due Date: May 9th)** This deliverable will consist of a comprehensive **Testing and Debugging Report** detailing all the tests conducted to ensure the platform works correctly and securely. This will include:

- **Test Plan**: A document detailing the testing strategy, scope, and types of tests to be conducted (unit tests, integration tests, and user acceptance testing).
- **Bug Tracking**: A log of identified bugs, performance issues, or defects found during testing, including their severity and status (fixed, pending).
- **Test Results**: Documentation of the results from all tests, including successful outcomes and issues found during testing, along with the corrective measures taken.
- **Performance Testing**: A focus on the system's performance, ensuring the platform is scalable and can handle multiple users without issues.
- **Security Testing**: Tests to verify that the platform is secure, ensuring user data protection, payment safety, and system vulnerabilities are addressed.
- **Post-Testing Fixes**: A summary of all fixes, improvements, and enhancements made to the system following the testing phase.

## 4. Timeline and Milestones

| Milestone Description | Due Date |
|---|---|
| Project Kickoff | Jan 29th |
| Initial project meeting and team introduction. | |
| Phase 1 Completion | Mar 10th |
| Completion of platform design, including wireframes, mockups, and user flow diagrams. | |
| Final Delivery | May 9th |
| Submission of all deliverables, including the functional platform, testing and debugging report, and final documentation. | |

## 5. Roles and Responsibilities

Team Members:

- Anvitha, Lasya, Sharath, and Nithin
  - Collaborate on the development of the Online Auction System, ensuring all tasks are completed on time.
  - Work on the design, implementation, and testing phases of the project.
  - Ensure effective communication and collaboration throughout the project lifecycle.

Client Contact: Software Engineering course, Mahindra University

## 7. Assumptions and Constraints

- **Assumptions**:
  - Availability of necessary software and tools.
  - All team members will meet deadlines and contribute.
  - The platform will be accessible only to verified students.
  - Access to required technical resources and documentation.
- **Constraints**:
  - Compliance with university data privacy policies.
  - Must meet all deadlines.

- Platform scalability limited in the initial phase.
- Budget constraints for software and hosting resources.

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8. Approval Signatures

Client:

Name: _____

Title: _____

Signature: _____

Date: _____

Service Provider:

Name: _____

Title: _____

Signature: _____

Date: _____