

# **STATEMENT OF WORK**

Abhilash SE22UCSE004  
Adithi SE22UCSE010  
Surya Tej SE22UCSE065  
Sreeja SE22UCSE256  
Sreeni SE22UCSE258  
Vijay SE22UCSE305



**Project Title:** BBS (Bid, buy and save)

**Date:** 03-03-2025

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## **1. Introduction**

BBS is a student-exclusive auction platform designed to make buying, selling, bidding, and renting second-hand items effortless and secure. This platform will help students save money, access affordable goods, and even rent out items they don't frequently use—all within a trusted campus environment. With AI-driven recommendations and a smooth user experience, This is set to transform campus trade.

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## **2. Scope of Work**

### **Project Description**

We aim to develop a secure marketplace for University students where they can buy, sell, bid, and rent items easily. This ensures affordability, resource-sharing, and a trusted peer-to-peer economy within the campus.

### **Objectives**

- **Seamless student marketplace** for buying, selling, bidding, and renting.
- **Secure authentication system** for student verification.
- **Rental feature** allowing students to rent items short-term.

Key Activities

- **Requirement Gathering:** Conduct student surveys to define needs.
  - **UI/UX Design:** Create interactive and user-friendly prototypes.
  - **Front-End Development:** Build an intuitive and responsive website.
  - **Back-End Development:** Implement AI-driven suggestions and security features.
  - **Testing & Debugging:** Conduct usability and security tests.
  - **Deployment & Promotion:** Launch the platform and market to students.
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3. Technologies Used

**Frontend:**HTML,CSS,JavaScript,React Js

**Backend:** Java , Spring Boot+ HyberNate,MangoDB,mySQL.

**AI & Data Science:** TensorFlow.js, Python (Recommendation System)

**UI/UX Design:** Figma, Adobe XD

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4. Deliverables

Deliverable	Description
User Research Report	Data-driven insights on student needs
UI/UX Designs:	Wireframes and prototypes
Beta Version:	Fully functional core platform
Full Deployment:	Campus-wide platform launch

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5. Timeline and Milestones

Milestone	Description	Due Date
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Project Kickoff	Team meeting & role assignment	07-02-2025
UI/UX Completion	Finalize website design	15-03-2025
Core Development	Auction & rental system functional	07-04-2025
Testing Phase	Debugging and performance checks	20-04-2025
Official Launch	Full platform rollout	03-05-2025

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## 6. Roles and Responsibilities

Role	Team Member(s)	Responsibilities
<b>Back-End Developers</b>	Abhilash, Surya	Develop auction, rental and bidding
<b>Front-End Developer</b>	Sreeja	Build the web platform and ensure responsiveness
<b>UI/UX Designer</b>	Adithi	Create an intuitive and interactive user experience
<b>Testing Engineer</b>	Sreeni	Conduct security, usability, and performance testing
<b>Database Administrator</b>	Vijay	Manage data integrity and optimize queries
<b>Marketing &amp; Outreach</b>	Sreeni	Promote platform and onboard users

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## 7. Assumptions and Constraints

### Assumptions

- Students will actively engage with the platform.
- AI recommendations will improve trading efficiency.

- Renting will provide additional convenience for students.

## Constraints

- The platform must comply with university policies.
  - Budget constraints require cost-efficient solutions.
  - The system must scale efficiently as demand increases.
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## Why is Online Auction the Best Choice?

**Buy, Sell, Bid & Rent:** More flexible trading options for students.

**Gamification & Engagement:** Reward points and rankings encourage participation.

**Student-Exclusive Access:** Verified users ensure safety & trust.

**Mobile-Optimized Design:** Seamless experience across all devices.

BBS isn't just another marketplace—it's the future of student commerce!