

PROJECT SCOPE STATEMENT

Project Name

ToolShare

Project Deliverables

Working Web Application

- **User Authentication System:** A secure login and registration system allowing students and staff/faculty to access the platform using authenticated credentials, with role-based access control.
- **Equipment Browsing & Search:** A centralized interface where users can browse all available equipment, search by keywords, and filter items by category, faculty/location, and availability dates.
- **Booking & Reservation System:** A calendar-based booking system that allows students to request equipment for specific dates and times, with automatic conflict detection to prevent overlapping reservations.
- **Booking Lifecycle Management:** Support for a complete request lifecycle including request submission, approval or rejection, equipment checkout, return, and overdue tracking.
- **Equipment Checkout & Return:** Functionality for authorized faculty or lab managers to officially check out equipment to students and record returns within the system.
- **Equipment Condition Verification:** Support for uploading “before” and “after” images during checkout and return to document equipment condition and report any damage if applicable.
- **User Dashboard:** A personalized dashboard for students to view active requests, booking history, and current booking statuses.

Administrative Backend

- **Admin Dashboard:** A secure administrative interface for faculty and lab managers to add, edit, and remove equipment, manage categories and locations, and oversee system usage.
- **Booking Management:** Tools for staff to review incoming booking requests, approve or reject reservations,

manage equipment checkout and return, and monitor overdue items.

- **Notifications System:** Automated email and in-app notifications for booking confirmations, approvals, rejections, reminders, returns, and overdue alerts.
 - **Analytics & Reporting:** Reporting features that provide insights into equipment usage, borrowing trends, and departmental demand to support data-driven decision making.
 - **Audit Logging:** System-generated logs capturing key administrative actions such as approvals, checkouts, returns, and equipment modifications for accountability.
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Database & Deployment

- **Functional Database:** A relational database that securely stores information about users, equipment, booking requests, booking lifecycle states, condition images, and audit logs.
- **Deployed Live Website:** A fully functional version of the ToolShare application deployed on a cloud platform and accessible through a public URL for university users.

Project Exclusions

- Developing a separate native mobile application (the website will be mobile-responsive).
 - Purchasing, repairing, or physically maintaining any equipment.
 - Processing payments, rental fees, or financial transactions.
 - Enforcing real university Single Sign-On (SSO) authentication (planned as a future enhancement).
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