

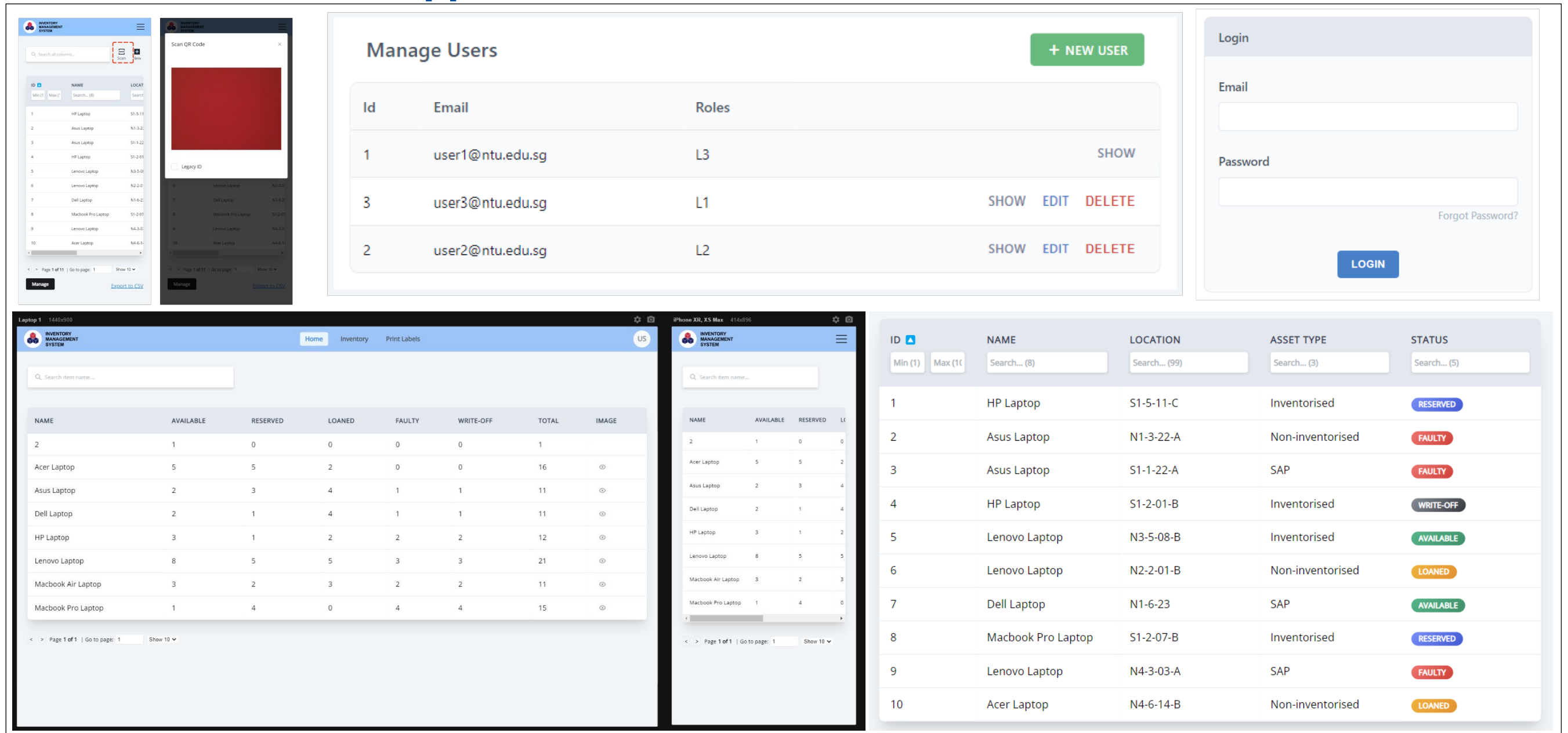
Inventory Management Web App

A Real-World Solution for the Hardware Projects Lab @ NTU SCSE

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Screenshots of Web App Features:



The screenshots illustrate the following features:

- Manage Users:** A table for managing users with columns for Id, Email, Roles, and actions (SHOW, EDIT, DELETE). A '+ NEW USER' button is present.
- Login:** A form with fields for Email and Password, a 'Forgot Password?' link, and a 'LOGIN' button.
- Inventory List:** A table showing inventory items with columns for ID, NAME, LOCATION, ASSET TYPE, and STATUS. The status is color-coded (e.g., RESERVED, FAULTY, AVAILABLE, LOANED).
- Mobile View:** A screenshot of the app on a mobile device, showing a QR code scanner and a list of inventory items.

Project Objective:

The objective was to improve inventory management in the hardware projects lab in NTU SCSE. The current paper-based system was inefficient and error-prone, so a more streamlined solution was required to save time, reduce errors, and provide a better user experience for lab managers. The resulting web application includes features such as search and filter, authentication with role-based access control, and a QR code scanner for easy item identification.

Project Highlights:

1. Custom Data Tables
2. QR Code Identifier
3. Password Authentication
4. Role-based Access Control
5. Self-hosted Deployment

