

## ID Scanner

Our design documents should include:

- Project Overview
  - ~Objective Briefly describe the purpose of the ID Scanner system (e.g., easy MakerSpace scan-ins/outs, track machine usage)
  - ~Scope
- Identification of modules
  - ~User Authentication
  - ~ID scanning
  - ~Database Management
  - ~Admin Dashboard
- Description of interaction between modules
  - ~Flow diagram?
  - ~API calls?
- A relational database schema
  - ~users table
  - ~access logs table
  - ~equipment table
- User interface screens/interaction diagrams for various types of users
  - ~User Screen:
    - ~ID Scanning Page
    - ~Confirmation/Denial
  - ~Admin Screens:
    - ~User management panel
      - ~Students: Can scan in/out and select machines.
      - ~Admins: Can manage users, view reports, and update equipment.
    - ~reports dashboard
    - ~tracking interface
- Identification of technologies (languages, frameworks, hardware, etc)
- Security & Access Control
  - ~Define the user roles and permissions
  - ~implement data encryption for sensitive information (IDS)
  - ~Define authentication methods
- Connections to Other Systems