Web Application: Resource Management
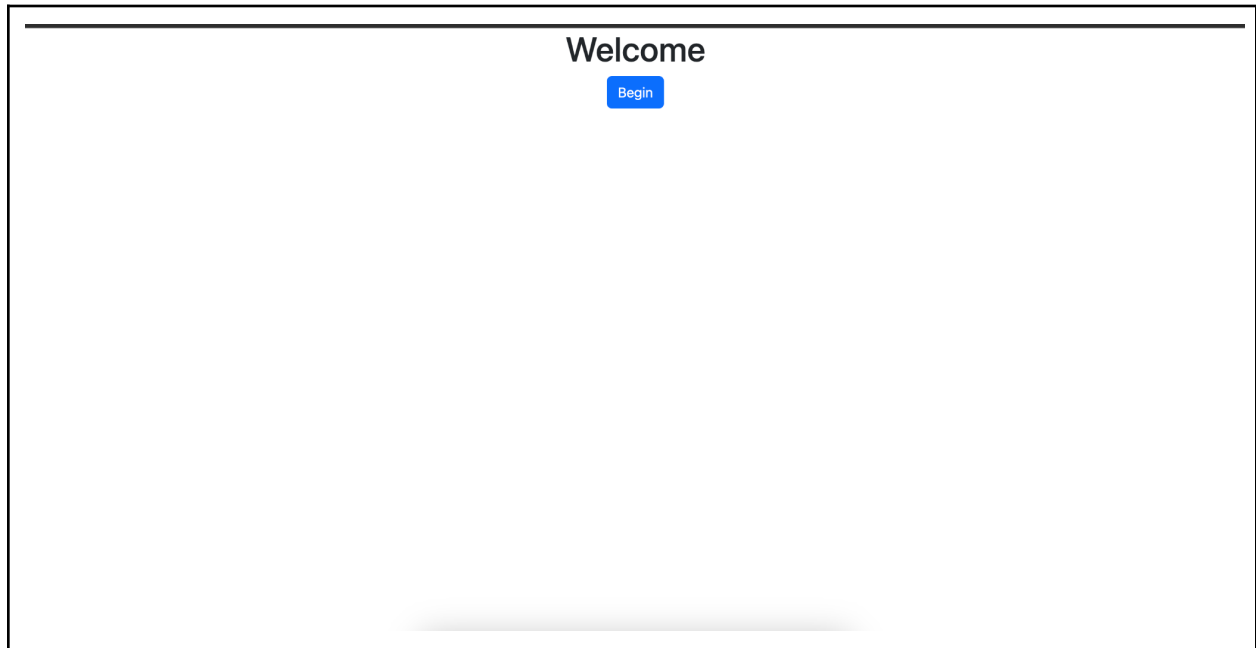# User Documentation

BY

17485_-REDACTED-
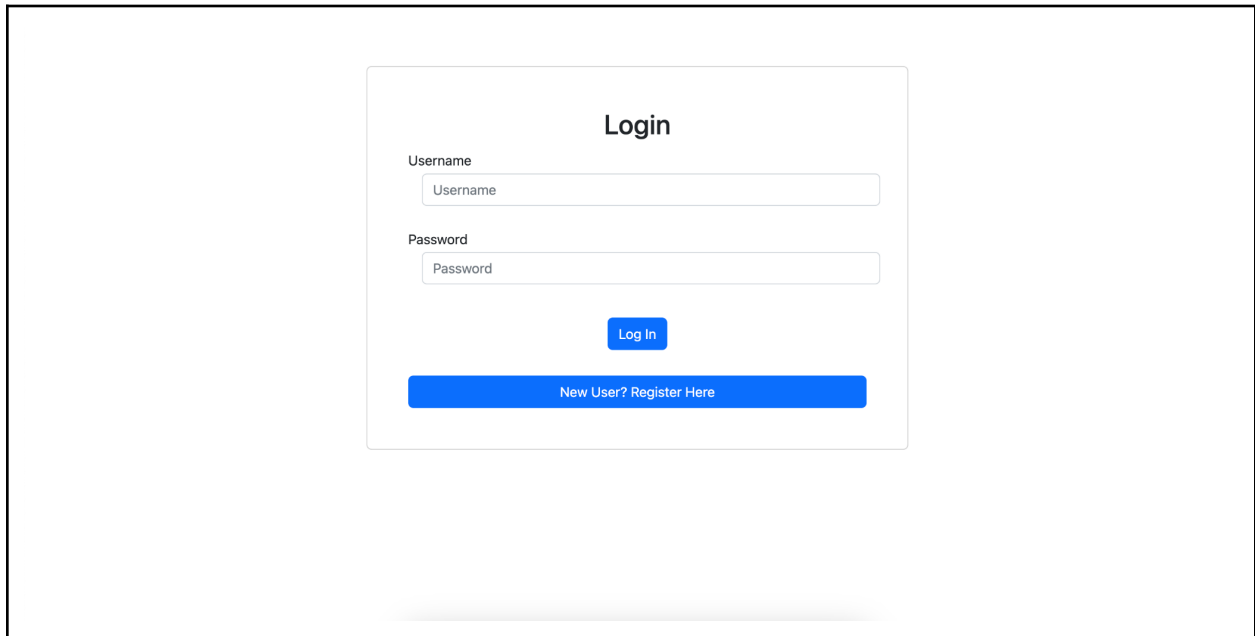
Front-End
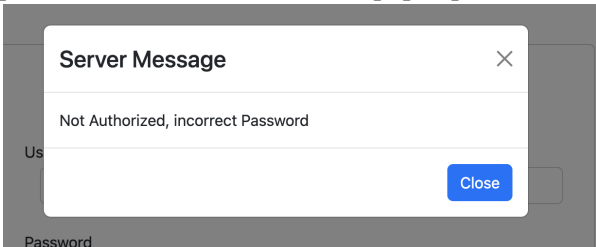
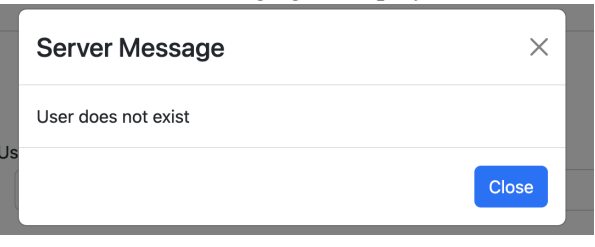http://localhost:3000/

When the website is launched, it takes the user to the open page "http://localhost:3000/" . The purpose of this page is to be a place holder for the "/" directory. We could discard this page and direct straight to the login page. Current design: Clicking the "Begin" button redirects to the user to "http://localhost:3000/login".
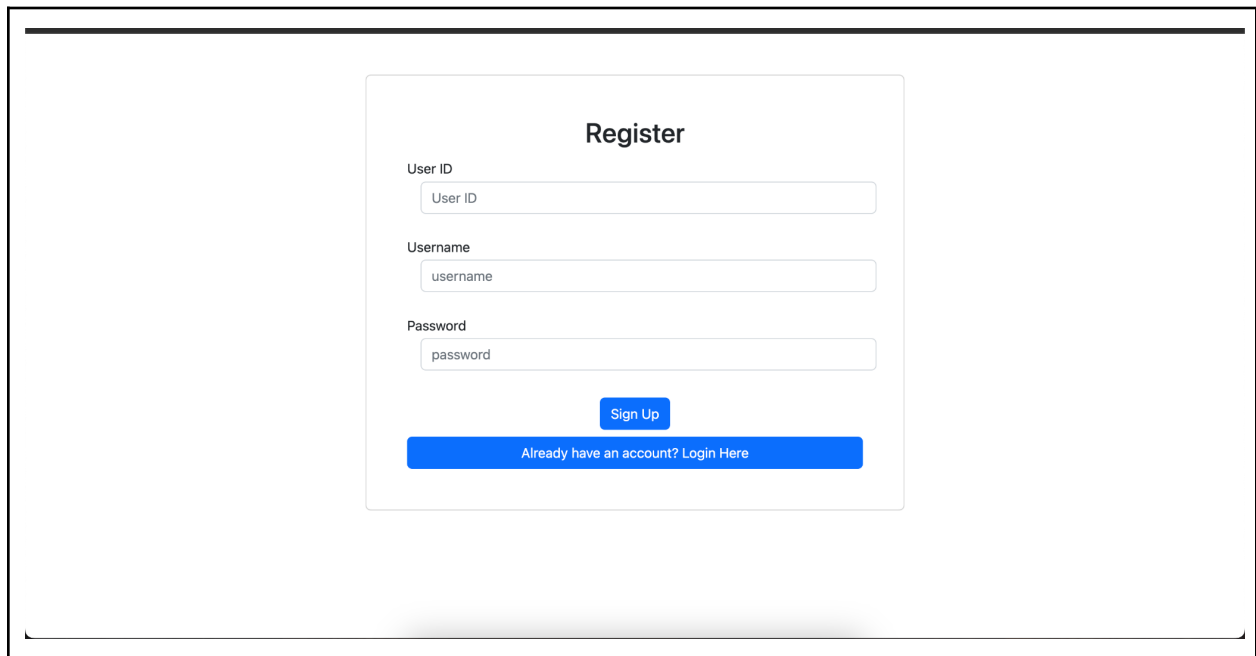
http://localhost:3000/login

This is the login page. The user is require to input a correct username and password and click the login page. One a valid combination has been imputed the user is redirected to "http://localhost:3000/my_projects".

Server Messages

If the user inputs a valid username, but incorrect password, then this notification pops up	If the user input a username that does not exist then this modal message gets displayed.

If the user clicks the "Register Here" button, they will be redirected to "http://localhost:3000/create_account" .

http://localhost:3000/create_account

This is account creation page for the user, if they do not posses a valid account. The user is required to enter a unique 'User ID' , 'Username' and 'Password'. Once they the field have been properly filled in, then the user will be routed to "http://localhost:3000/my_projects".

Server Messages

If the user inputs a Username that exist already then the following message will appear.

Clicking the "Login Here" button will reroute the user to, "http://localhost:3000/login".

http://localhost:3000/my_projects

Within this page, the logged in user's projects will be rendered on the page.

Navigation Bar

"Home" - Redirects back to "http://localhost:3000/my_projects".
"Create Project"- Redirects to "http://localhost:3000/create_project"
"Join Project" - Redirects to "http://localhost:3000/join_project"
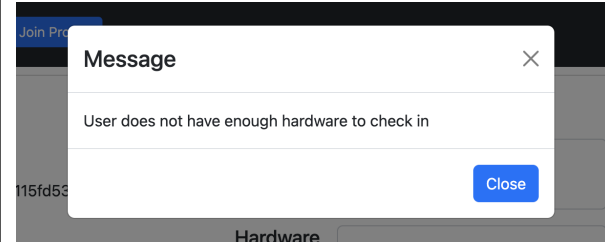"Sign Out" - Redirects to "http://localhost:3000/login"

Projects

Within each project, there exist a "Project Name" and "Project ID". The "Project Name" is decided by the user on the project's creation. The "Project ID" is the auto generated ID by MongoDB. *Could be adapted to use user created IDs for ease". Clicking the "Leave Project" button removes the user from the project. *Note leaving a project does not automatically check in hardware, the checked out values is still associated with the user. *
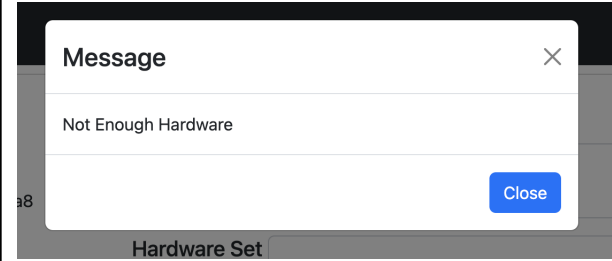
Check In/Out

Hardware sets are global value. The "100/100" is the current available from the set. Checking out set will cause the over value to decrease for all projects.
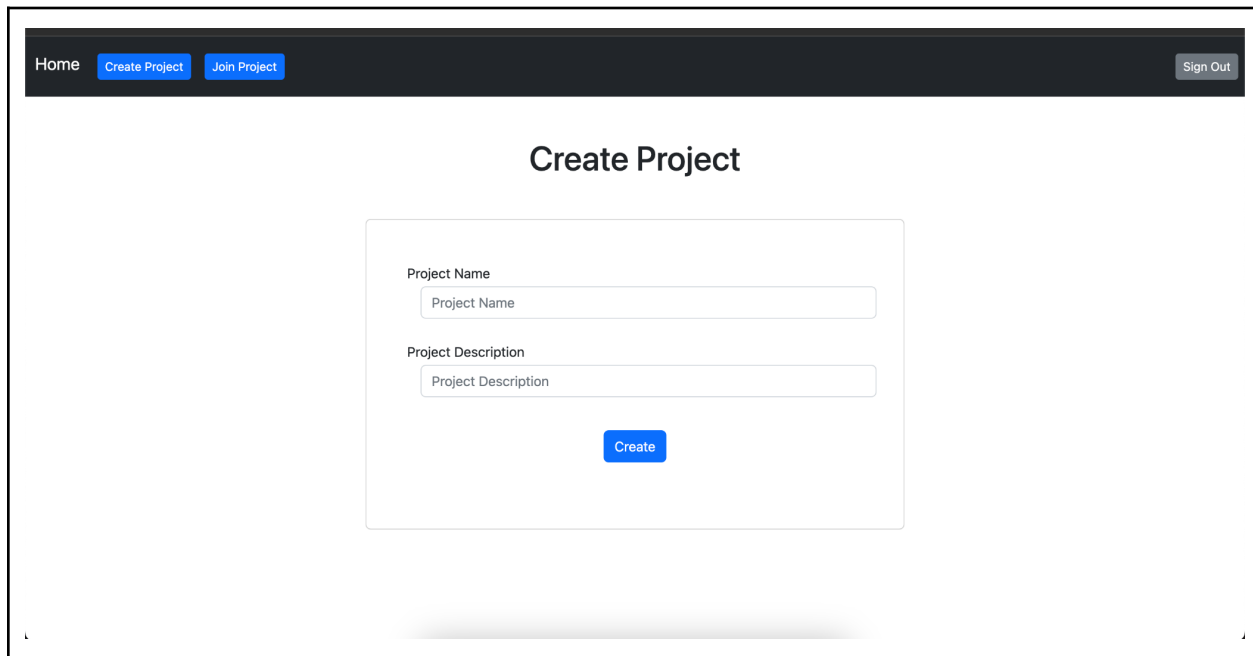
Server Messages

If the user attempts to check in more than the user has checked out, this message pop up.	If the user attempts to check out more hardware sets then there are available then this message appears
Message ✕ User does not have enough hardware to check in **Close**	**Message** ✕ Not Enough Hardware **Close**

http://localhost:3000/create_project

From this page the user can create a project. The user need to define a unique project name and fill in anything into the Description field.. Once the fields have been filled with valid inputs and the "Create" button has been pressed, it creates the project and adds the user to the project.
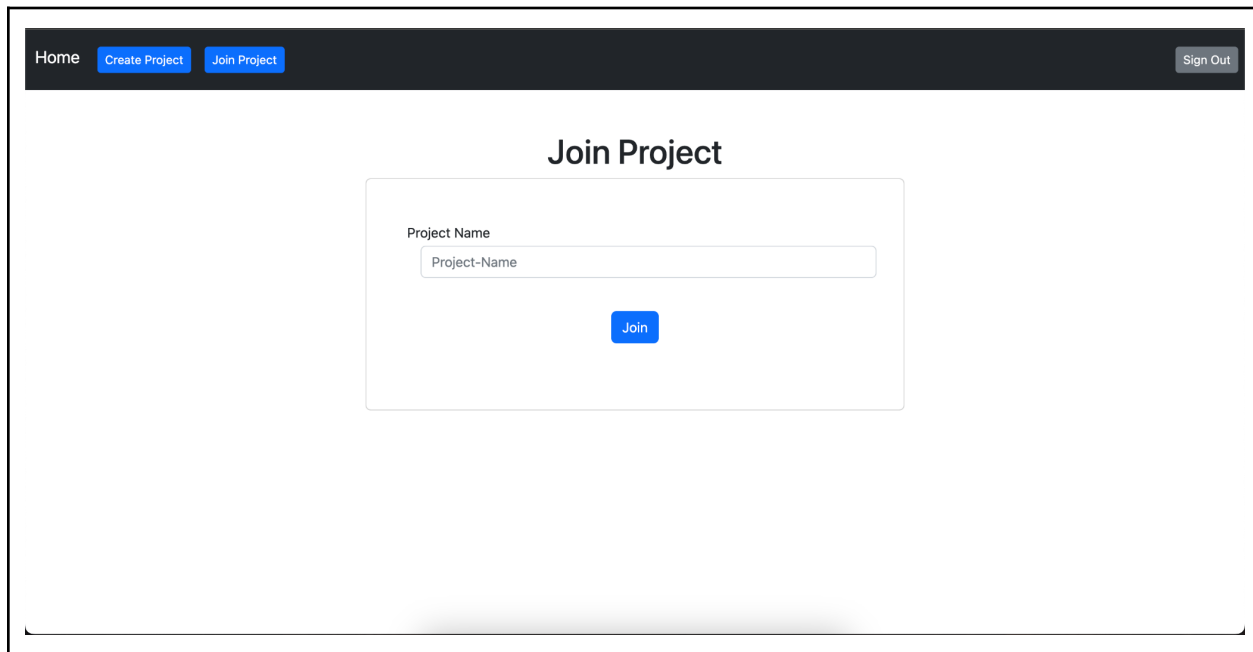
Server Messages

If the user enters an existing project name into fields and clicks "Create" , then this message pops up.

http://localhost:3000/join_project

From this page the user can join any exiting project through the unique project name of the targeted project.

Server Messages

If the user attempts to joining a project that does not exist then this

Database

For this application, we utilized Mongo DB for the storage and management of data relating to users and project details.

General Structure of Database:

```
Management
        ↪ Users
                ↪ UserID
                ↪ Username
                ↪ Password
                ↪ Projects
                ↪ HWSets
        ↪ Projects
                ↪ Project Name
                ↪ Project Description
                ↪ Authorized Users
        ↪ HWSets
                ↪ Set Name
                ↪ Availability
                ↪ Capacity
```