



# MErge

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# DESCRIPTIVE TITLE

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Machine shop website scheduler



# SPONSOR

University of  
Idaho  
Mechanical  
Engineering

**OBJECTIVE  
STATEMENT**

- To facilitate the ability to connect students and faculty to school resources.

## ROOT PROBLEM

- GOAL:
  - To create a clean and functional design for ME machinery usage and billing scheduling system.
  - A calendar scheduling system for students to request time at specific machines.

# CLIENT NEEDS

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## **Major Tasks:**

*Create a Welcome Page with Calendar Viewer Machine:*

+600 Users must be able to access the landing page and the ability to see the current calendar.

*Add a login and Authentication Page:*

+600 Users must be able to login with their school credentials to make a reservation.

*Basic adding of machines:*

Ability to add and delete machine units from the machine list.

*Calendar Database Setup:*

Ability to hold data that's associated with the calendar.

*Calendar Database Interaction:*

Configure database to retain the most recent data regarding the scheduling system.

*Add billing and notification system:*

Send a notification to billing offices with the required information

*Login Profiles and Privileges Functionality:*

Able to create profiles for admin, manager, & users.

*Login Authentication Functionality:*

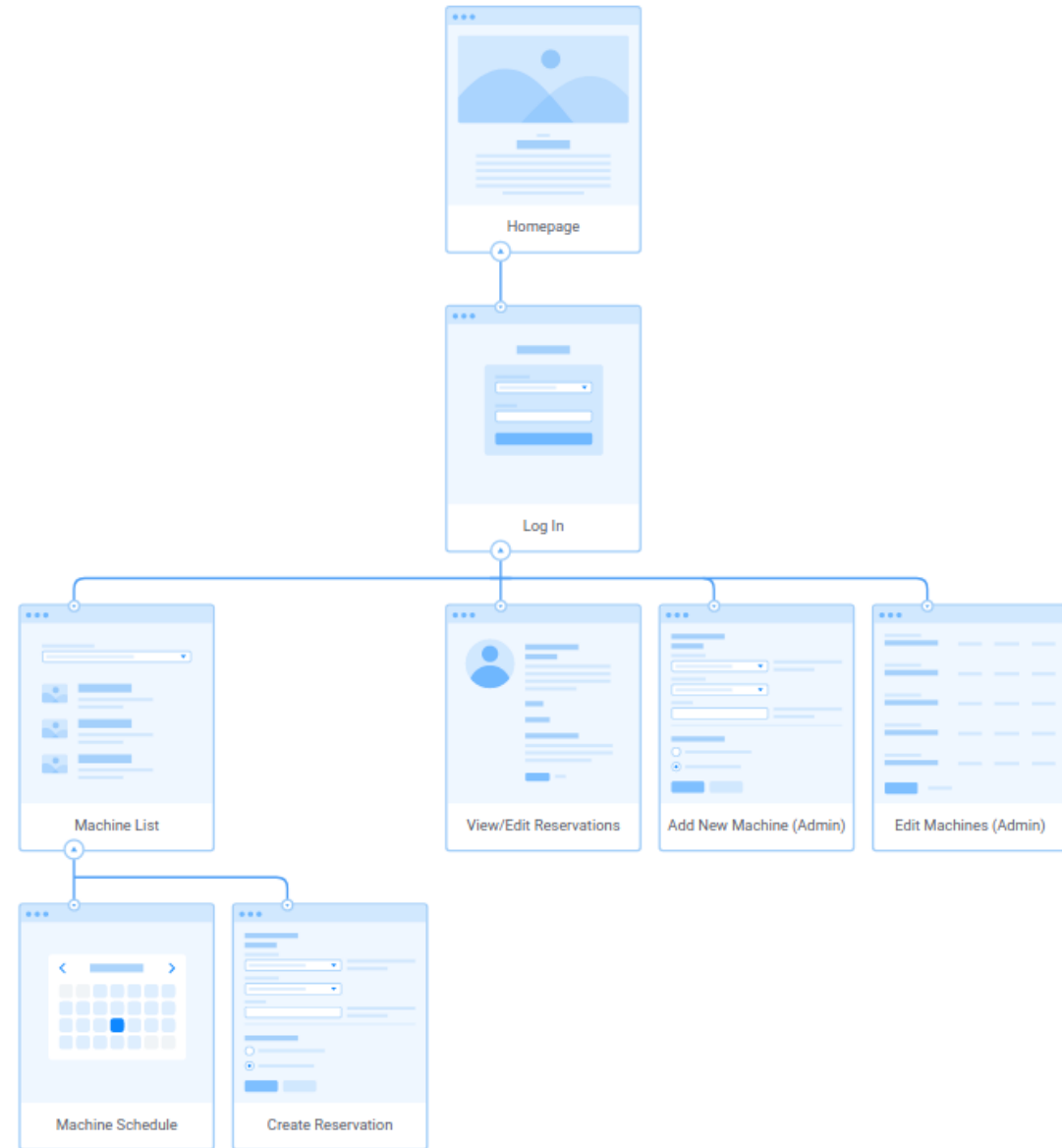
Able to correctly validate users' credentials.

# Project learning

- Documentation of project learning such as literature review, product dissection, calcs, experiments, empathetic studies

# Design

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## SCHEDULE

TASKS	DATES
Learning Basics of React and Frameworks	10/8/2019
Viewer Machine Calendar and Welcome Page	10/11/2019
Login and Authentication Page	10/17/2019
Basic adding of machines	11/10/2019
Looking at potential databases	11/21/2019
Look at potential hosting locations	11/25/2019
Find where to host this website	11/28/2019
Calendar Database Setup	12/01/2019
Calendar Database Interaction	1/10/2020
User Scheduling Database Interaction	1/20/2020
Add billing system	1/26/2020
Login Profiles and Privileges Functionality	2/01/2020
Login and Authentication Functionality	3/1/2020

# BUDGET

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	2019/2020							
Expense Items	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Equipment/Tools:	-	-	-	-	-	-	-	-
N/A	-	-	-	-	-	-	-	-
Travel:	-	-	-	-	-	-	-	-
N/A	-	-	-	-	-	-	-	-
Supplies / Parts / Services:	-	-	-	-	-	-	-	-
N/A	-	-	-	-	-	-	-	-
Shop Usage (est. Hrs):	-	-	-	-	-	-	-	-
N/A	-	-	-	-	-	-	-	-

Item Total			
Equipment/Tools	\$ -		
Travel	\$ -		
Supplies / Parts / Services	\$ -		
Shop Usage (est. Hrs)	\$ -		
		\$ -	<b>Expenses Subtotal</b>
Graduate Student Support	\$ -	Including fringe	
Shop Overhead	\$ -		
University Overhead	\$ -	5% of all expenses	
<b>Totals</b>	\$ -	\$ -	\$ -
		Budget	Excess