

Criterion B: Design

Sample files supplied by client

Member Name	2022_12_15	2022_12_22	Total Regular Hours for Each Member
Adele	3	3	6
Alina	0	0	0
Ambrosio	0	0	0
Anushka	3	3	6

Figure 1: Regular hours file

Member Name	2022_12_18_d	2022_12_20_p	Total Overtime Hours for Each Member
Adele	1	1	2
Alina	1		1
Ambrosio	0		0
Anushka	0.75	0.17	0.92

Figure 2: Overtime hours file

Member Name	Amount Produced
Adele	0
Alina	0
Ambrosio	0
Anushka	0

Figure 3: Production file

Member Name	Amount Sold
Adele	0
Alina	0
Ambrosio	0
Anushka	0

Figure 4: Sales file

Total Hours for All Members
147.67

Figure 5: Total hours file

Name of Event	Overtime (1/0)	Total Duration of	Total Attendance of Everyone
_2022_12_15	0	3	70.5
2_12_18_discord	1	1	10.17
_2022_12_20_p	1	1	4.17
_2022_12_22	0	3	64.76

Figure 6: Summary file

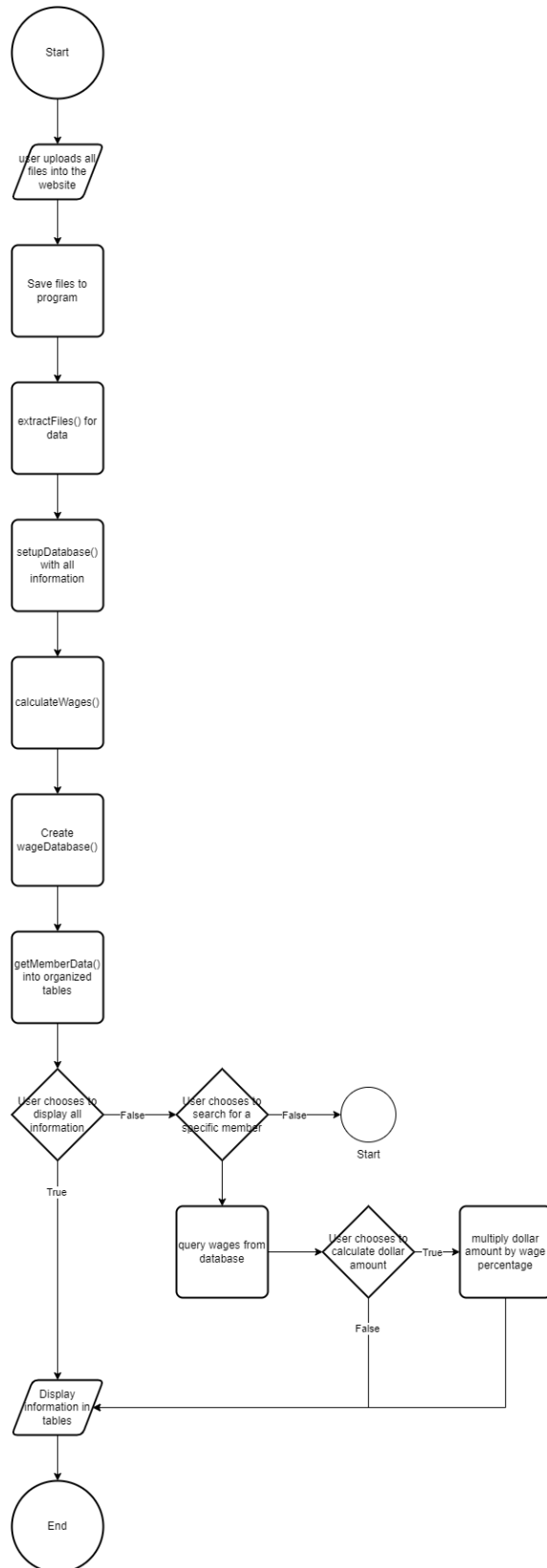


Figure 7: Main Program Algorithm

Subprograms and Important Function

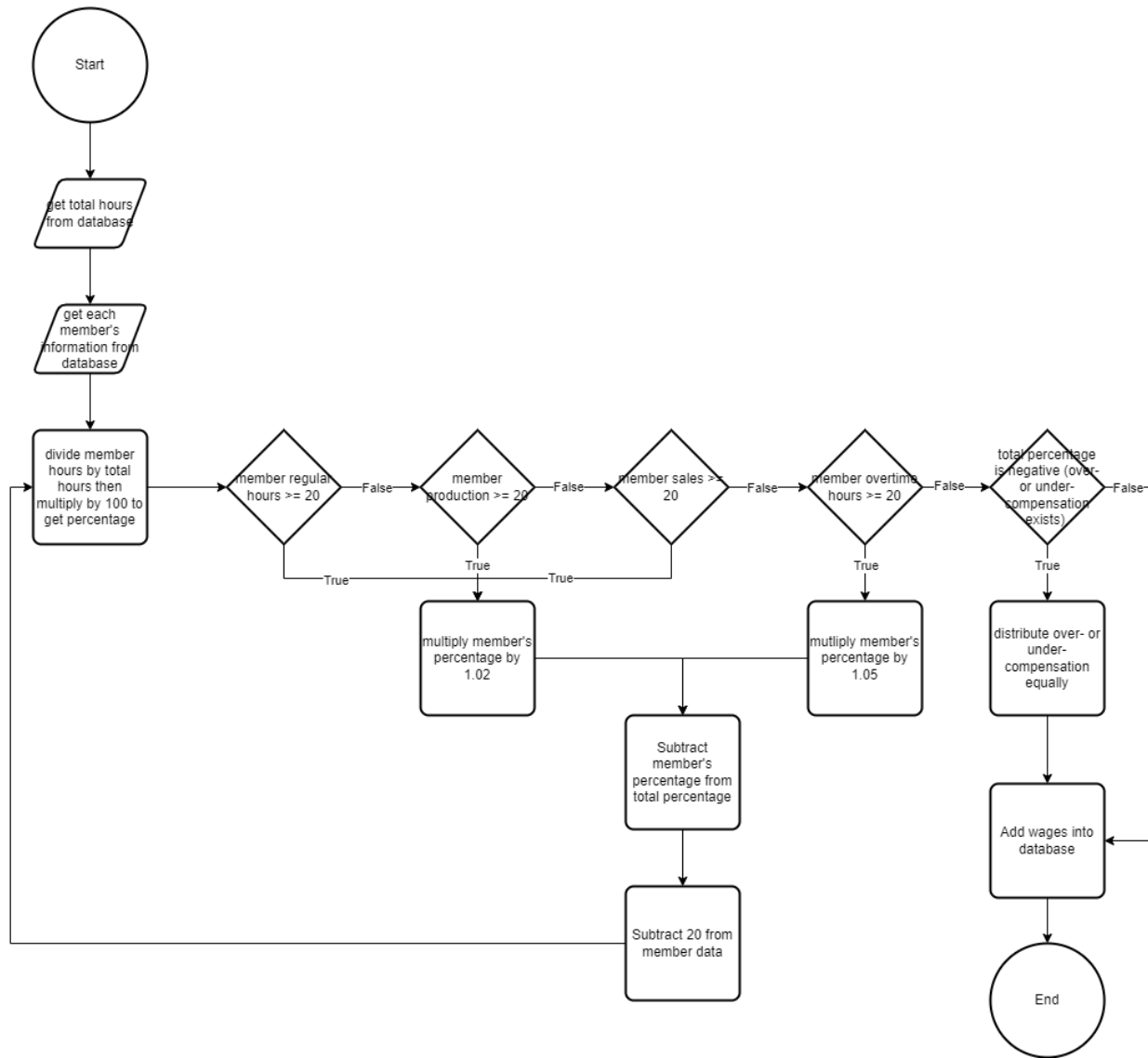


Figure 8: Calculating the wage percentages

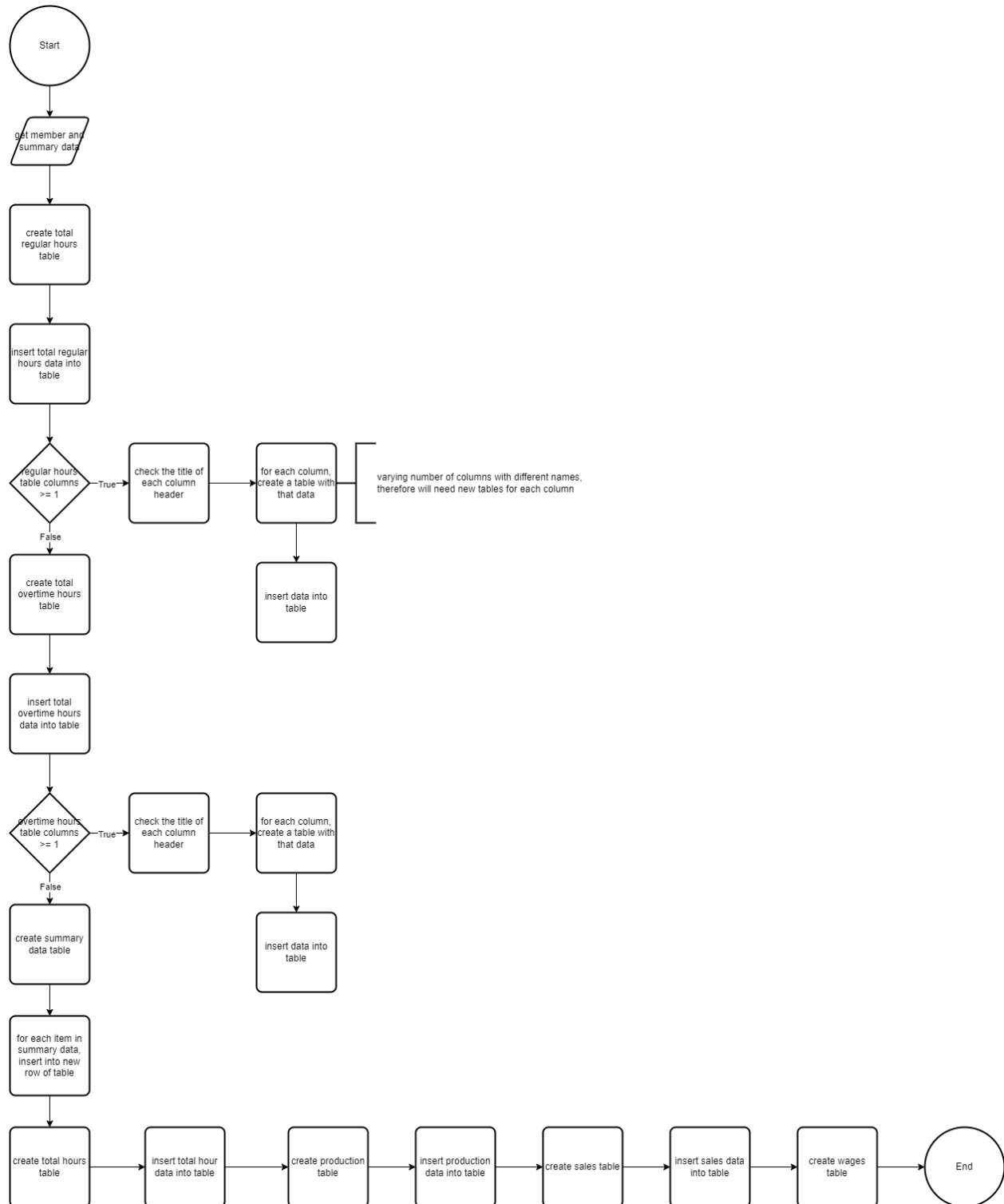


Figure 9: Setup database flowchart

User Interface Overview

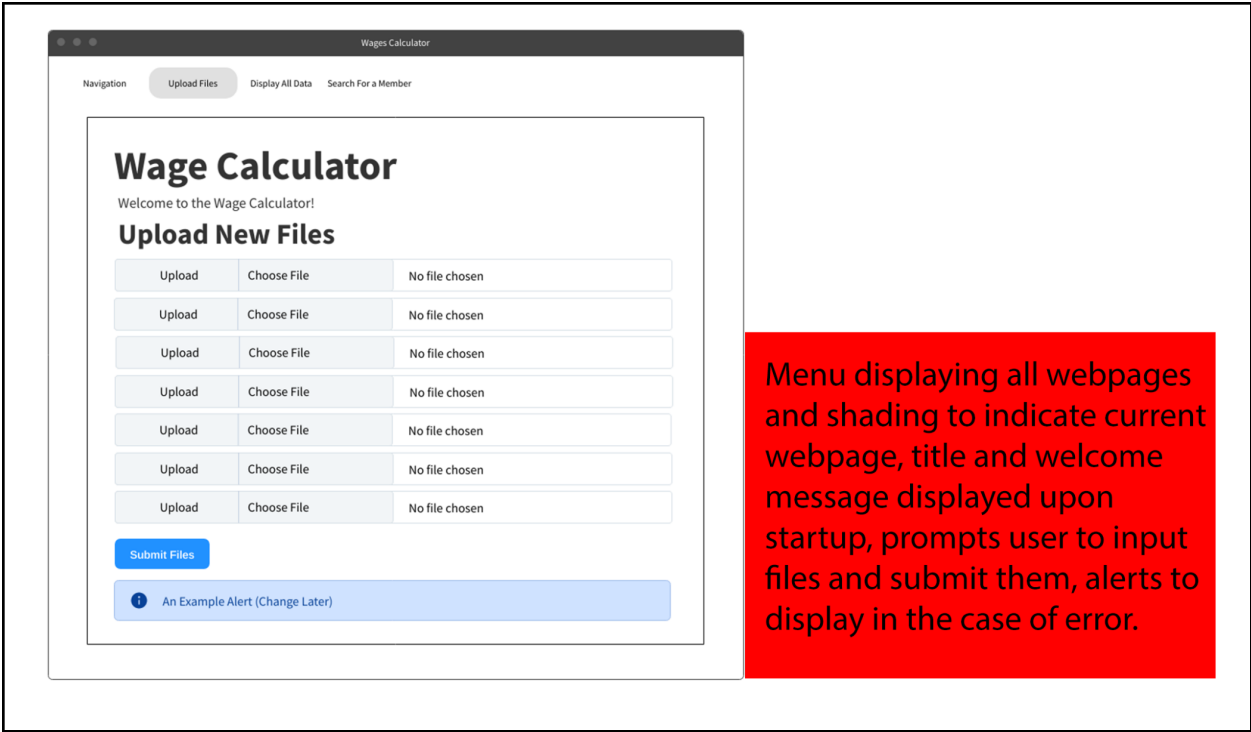


Figure 12: Main Page Mock-Up

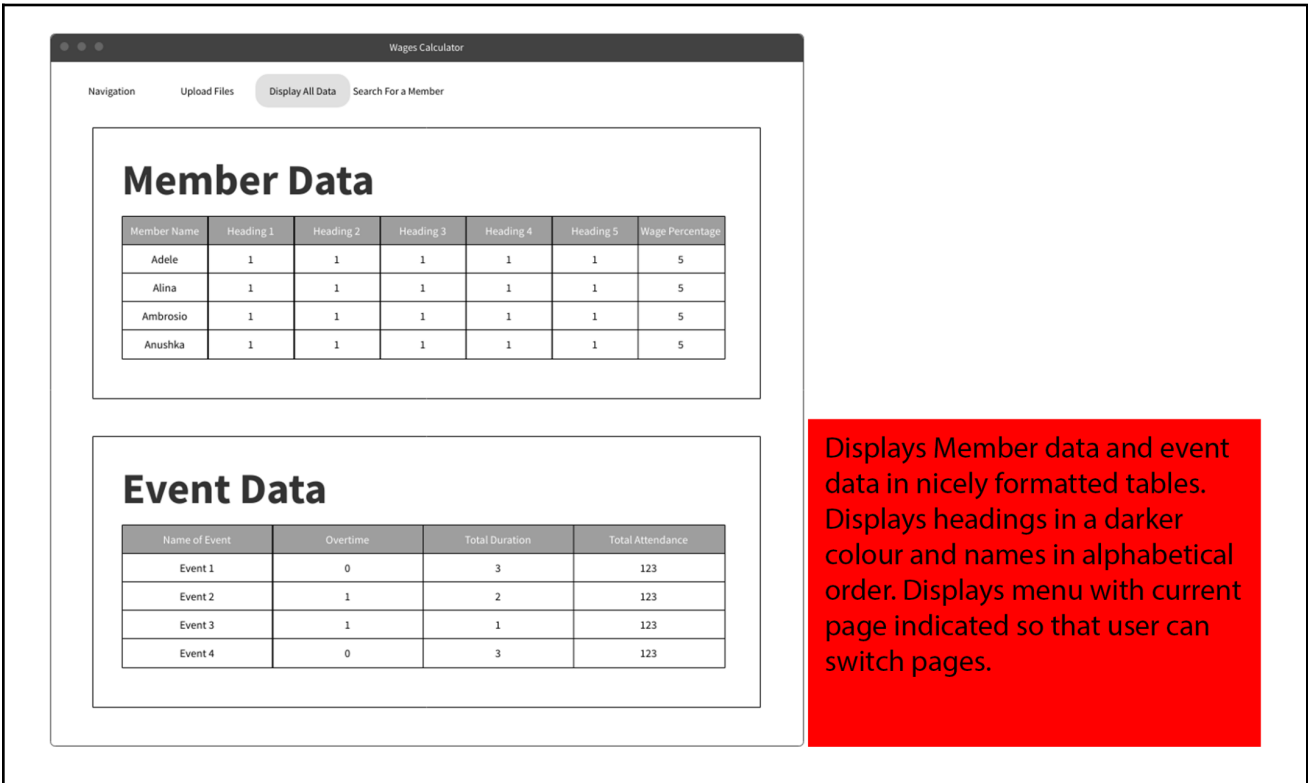
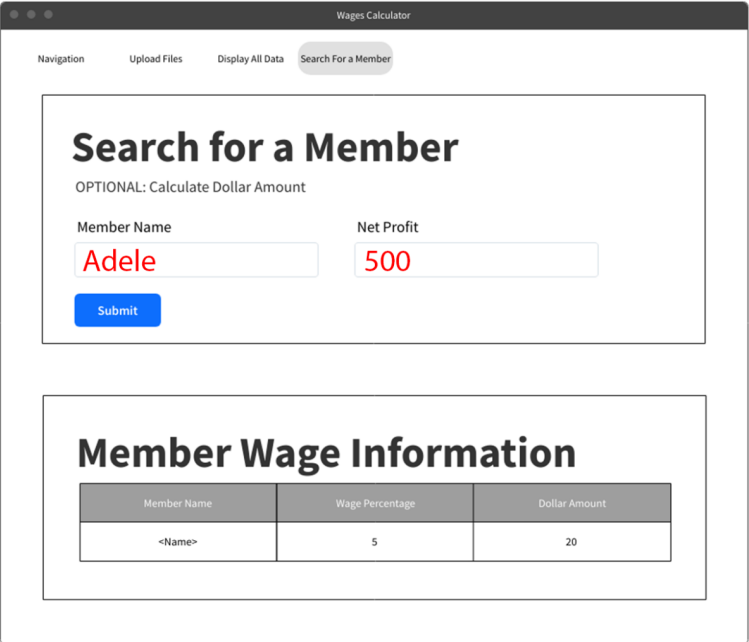


Figure 13: Data Page Mock-Up



Prompts user to input member name to search for, and an optional input for the net profit to calculate the dollar amount. After user submits, updates the wage table with member wage information. If errors occur, display alert. User input is in red text.

Figure 14: Member Page Mock-Up

Test Plan

Action to Test	Method of Testing	Expected Outcome
Program will display a title and webpage upon starting	<ul style="list-style-type: none"> - Run program and see if webpage and title is displayed 	<ul style="list-style-type: none"> - Webpage appears with title and starting text
Program will display a functioning website navigation bar upon start	<ul style="list-style-type: none"> - Run program and see if navigation bar is displayed - Click navigation options and see if the options direct to different webpages 	<ul style="list-style-type: none"> - Navigation bar displays and current page is indicated - Navigation options direct to different pages with current page indicated
Program will allow user to upload .csv files upon running	<ul style="list-style-type: none"> - Run the program and see if main page displays file inputs - Input files into the program - See if allowed files is .csv 	<ul style="list-style-type: none"> - File inputs are displayed on main page - User can upload .csv files into program - Allowed files in file selection window is

		.csv and .txt
After uploading files, displays file names in the file input box	<ul style="list-style-type: none"> - Upload files and see if file name is displayed in the input box 	<ul style="list-style-type: none"> - File name is displayed
Program will display error messages when data has not been uploaded	<ul style="list-style-type: none"> - Press submit without uploading files - Press submit after uploading an incomplete number of files - Press submit after uploaded incorrect file types - Press submit after uploading incorrect files into input box 	<ul style="list-style-type: none"> - Alert is displayed telling user to upload all files - Alert is displayed telling user to select the correct file type - Alert is displayed informing the user that an error has occurred
Program will display all information in the .csv files in a table	<ul style="list-style-type: none"> - Go to "View All Data" page and see if tables are displayed - Go to "View All Data" page and see if tables contain all information 	<ul style="list-style-type: none"> - Member data and event data are displayed in tables - All information that is in the files is displayed in the tables
Program can accurately calculate wages	<ul style="list-style-type: none"> - Go to "View All Data" page and see if table displays "Wage Percentage" column - Add up all the wage percentages to see if they add up to 100% 	<ul style="list-style-type: none"> - Table contains "Wage Percentage" column - All wage percentages add up to 100%
Program will allow user to search for member wages	<ul style="list-style-type: none"> - Go to "Search for a Member" page and see if text inputs are displayed - Type in a name displayed in the "Member data" table and see if table updates - Type in incorrect names to see if alerts are displayed 	<ul style="list-style-type: none"> - Text inputs are displayed on the "Search for a Member" page - Table updates after the name is submitted into the form - Submitting incorrect names results in alerts

Program can output projected wages when given profit	<ul style="list-style-type: none"> - Submit a number along with the name into the "Net Profit" input and see if projected wages are displayed in the table - Confirm accuracy by manually calculating projected wages 	<ul style="list-style-type: none"> - Projected wages are displayed in the table - Projected wages are accurately calculated
Database follows first and second normalization forms	<ul style="list-style-type: none"> - Go into database file and see if database follows first and second normal forms 	<ul style="list-style-type: none"> - Database does not have any null or empty cells - Each column in each table is related to the primary key