Team Name:

The Pirates

Team Website:

https://github.com/John-Stovall/ThePirates

Team Contacts:

Ryan Hansen - ryanchansen@hotmail.com

Rand Almaroof - Rand3@uw.edu

 $\textbf{Robert Cordingly} \textbf{-} \underline{\textbf{robertcordingly@gmail.com}}$

Reagan Stovall - reaganstovall@gmail.com

User stories:

- 1) As a user, I'd like to have the program help collect data, make basic calculations, and help weigh costs versus benefits for smaller sized projects so I can make the best financial decisions.
- 2) As a user, I'd like to have the option to make several possible projects and choose between them to find the one which best fits my budget.
- 3) As a user, I'd like for the program to have some sort of bill estimator built into it to help me forecast my potential monthly savings.
- 4) As a user, I'd like for the program to be portable and usable on multiple devices for easy access on the go.
- 5) As a user, I'd like for the program to have some sort of export capability so I can save my files for later use and hand them off to possible contractors.
- 6) As a user, I'd like for the application to be accessible without a data connection while using it from a mobile device for ease of access.
- 7) As a user, I'd like for the program to able to let me edit current projects for small changes or errors I could have made in the initial setup.

Business Rules:

- 1) The program will ask the user for specific data pertaining to each type of project.
- 2) The program will have check boxes which will include or ignore which projects will be considered while calculating monthly savings.
- 3) The program will be able to run on a mobile platform as well as desktop.
- 4) The program will have an edit feature for each different type of project.

Application Design:

First time use will require a user name as well as a valid email but will stayed logged in till the user logs out for convenience.





Home

Home

Projects

Project 1

Project 3

About

New Users will also be required to fill out basic home information for improvement calculations

Multiple users will also be supported, but will only be accessible when the current user logs out



Frojected

Total Saved

Project Queue
Project 1
Project 2
Project 3
Summary

The typical application

open page will be the Home page where past and future projected savings will be shown in a simple graph. A secondary graph projection will show future possible savings based

on projects in the Queue.

The Icon on the top Left is a directory that leads to other pages.

While the user icon on the upper Right opens more settings related options



- **Projects:** The projects page will have icons that when clicked all lead to a new projects.
 - For now we will focus on only insulation and add the rest when we fill comfortable with the design.
- About: A simple page that tells the user who made the app and why.
- History: A page for reviewing past projects and how much the user has saved from making those changes
- Summary: The Summary page shows all currently considered projects and allows for simple cost comparisons. This is also nice in that users can price out different materials and different amounts as different projects for the same fix.









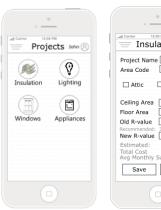
- Edit User: Allows the user to change their user-name and or email.
- **Home Info:** Allows the user to update Home Information.
- **Export csv:** This will export a csv file of all information on past projects.
- Logout: This takes the user to the login page.







A Little More Detail





Projects:

The projects page has icons that open new projects like Insulation.

A generic name is left as optional, or the user can specify a new one. The page retrieves the necessary information to

calculate the cost and also generate s an insulatio







recommendation depending on the area code.

A current project can also be viewed and accessed from the summary page as well as the Home page.

While past projects can be viewed and accessed from the History Page.



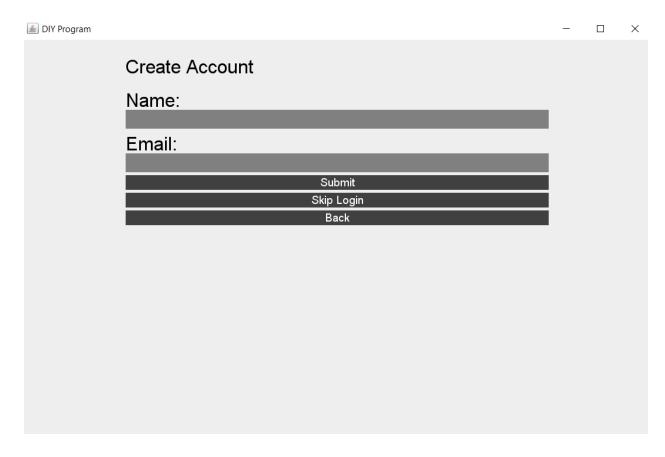
When viewing past projects, only the delete or cancel buttons will be enabled.

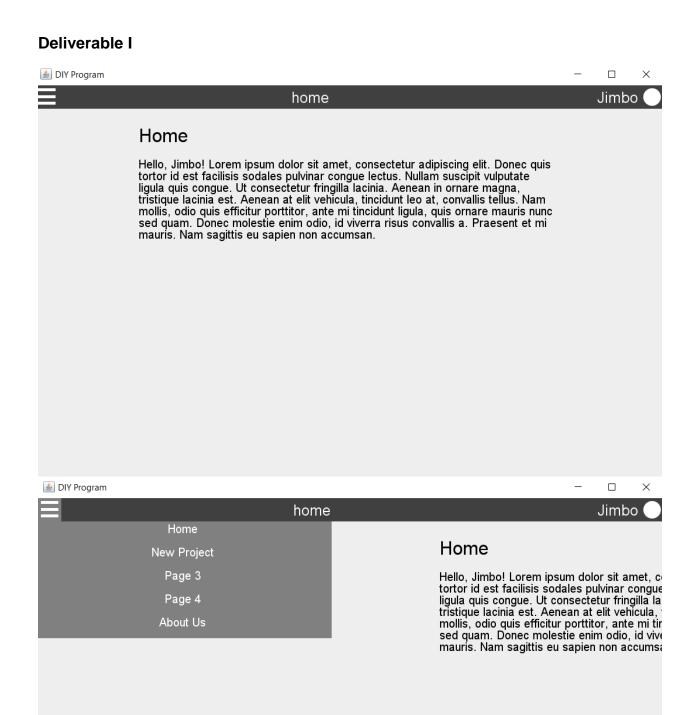
From either the Summary Page or Home, if no text fields are selected, A complete option is made available at the bottom of the screen. The complete button removes this project from the Project Queue and Summary Page and adds it to the History page. It also updates the calculated monthly savings graph to incorporate the new savings

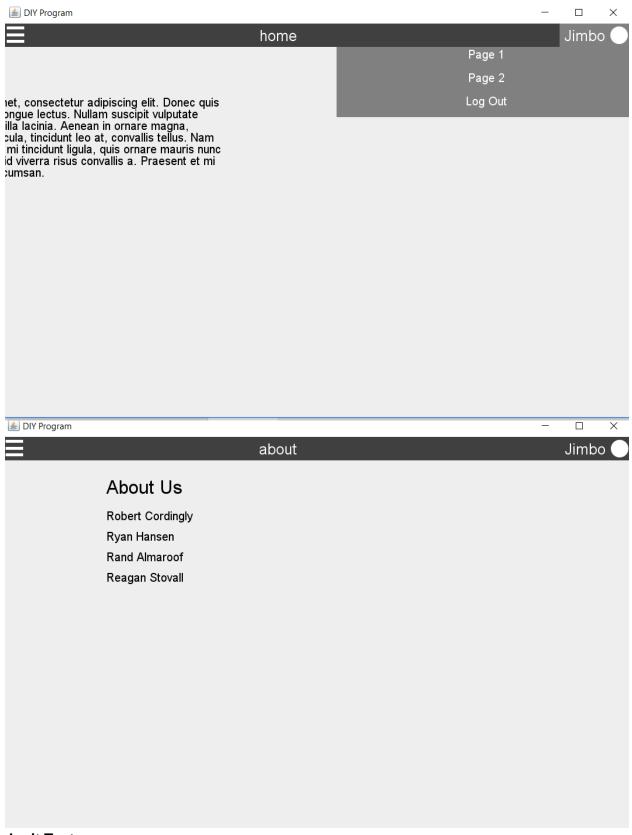


GUI:

Currently the app opens to the Create Account Page if no user is saved, but gives the option for known users as seen below. The menu bar displays the current User and dropdown is used to navigate







Junit Tests:

- That the user name was at least 4 characters long, excluding leading and trailing spaces.
- The email provided contained at least one @ sign.
- The email provided contained a ".com" as we are somewhat exclusive.

Built the Check methods to easily accommodate future tests if needed.

```
🛱 Package Explorer 🚮 JUnit 🔢 💢 🖽
   Main.java 13 204
                                                                                                       ☑ Mestjava 23
Finished after 0.031 seconds
                                                                                                                     //Naming Tests
  Runs: 8/8 D Errors: 0 D Failures: 0
                                                                                                                     public void test1() {
    String test1 = "bob";
    Assert.assertFalse(Main.testName(test1));
                                                                                                         12
13
                                                                  816
                                                                  829
83
84

▼ gui./Test [Runner: JUnit 4] (0.004 s)

                                                                                                         14
15
169
17
         test1 (0.000 s)
         test2 (0.000 s)
                                                                  85
86
87
88
89
91
92
93
94
95
96
97
98
                                                                                                                    public void test2() {
   String test2 = "boby";
   Assert.assertTrue(Main.testName(test2));
         test3 (0.000 s)
         ₩ test4 (0.000 s)
         test5 (0.000 s)
         test6 (0.001 s)
                                                                                                                    public void test3() {
   String test3 = "Big John";
   Assert.assertTrue(Main.testName(test3));
        test7 (0.000 s)
        test8 (0.002 s)
                                                                                                        26
27
28
                                                                                                                    public void test4() {
   String test4 = " bob ";
   Assert.assertFalse(Main.testName(test4.trim()));
                                                                                                         29
30
31
32
33
34
35
36
37
38
                                                 $ 5°
Failure Trace
                                                                                                                     //emailTests
                                                                                                                     public void test5() {
   String test5 = "bob@gmail.com";
   Assert.assertTrue(Main.testEmail(test5));
                                                                                                                    public void test6() {
   String test6 = "boby.uut.edu";
   Assert.assertFalse(Main.testEmail(test6));
}
                                                                                                         39
48
                                                                                                         438
                                                                                                                     public void test?() {
```