Deliverable I

Team Name:
The Pirates

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

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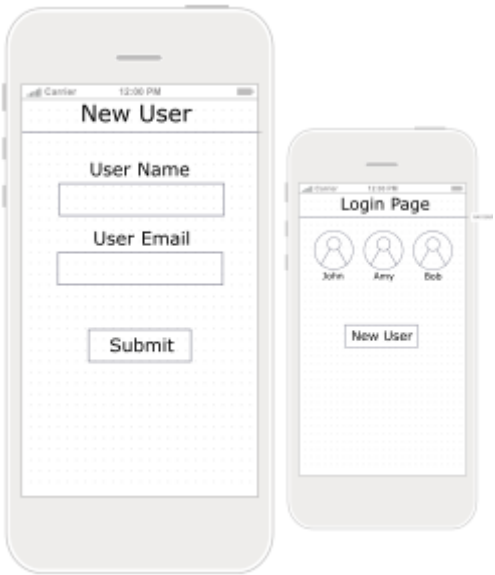
User stories:

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.

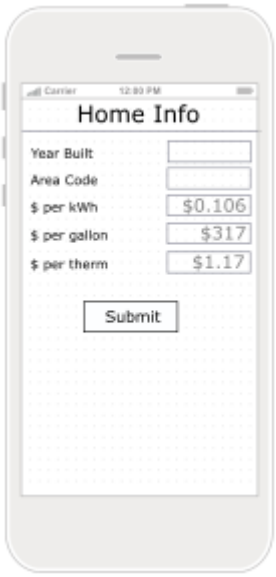
Application Design:



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.

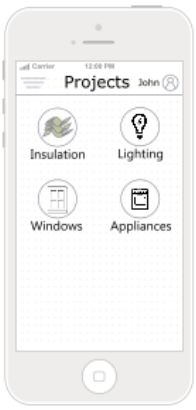
New Users will also be required to fill out basic home information for improvement calculations. Multiple users will also be supported, but will only be accessible when the current user logs out
The typical application open page will be the Home page where past and future projected savings will be shown in a simple graph. A secondary graph projection will show future possible savings based on projects in the Queue.

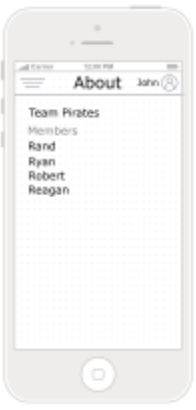
The Icon on the top Left is a directory that leads to other pages.

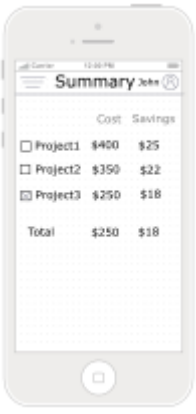


While the user icon on the upper Right opens more settings related options

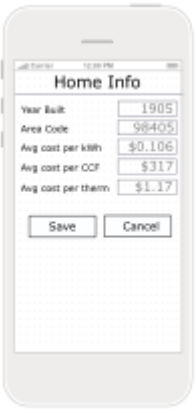
- **Projects:** The projects page will have icons that when clicked all lead to a new projects.
    - For now we will focus on only insulation and add the rest when we fill comfortable with the design.
- **About:** A simple page that tells the user who made the app and why.
- **History:** A page for 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.

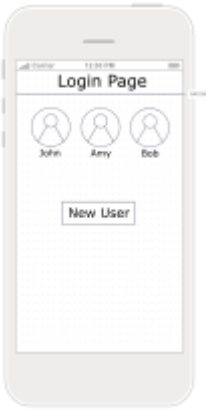




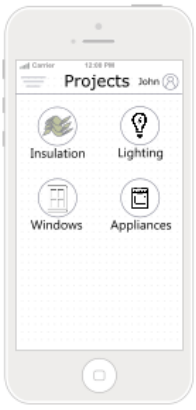


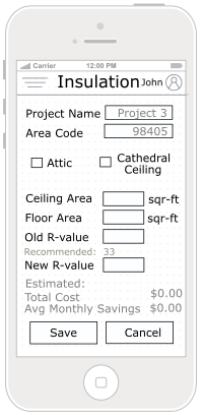
- **Edit User:** Allows the user to change their user-name and or email.
- **Home Info:** Allows the user to update Home Information.
- **Export csv:** This will export a csv file of all information on past projects.
- **Logout:** This takes the user to the login page.





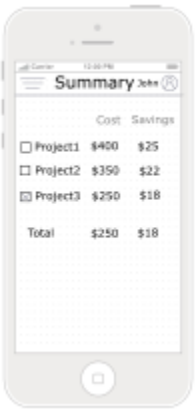
A Little More Detail





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 generates an insulation recommendation depending on the area code.

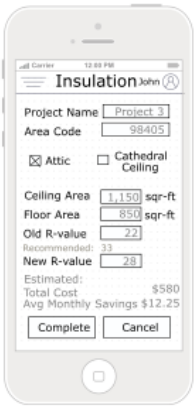


A current project can also be viewed and accessed from the summary page as well as the Home page.

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.

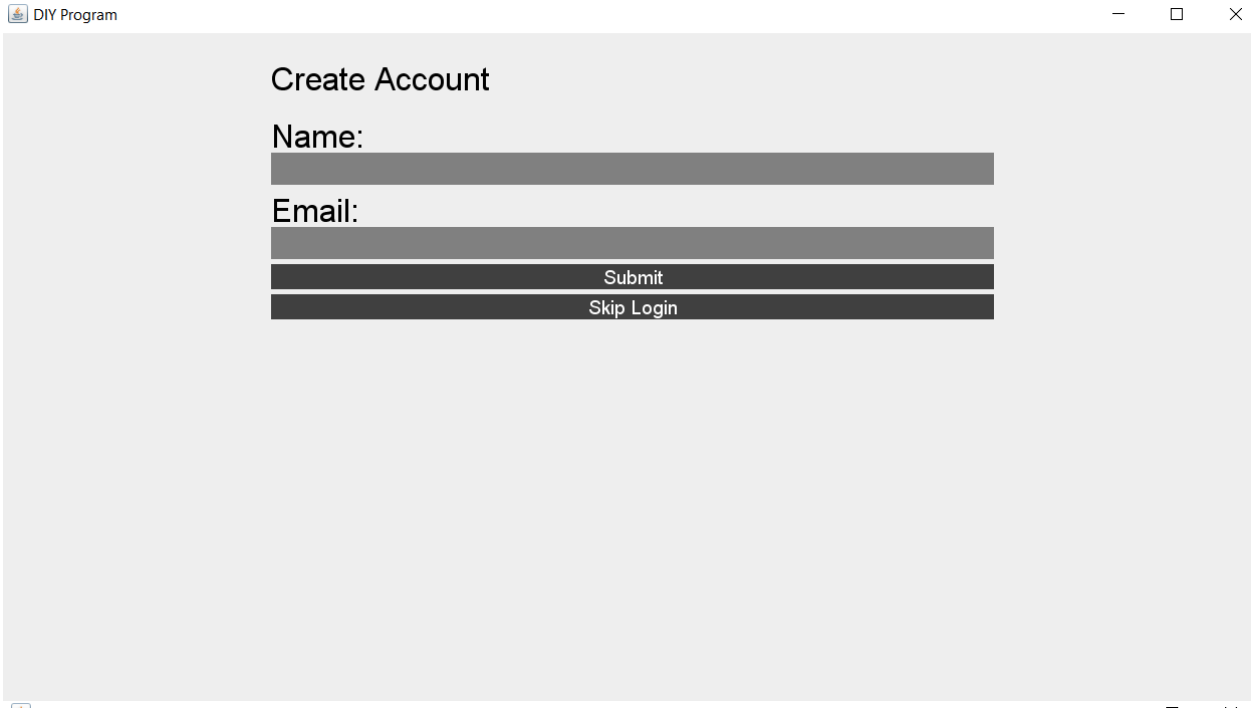
From either the Summary Page or Home, if no text fields are selected, A complete option is made available at the bottom of the screen. The complete button removes this project from the Project Queue and Summary Page and

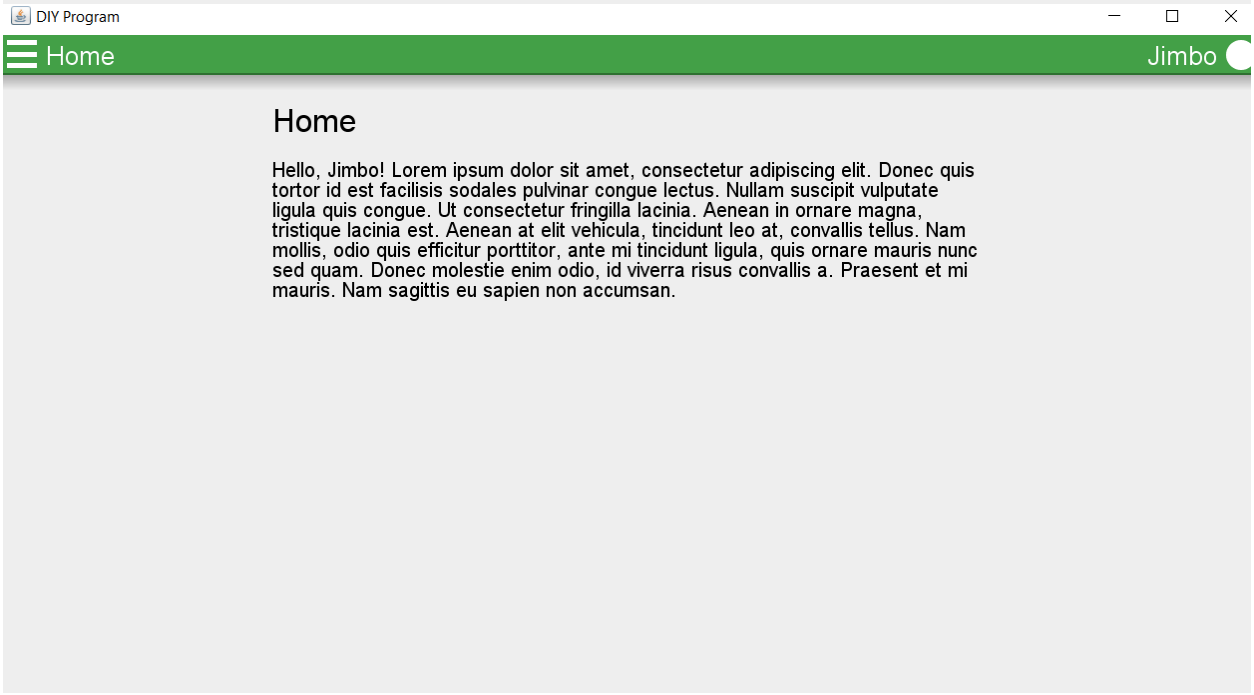


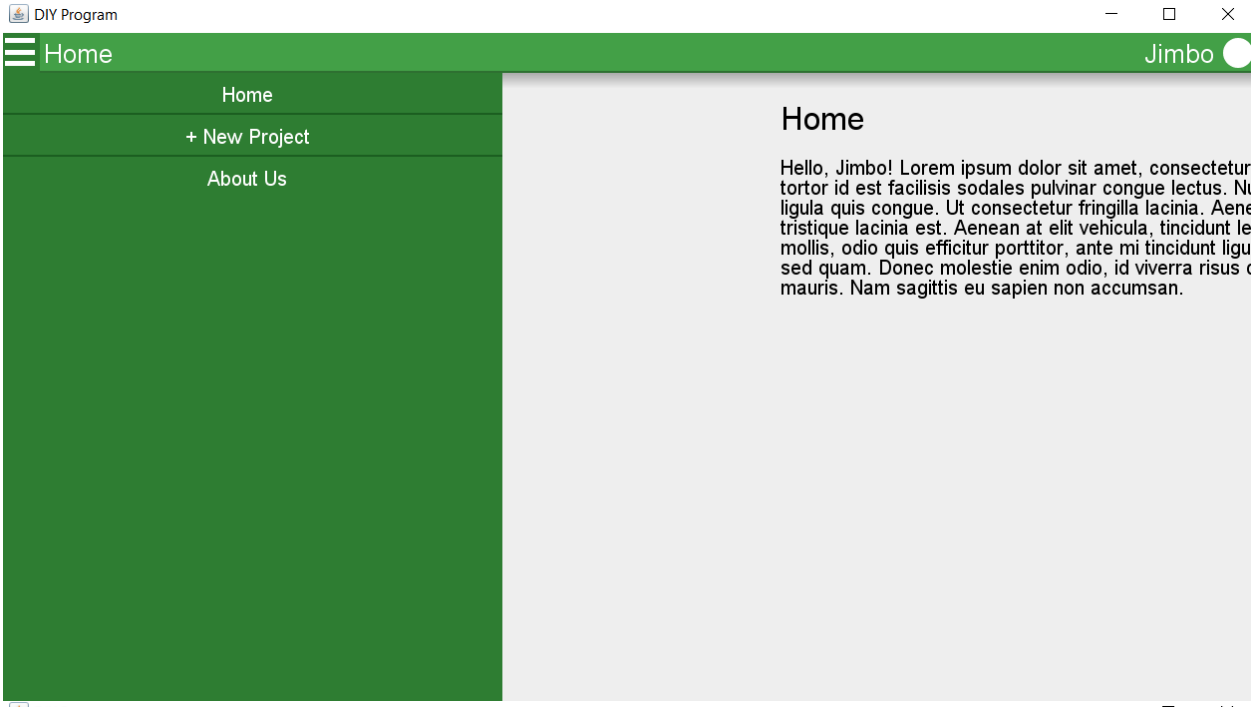
adds it to the History page. It also updates the calculated monthly savings graph to incorporate the new savings

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. Also, the GUI has New Project addition below where it allows users to create new projects according to their needs.






DIY Program
Home
Jimbo
Home
+ New Project
About Us
Home
Hello, Jimbo! Lorem ipsum dolor sit amet, consectetur
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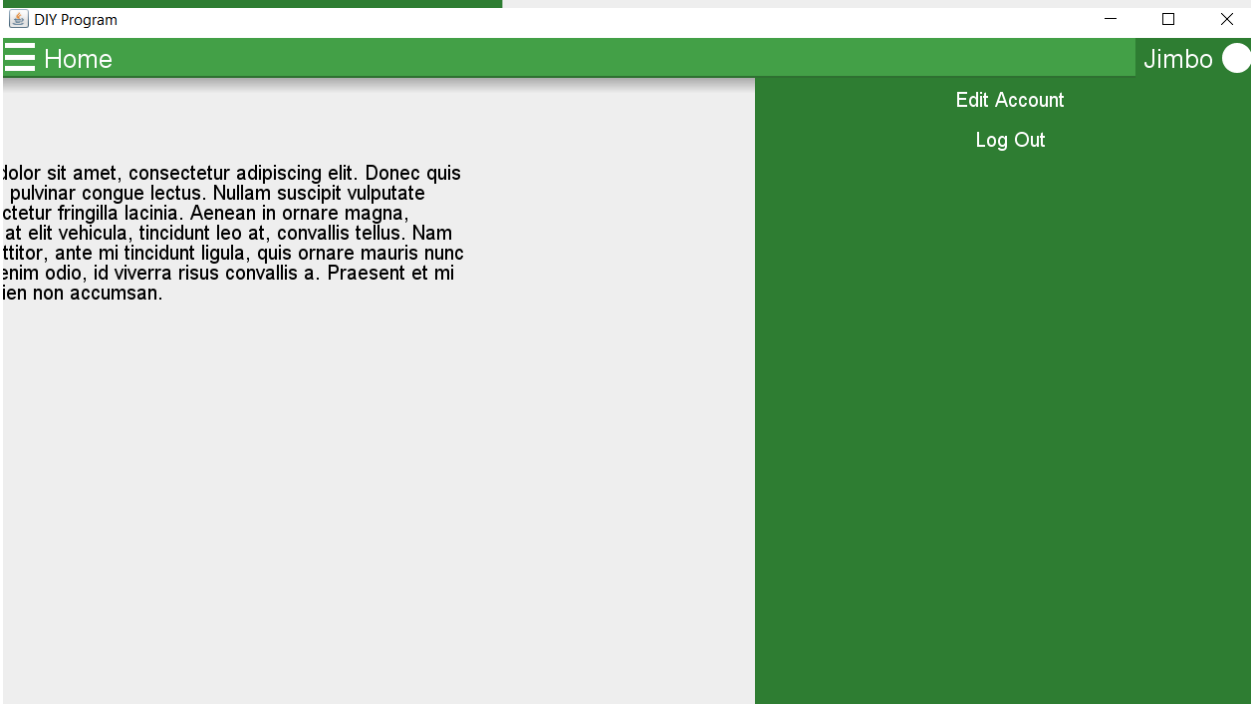
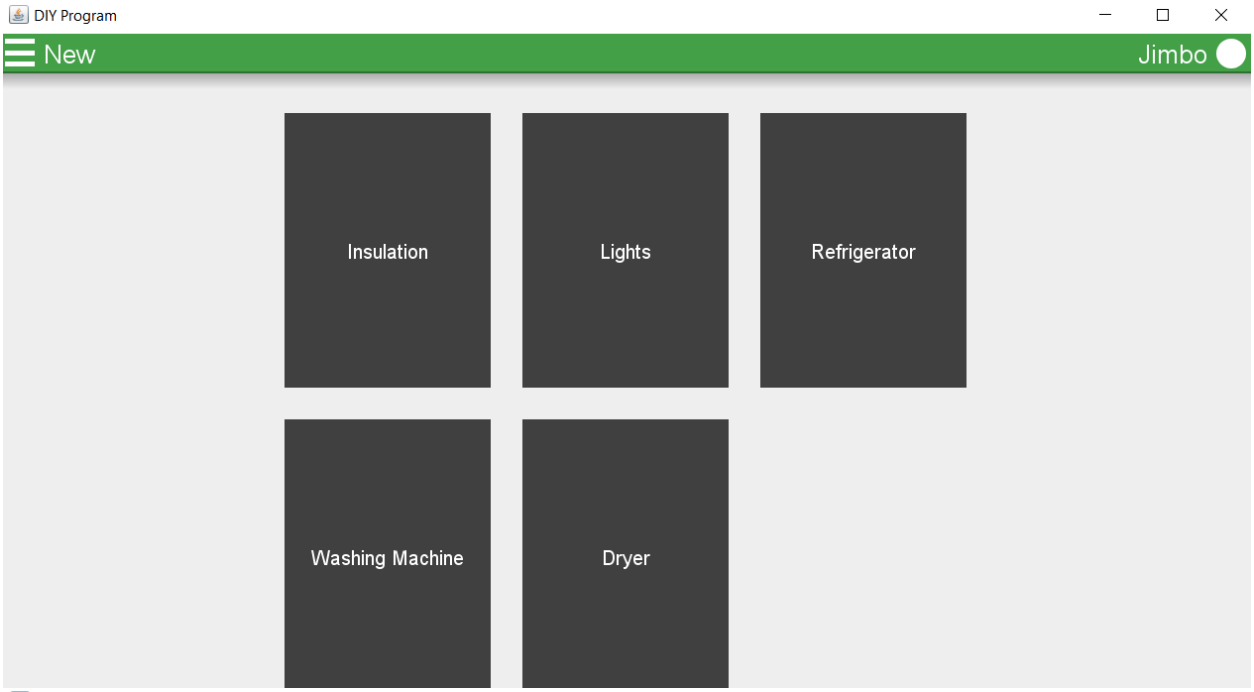
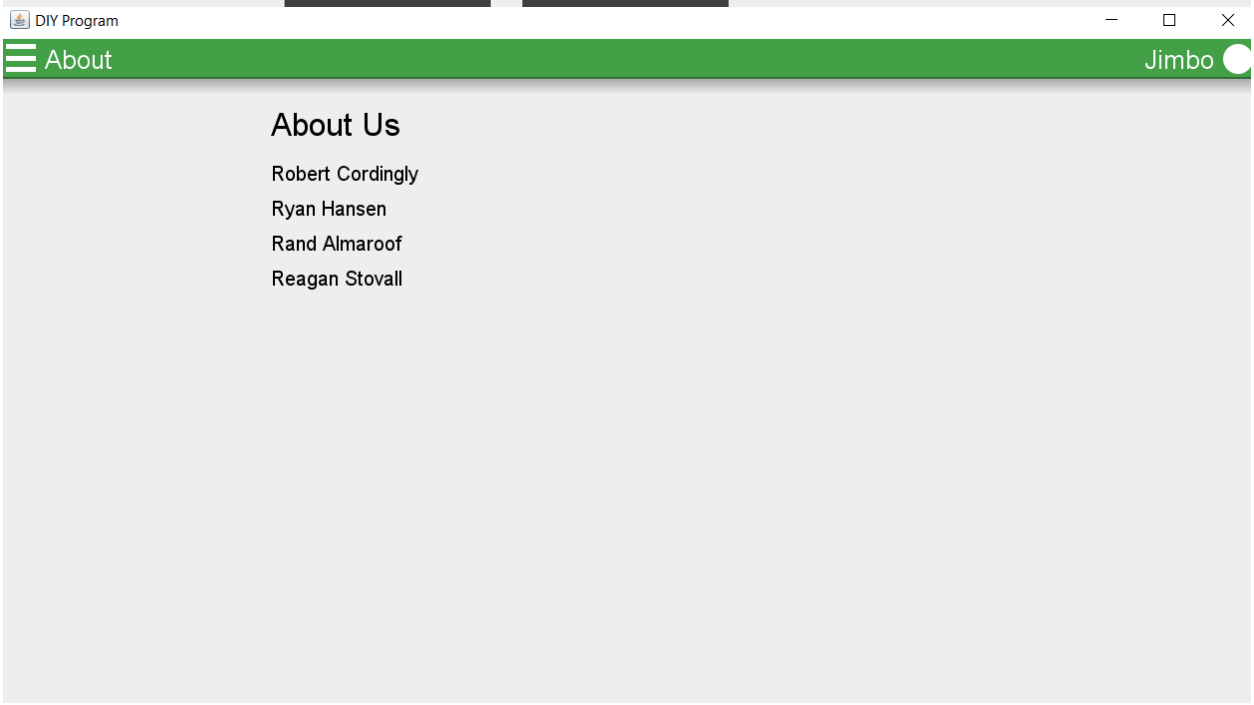
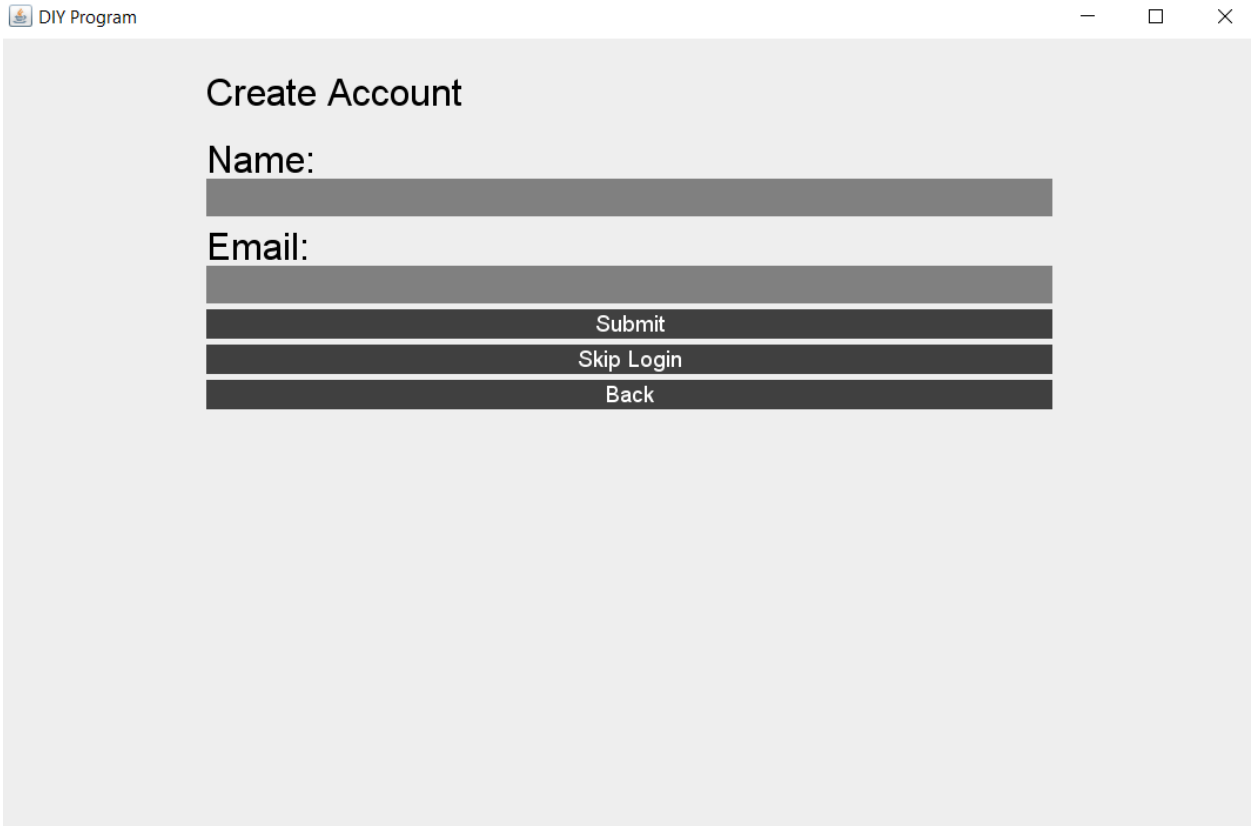

DIY Program
Home
Jimbo
Edit Account
Log Out
dolor sit amet, consectetur adipiscing elit. Donec quis
pulvinar congue lectus. Nullam suscipit vulputate
ctetur fringilla lacinia. Aenean in ornare magna,
at elit vehicula, tincidunt leo at, convallis tellus. Nam
ttitor, ante mi tincidunt ligula, quis ornare mauris nunc
enim odio, id viverra risus convallis a. Praesent et mi
ien non accumsan.

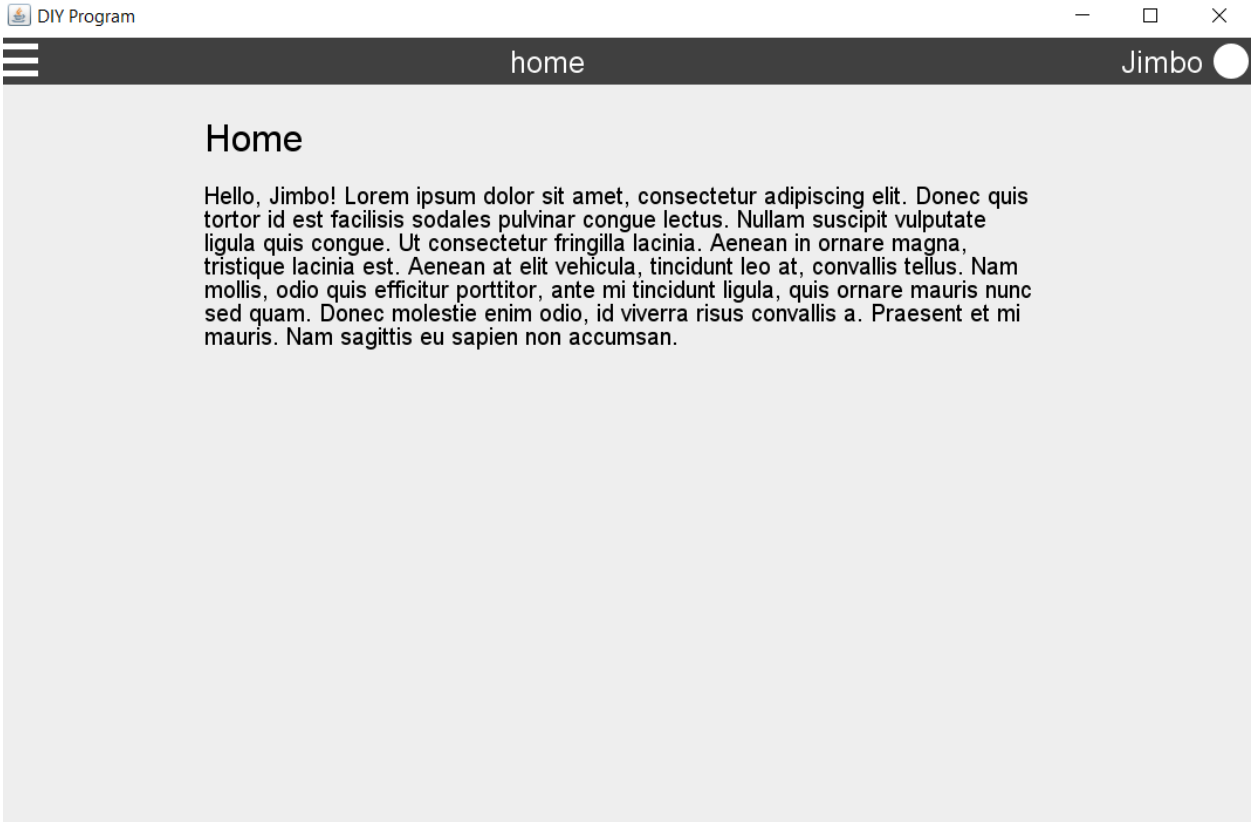

DIY Program
New
Jimbo
Insulation
Lights
Refrigerator
Washing Machine
Dryer


DIY Program
About
Jimbo
About Us
Robert Cordingly
Ryan Hansen
Rand Almaroof
Reagan Stovall

Iteration I:

This is what the group had before the discussion we had in class with other groups.






DIY Program
home
Jimbo
Home
New Project
Page 3
Page 4
About Us
Home
Hello, Jimbo! Lorem ipsum dolor sit amet, c
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ligula quis congue. Ut consectetur fringilla la
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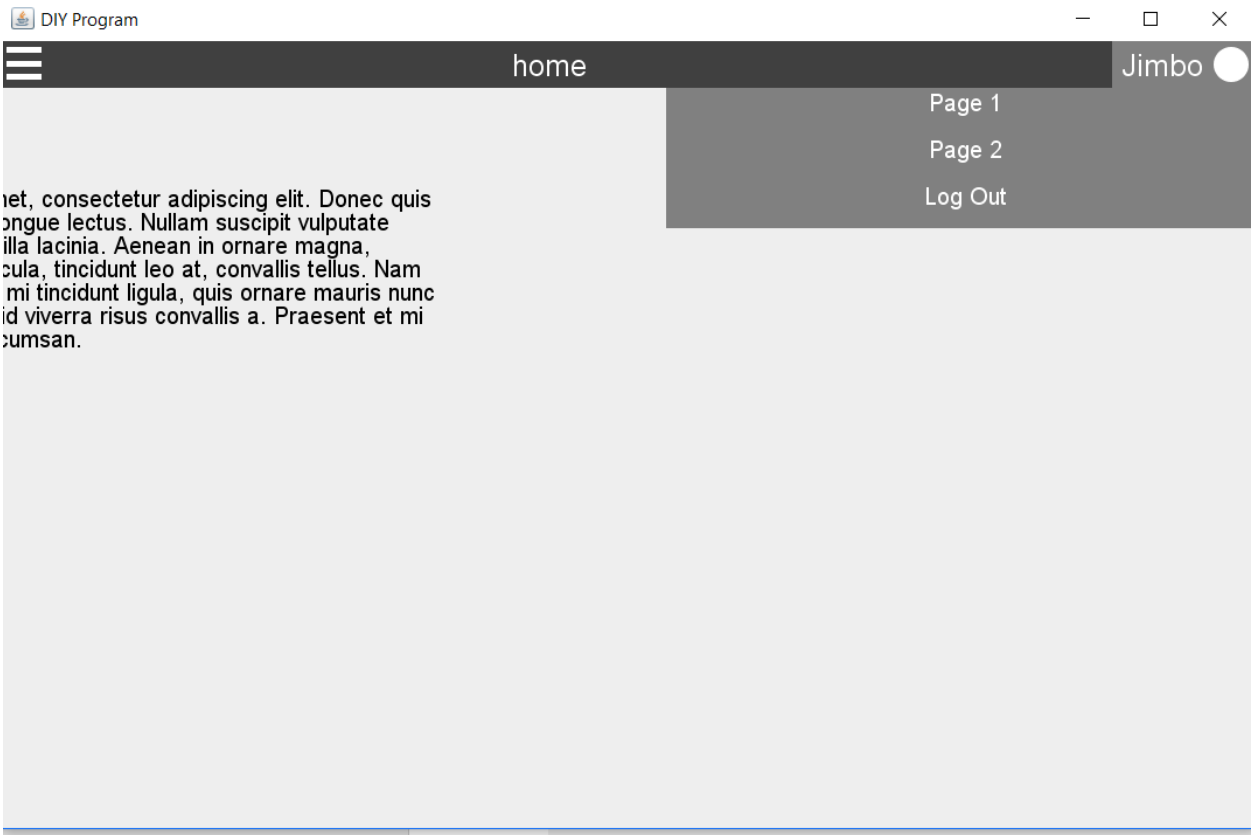
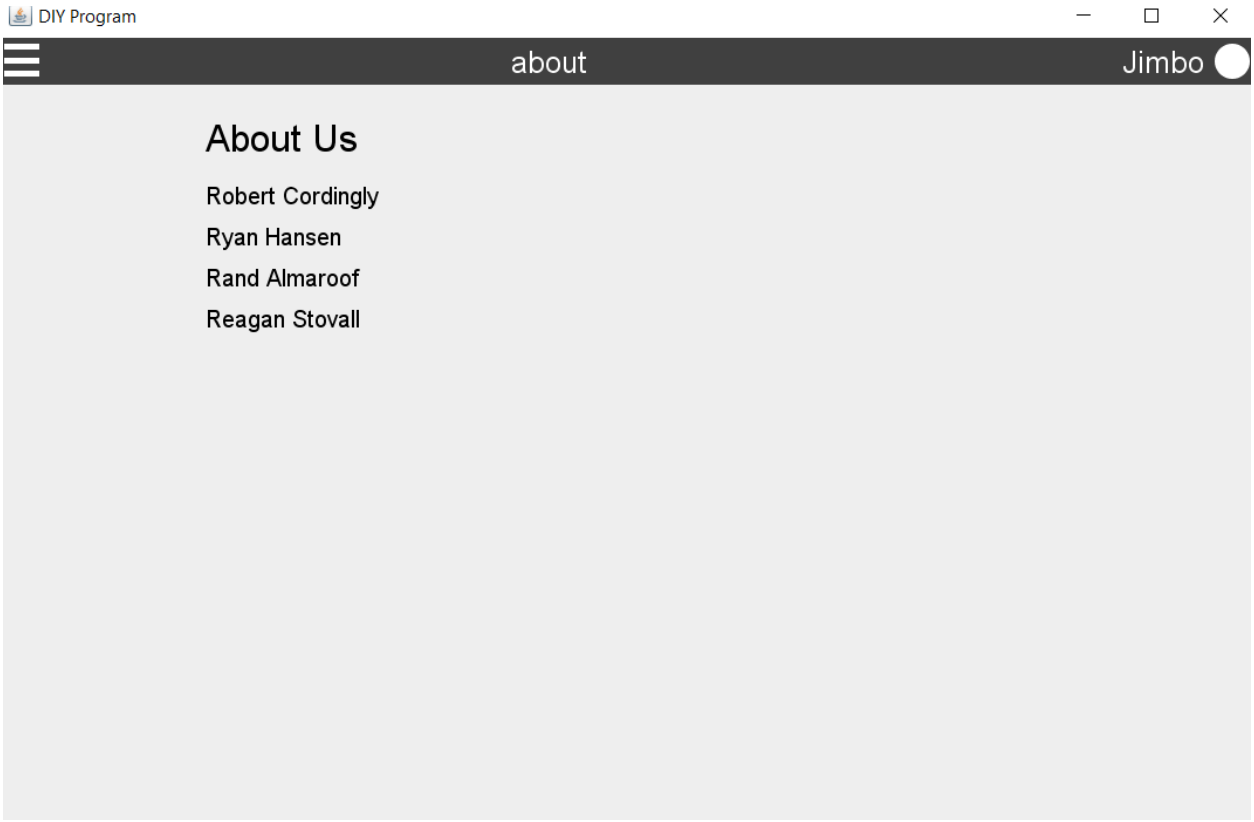
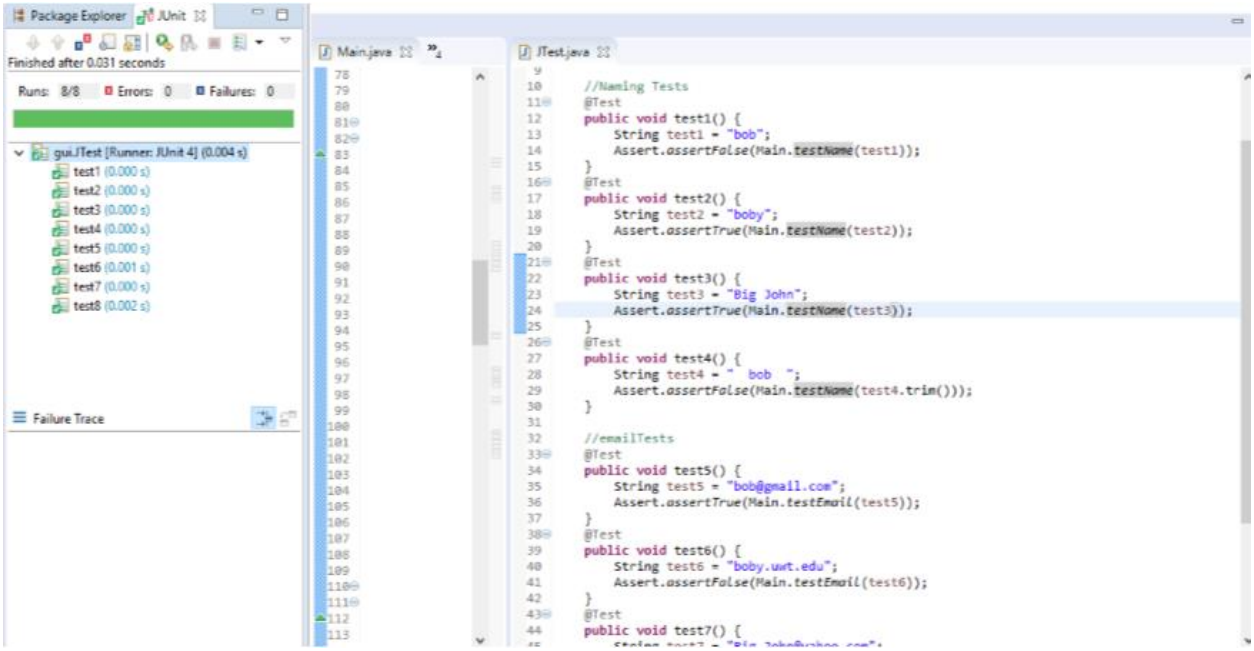
mauris. Nam sagittis eu sapien non accumsa

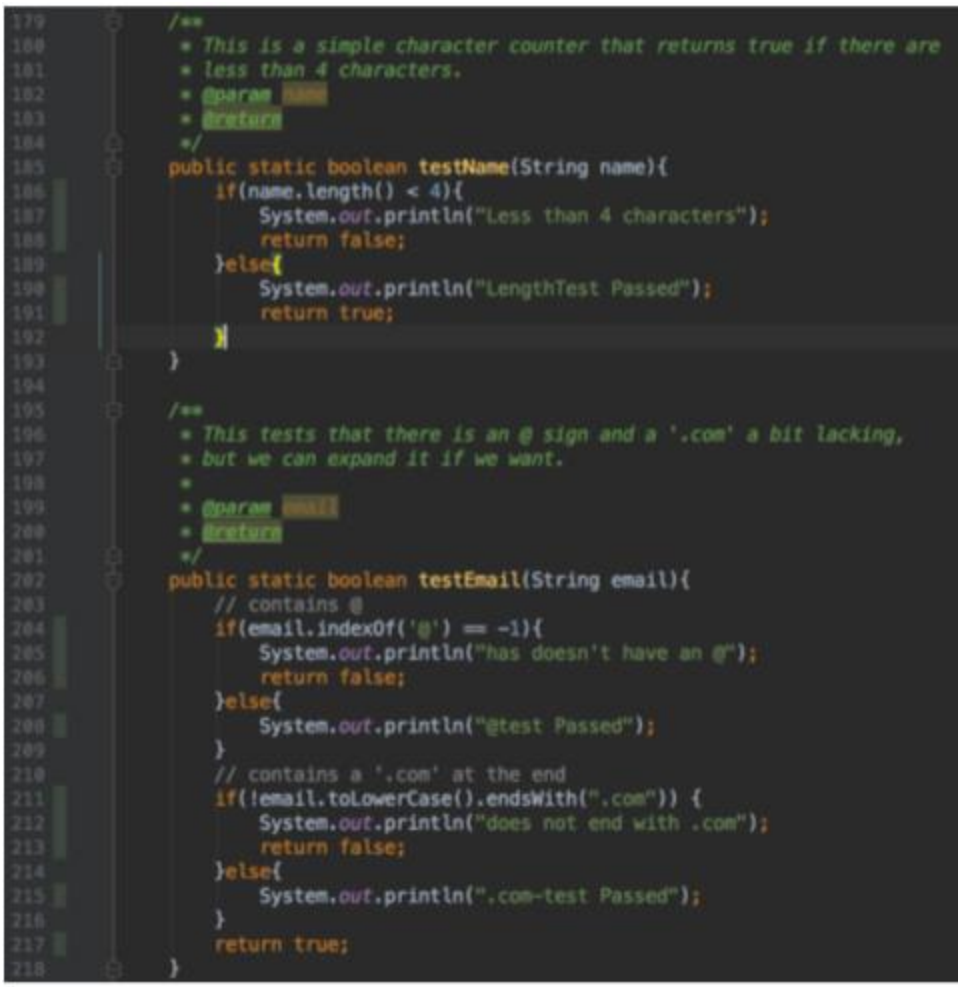

DIY Program
home
Jimbo
Page 1
Page 2
Log Out
et, consectetur adipiscing elit. Donec quis
ongue lectus. Nullam suscipit vulputate
illa lacinia. Aenean in ornare magna,
cula, tincidunt leo at, convallis tellus. Nam
mi tincidunt ligula, quis ornare mauris nunc
id viverra risus convallis a. Praesent et mi
cumsan.



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.





```java
    /**
     * This is a simple character counter that returns true if there are
     * less than 4 characters.
     * @param name
     * @return
     */
    public static boolean testName(String name){
        if(name.length() < 4){
            System.out.println("Less than 4 characters");
            return false;
        }else{
            System.out.println("LengthTest Passed");
            return true;
        }
    }

    /**
     * This tests that there is an @ sign and a '.com' a bit lacking,
     * but we can expand it if we want.
     *
     * @param email
     * @return
     */
    public static boolean testEmail(String email){
        // contains @
        if(email.indexOf('@') == -1){
            System.out.println("has doesn't have an @");
            return false;
        }else{
            System.out.println("@test Passed");
        }
        // contains a '.com' at the end
        if(!email.toLowerCase().endsWith(".com")) {
            System.out.println("does not end with .com");
            return false;
        }else{
            System.out.println(".com-test Passed");
        }
        return true;
    }
```