

F.I.T. Buddy

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Vision Statement

F.I.T. Buddy is a fitness app which is designed to generate workouts catered to your goals and availability / preferences. On sign up/account creation you will answer certain questions to build your profile and fitness plan. F.I.T. Buddy will create custom workouts for each week based on these questions and plan around you and your body type to help get you into shape. On top of this F.I.T. Buddy will have a portion for your diet as well as that is more important to your fitness journey than even the working out part. F.I.T. buddy however will NOT create full length diets for the user just give a general idea of calories that need to be eaten in a day, with consideration of their workout and physical information, as well as give ideas of different foods the user should be eating to fulfill their macronutrients and caloric requirements. F.I.T. Buddy will also have a BMI calculator, max lift estimator, and workout options for those who don't have a gym membership or the ability to go to one. Along with the workouts there will be pictures to help describe the motions which one needs to do to properly do the workout and there will be pictures of the food examples as previously stated. The main screen will display nutritional information(macronutrients you should eat and total calories you should eat with a drop down menu under each macronutrient for good examples of foods to fulfill those) and calories burned based on your stylized workout. The next "tab" is the workout tab which displays your daily workout and the ability to generate another one if you don't like that one/want to hit a different muscle group as well as drop downs for each exercise which displays the proper way to do the workout. Types of questions for profile building: weight, height, amount of time per day to workout, amount of times per week you can workout, goal weight, history of lifting, and maxes(if history of lifting is high enough).

Requirements

A discussion of what your application is required to have in functionality. It should identify user roles and goals/actions, and what the key features of the app should be.

| Actor | Goal |
|-------|---|
| User | Create an account |
| User | View fitness page(generate workouts) |
| User | View main page(see macronutrient info, calorie count, calories burned, and BMI) |
| User | Edit details of account |
| User | Reset information |
| Me | Edit accounts(remove, reset, add) |
| Me | Create main page |
| Me | Create login page |
| Me | Create signup page |
| Me | Create fitness page |
| Me | Create extra info page |
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Product Backlog

This will be updated throughout the semester as new PBIs are added, larger items are broken into smaller ones, and completed items removed.

| Story ID | Story | Story Points (in est. hours) | Priorit y | Status |
|----------|---|------------------------------------|--------------|----------|
| 1.1 | Be able to login with correct credentials, warn user on bad input, reset password button | 3 | 1 | scrapped |
| 1.2 | Reset password button and Popup on bad user info input | 2 | 1.5 | scrapped |
| 2.1 | Create an account and establish the email/username & password into DB | 3 | 2 | scrapped |
| 2.2 | Input user info (height, weight, goals, access to gym, amount of time to go to gym, etc) | 4 | 2.5 | done |
| 3.1 | Be able to edit your user info (change pass, change physical info / goals) | 4 | 3 | todo |
| 4.1 | Displays the macronutrients information as well as calories burned from your workout and calories you should eat and BMI | 10 | 4 | todo |
| 5.1 | Displays your workout for the day with the option to cycle through to a different style of workout as well as show max lift info and ideal weights for specific lifts | 10 | 5 | todo |
| 6.1 | Bug report, email contact for more info, and version details | 3 | 6 | todo |

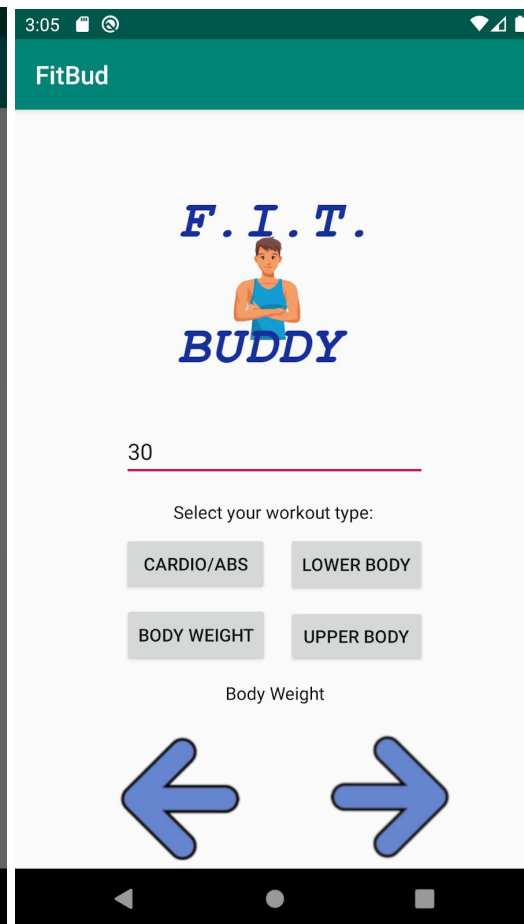
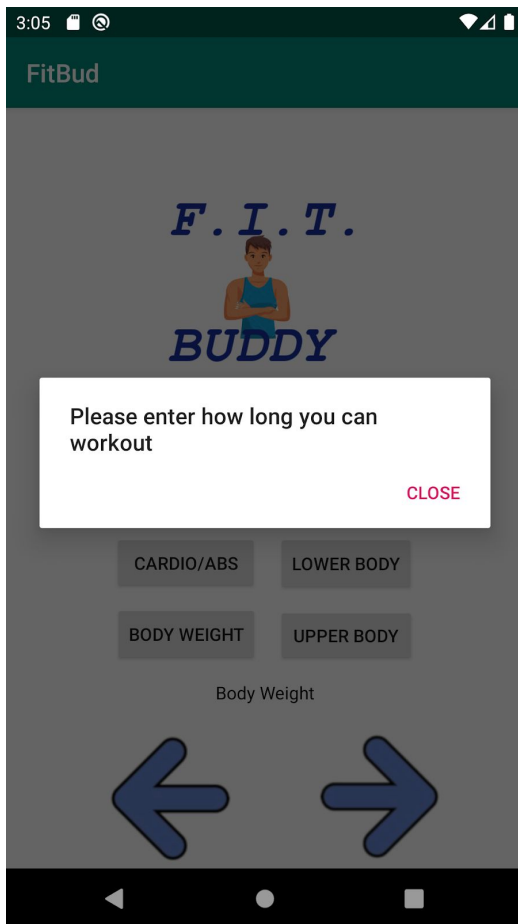
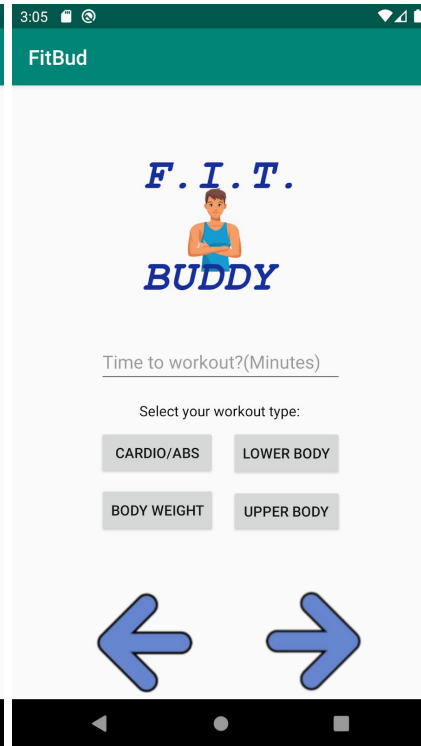
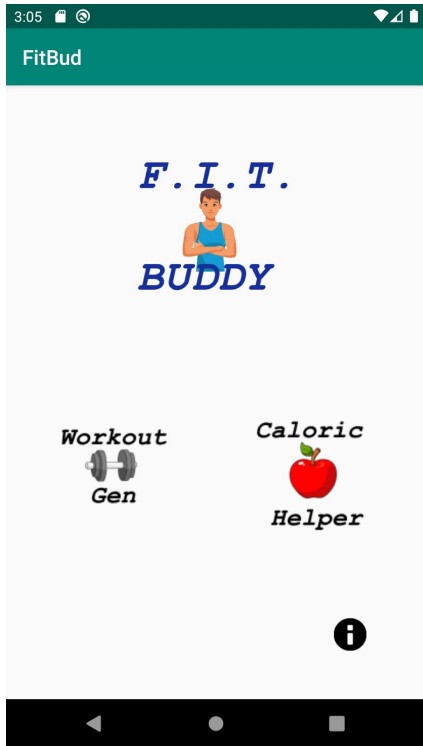
Sprint #1

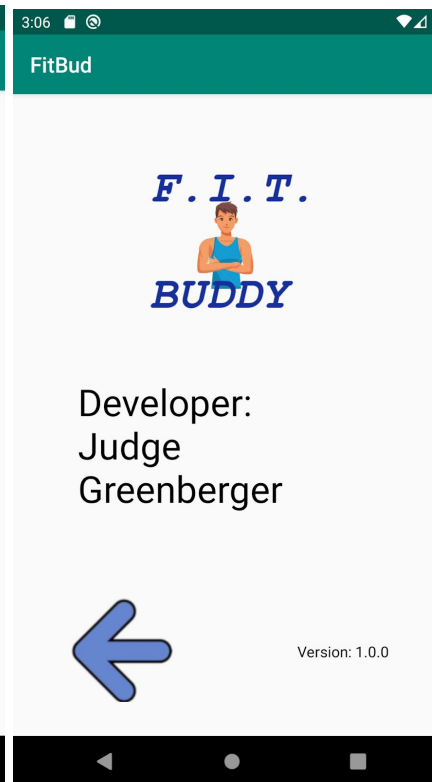
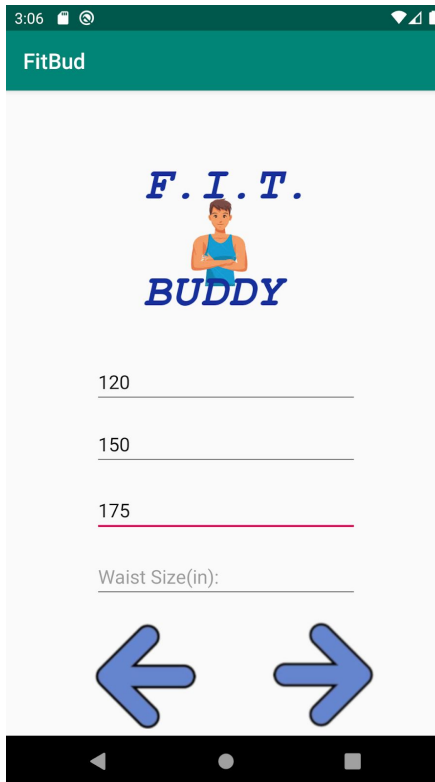
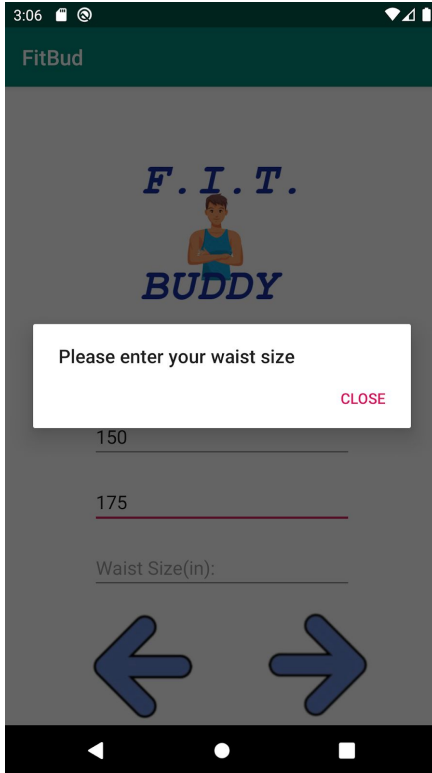
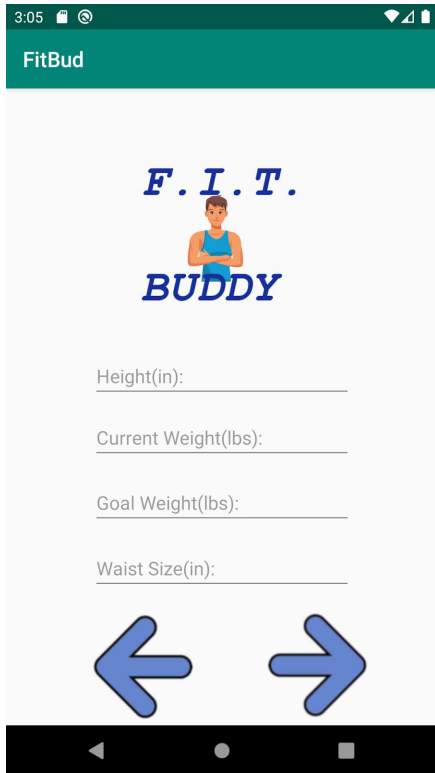
Sprint Backlog

| Story ID | Story / Task | Estimated Hours | Actual Hours |
|----------|--|-----------------|--------------|
| 1.1 | Log on screen | 2 | 2 |
| 2.1 | Input user info (height, weight, goals, access to gym, amount of time to go to gym, etc) | 4 | 6 |
| 3.1 | Edit button on main page to lead to user info page | 1 | 2 |
| 2.2 | Different info page based on login selection choice | 2 | 3 |

Review

[Screenshots, etc go here. This is where you discuss the product, describing what was done this sprint (potentially shippable product increment) and what was planned for the sprint but was not done.]





Retrospective

[This is where you discuss the process. What went well (and are you planning to do more of that?) What didn't go so well (and do you have a way to do less of that)? What changes are you planning to make in how you plan & carry out the next sprint?]

I decided to scrap the idea of having a login page and user account creation as for the scope of the project it really wasn't needed and turned out to be more of a hassle than what it was worth. With that said I made a user decision homepage with the info button, caloric helper button, and a fitness helper button. Each one leads to its specific function in which the user inputs his/her information that I need to be able to generate a calorie goal for the day as well as macros and generate a specific workout for the user. I plan on continuing down this path and making the calorie display page first as I think that will be the harder of the two so it will be good getting it out of the way.

Sprint #2

Sprint Backlog

| Story ID | Story / Task | Estimated Hours | Actual Hours |
|----------|-------------------------------|-----------------|--------------|
| 3.1 | Edit personal info | 3 | 3 |
| 4.1 | Macronutrient display | 6 | 5 |
| 4.2 | Display food types for goal | 4 | pushed back |
| 4.3 | Display calorie totals on day | 5 | 8 |
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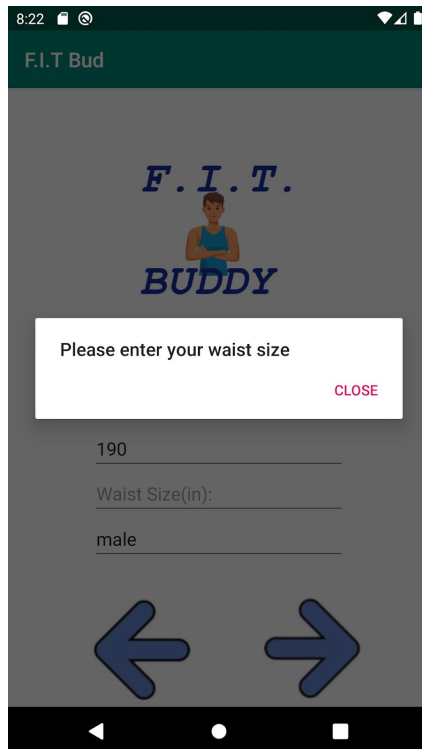
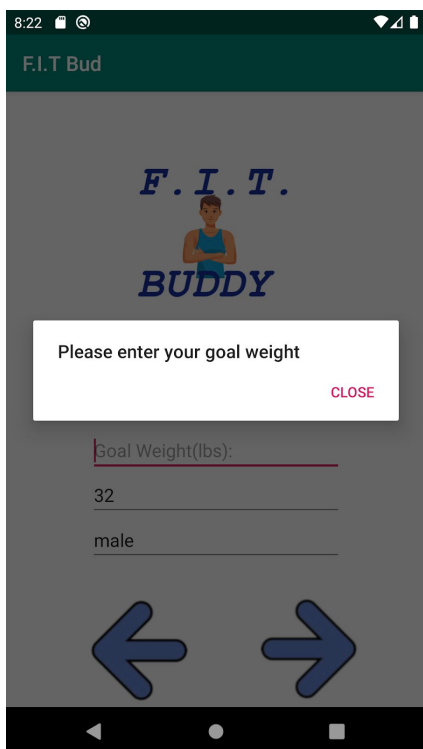
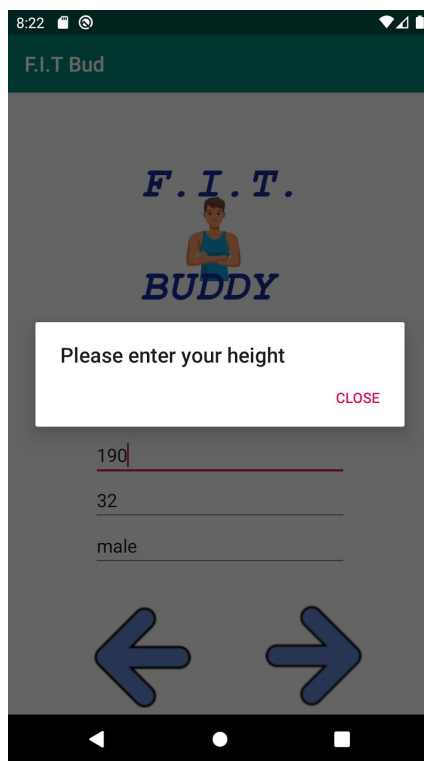
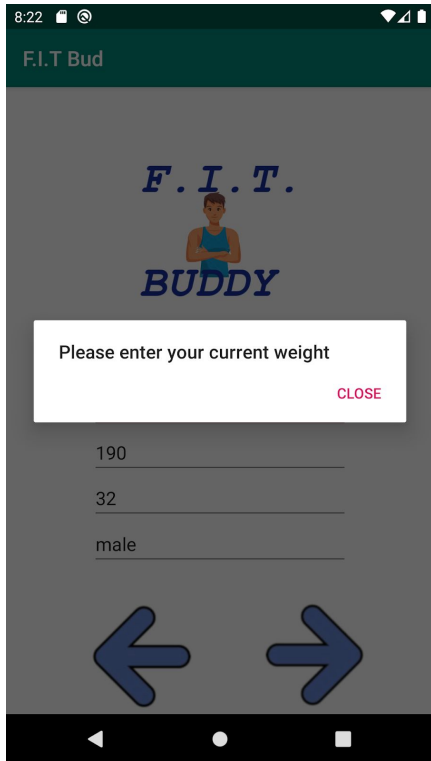
Review

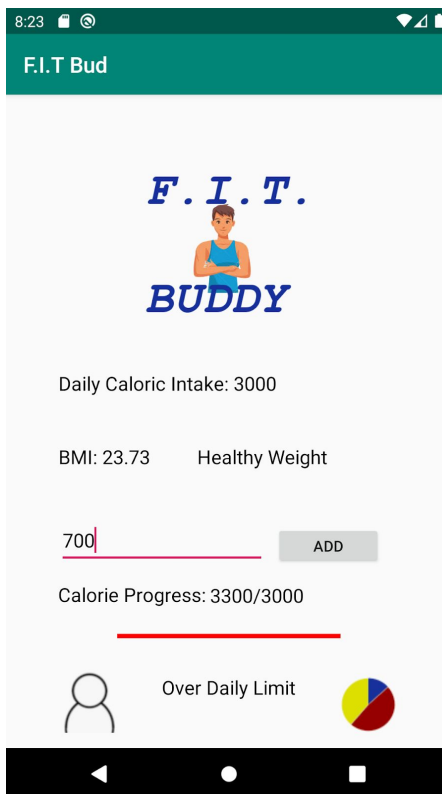
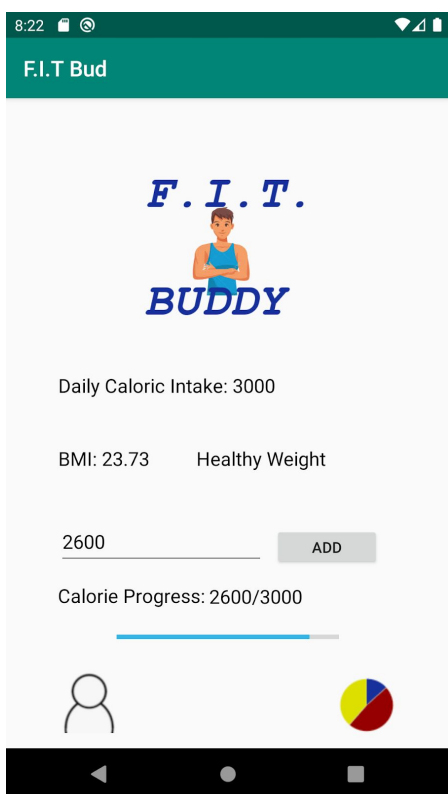
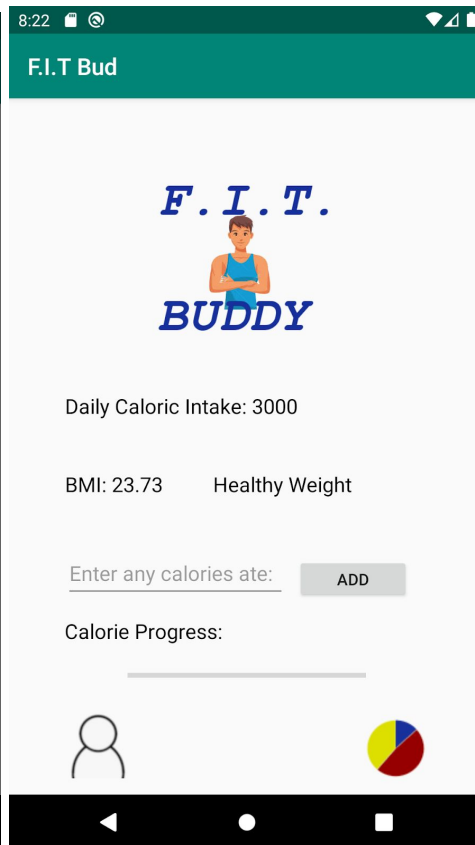
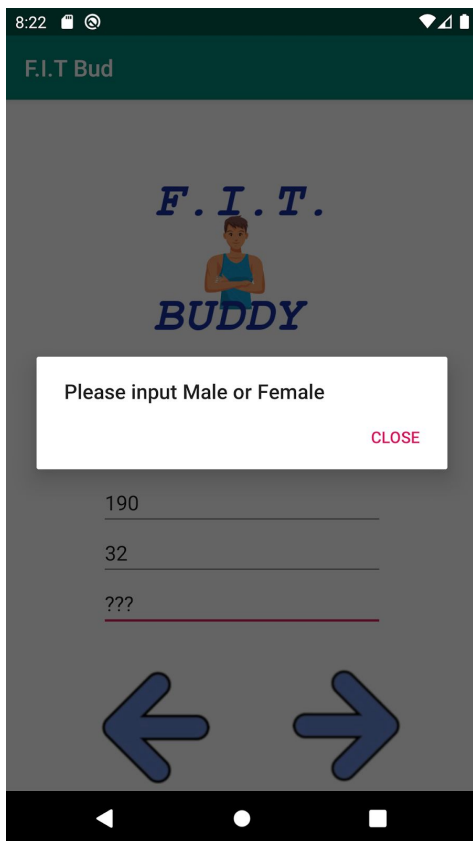
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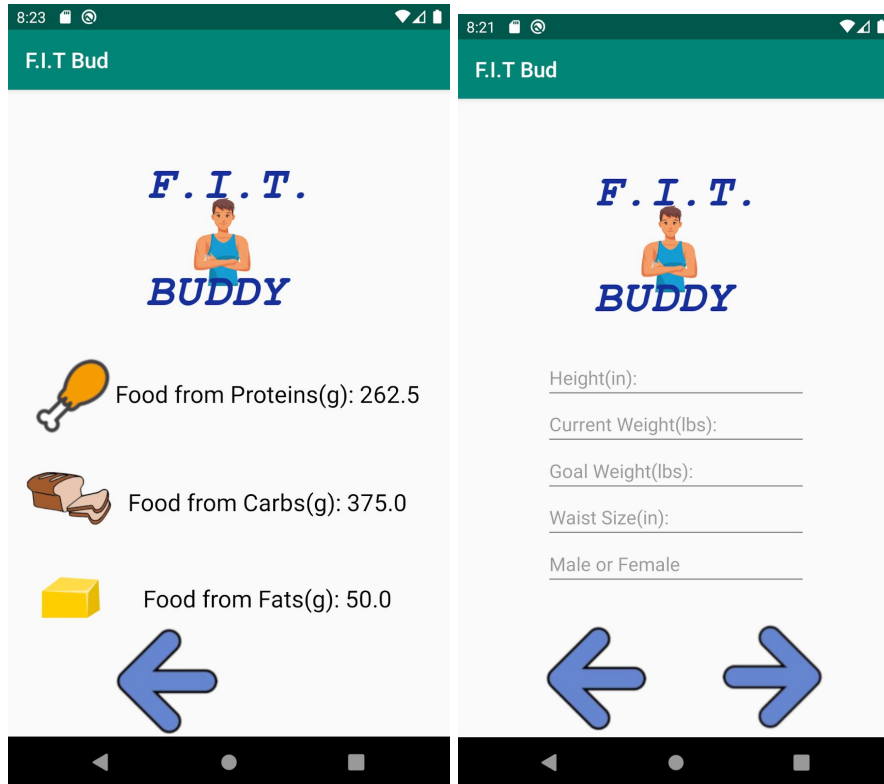
Retrospective

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One problem faced while developing my app was the problem of trying to pass user data to different activities, I solved this using the parcelable option that android studio offers to pass my userData class to whatever activity I launched whenever I launched it. Another thing I didn't take into account was the sheer amount of time it would take me to create the pictures/logos for my application. This took a lot more of my time than I had originally thought causing me to have to push back the display of food types for each macronutrient label. I had to do this because that part will require the most amount of photoshop to create the images of the foods like I want to do. For the next iteration I plan on finishing out the calorie helper section by showcasing the foods and potentially having a "user info" page to display all the info on the current user. One other change I want to implement is being able to save the state of the current calories ate page.







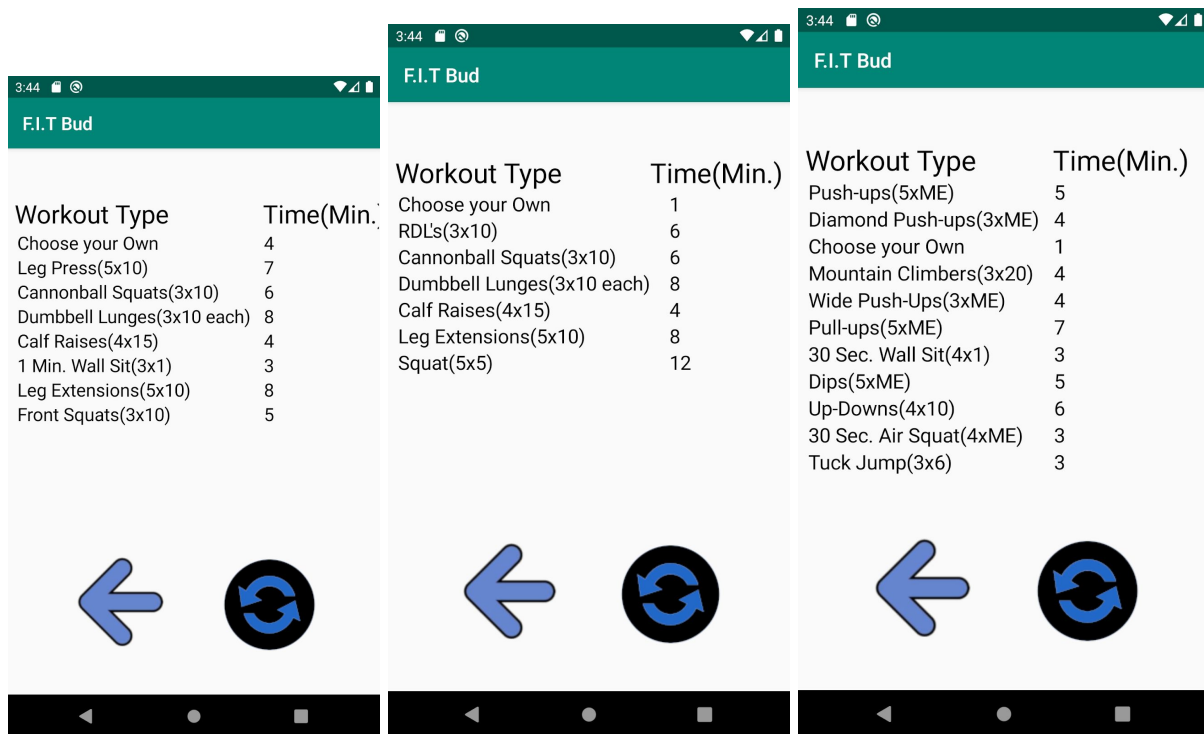
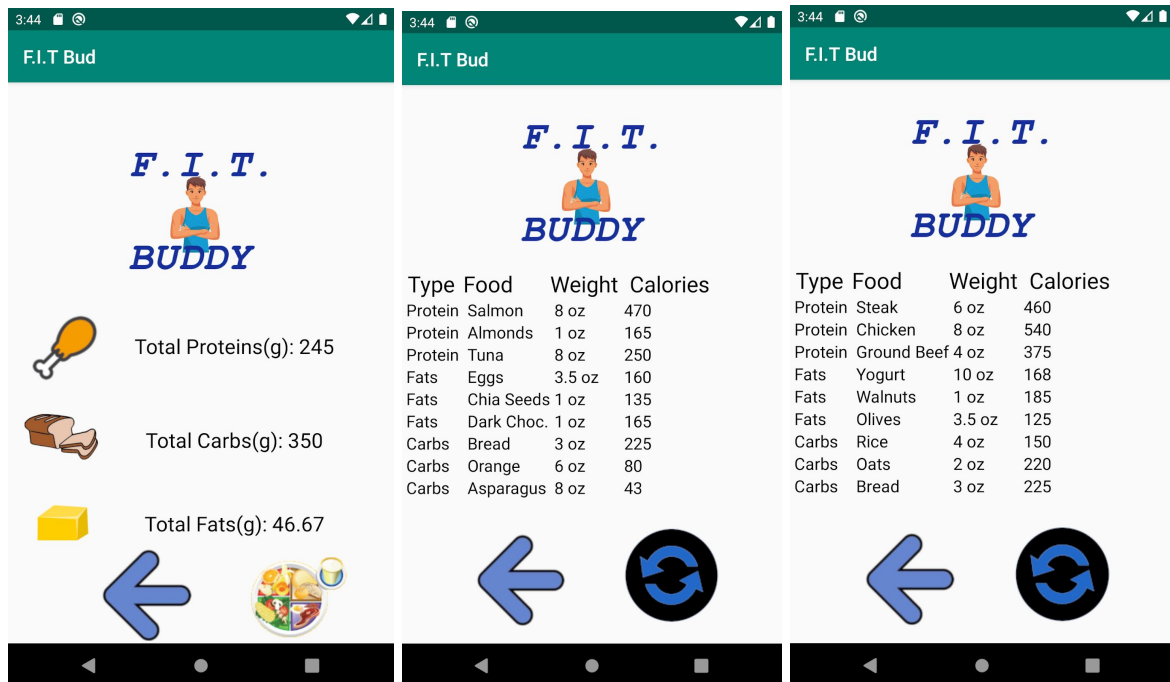
Sprint #3

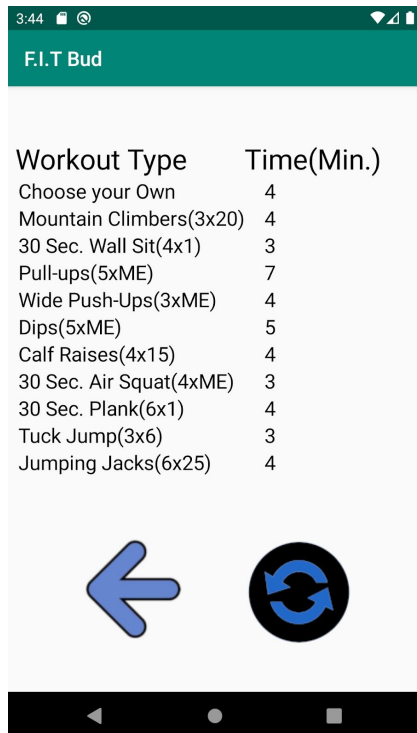
Sprint Backlog

| Story ID | Story / Task | Estimated Hours | Actual Hours |
|----------|---------------------------------|-----------------|--------------|
| 4.2 | Display food types for goal | 10 | 11 |
| 4.4 | Edit user info page | 6 | pushed back |
| 4.5 | Save state calorie counter page | 4 | 4 |
| 4.6 | Display workout information | 8 | 9 |

Review

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Retrospective

[This is where you discuss the process. What went well (and are you planning to do more of that?) What didn't go so well (and do you have a way to do less of that)? What changes are you planning to make in how you plan & carry out the next sprint?]

Overall the coding process went well, I was able to use some concepts I've been picking up from other classes, like Intro to AI ;), to randomly generate workouts based off of how much time you have to workout as well as what type of workout you've chosen. I also randomly generated 3 examples of food for the 3 main macronutrients to display the user with the ability to refresh/randomize both the foods and the workout you're generated. Oddly enough the largest hurdle for accomplishing these goals was the amount of research I had to do on workouts, how long they'd take and soon how many calories they'll burn (next iteration hopefully). On top of this researching how many calories were in what foods as well as what foods were "healthy" examples of those macronutrients took time to figure out. Also in this iteration I fixed the macronutrients display so that it wouldn't have never ending decimals using decimal format, I also found this error while testing my food examples page. Next sprint I plan on redesigning where the user inputs their info so I can push that parcelable extra to every other new activity in order to calculate how many calories you burned to update how much you should eat in that day on the calorie tracker page which is why I have to delay the editing of user info once again.

Sprint #4

Sprint Backlog

| Story ID | Story / Task | Estimated Hours | Actual Hours |
|----------|---------------------------|-----------------|--------------|
| 5.1 | Count calories burned | 10 | |
| 5.2 | Edit User info | 6 | |
| 5.3 | Pictures of workouts | 10 | |
| 5.4 | Pictures of food examples | 12 | |

Review

[Screenshots, etc go here. This is where you discuss the product, describing what was done this sprint (potentially shippable product increment) and what was planned for the sprint but was not done.]

Retrospective

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Sprint #5

Sprint Backlog

| Story ID | Story / Task | Estimated Hours | Actual Hours |
|----------|--------------|-----------------|--------------|
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Review

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Retrospective

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Sprint #6

Sprint Backlog

| Story ID | Story / Task | Estimated Hours | Actual Hours |
|----------|--------------|-----------------|--------------|
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Review

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Retrospective

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