Developer Tasks

Reflection

This iteration many tasks seemed to popup during the iteration. One reason is that in our retrospective we noticed that we tended to group multiple issues into one PR which made them large and hard to review. This means if we come across an issue we weren't expecting, we added a new developer task rather than simply lumping it into one of the already planned tasks. Furthermore, while writing scripts of acceptance tests to use as a guideline we realized many tricky situations were not handled properly in the front end even though the backend and business layer supported these situations. This lead to the creation of many small tickets to cover a broader range of use cases, particularly the tricky ones. Our velocity for this iteration was much lower than last iteration. Much of the work this iteration was left to the last few days of the iteration limiting how many tickets we could complete. We tried to compensate for this by planning less hours than the previous iterations velocity. However even with this undershooting we still were not able to complete as many hours as we would have liked to. This occurred as everyone's schedule became very busy due to having many assignments and finals due in all courses that were being taken.

Total Estimated Time:

Previous iteration velocity: 95 estimated hours

Current iteration planned velocity: 81 estimated hours

Current iteration actual velocity (added tasks included removed tasks excluded): 64 estimated hours

Developer Tasks Planned

High Priority (40hr)

5Hr: Create a view analytics activity

3Hr Allow Updating of Meals

3Hr: Acceptance Test Recommendations

3Hr: Acceptance Test Custom Food Categories

3Hr: Acceptance Test Custom Goals

3Hr: Acceptance Test View Stats and Analytics

3Hr: Acceptance Test Track Exercise

3Hr: Acceptance Test Add Common Meals

3Hr: Acceptance Test Log Food Eaten

3Hr: Acceptance Test Save User Info

3Hr: Allows default values for a new day

2Hr: add Nav Bar to every page

2Hr: Integration Testing

1Hr: Fix Error Where Proper Quantity of Food is not Added To The Day

Medium Priority (12hr)

4Hr: Show a summary of goals achieved and food information of a span of days

3Hr: Allow removal of exercise from a day

2Hr: Create Label Activity

2Hr: Set the micros when creating a new food

1Hr: Allow users to see what a labels a edible contains

Low Priority (10hr)

2Hr: Updating labels updates associated label goals

2Hr: Allow different quantities of edibles to be added when creating a new meal

1Hr: Allow Removal of Edibles from Db

1Hr: Create iterator for lists in days

1Hr: Allow users to add labels to meals they create

1Hr: Allow users to see details of a edible they have logged

1Hr: Allow Users to log out

1Hr: Refactor access accounts to clarify function intents

Removed Developer Tasks (19hr)

3Hr: Acceptance Test Friend Progress

3Hr: Allow updating and removing number of edibles from a meal time in a day

2Hr: update Goals in ui

3Hr: allow users to set their dashboards as private

1Hr: allow users to view their friend stats dashboard

3Hr: create ui to interact with the friends list (view/add/remove)

1Hr Create a friends list in an account and create functions to interact with the list

3Hr Show a notification at the start of a new tracked day with the previous goals not met

Total Planned Hours: 81

Added Developer Tasks

Medium Priority (2hr)

1Hr: Fix Timeline Calculations

1Hr: Show macros when viewing details of an edible

Low Priority (10hr)

1Hr: Prevent Users from Entering Invalid States In Label Activity (Hotfix)

1Hr: Fix Error Squelching

1Hr: Prevent Users from Entering Invalid States In Label Activity

1Hr: Show error message when creating invalid goals in presentation

1Hr: Show error when trying to add duplicate edible to db in presentation layer

1Hr: Create popup for viewing exercise in a day

1Hr: Add Food button covers Micros

1Hr: update comments for error handling methods.

1Hr: clean up totals ui

1Hr: clean up button ui

Total Added Task Hours: 12hr

User Stories

As a user, I would like to be able to see analytics for the food I've documented. (total calories, macronutrients, etc...)
DS: See a summary of goals achieved and food information over a span of days
DS: See average analytics from a span of days

As a user, I want to be able to receive recommendations based on my preferences or the deficiencies of my current diet.
DS: Allow previous goals to carry over to the next day
DS: Based on goals not met, see deficiencies from the previous day at the start of a new day

Changed Big user stories
As a user with dietary restrictions, I want to ensure the food I eat does not interfere with any of my dietary restrictions. (glycemic impact (diabetes), Kosher, Vegan, Keto, etc...)
CHANGED TO
As a user I want to be able to organize and track food based on customizable categories

As a user, I want to be able to receive (~~FOOD~~) recommendations based on my preferences or the deficiencies of my current diet

Removed User Stories

(Detailed Story - Food Recommendations)
Based on goals not met, see deficiencies from the previous day at the start of a new day

(Big Story)
As a user, I want to be able to see and comment on my friends' progress to keep one another motivated.

(Big Story)
As a dietitian, I would like to be able to share suggested diets or changes to a client's diet.

Meetings

Meeting 1 – August 2, 2020
All Present
-        Went over big user stories:
o Got rid of the Dietitian Suggestion big story.
-        Created Detailed Stories and Developer Tasks for the remainder of our Big User Stories.
Meeting 2 – August 3, 2020
All Present
-        Discussed which retrospective activity we would write about, and how we would improve upon it.
o We noticed that in a few of our dev tasks, we would sometimes include additional developer tasks within that pull request, increasing the amount of changes in a single pull request. This caused some confusion and we should look to stop doing this in the future.
Meeting 3 – August 12, 2020
All Present
-        Check in meeting to ensure everyone is on on track

Developer's Logs

Emmanuel's Log

Added ability to add quantities of edibles when creating a meal
Time Allocated: 2 hours
Time taken: 1 hour
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/180
Completed on August 12th

Allow adding labels to new meals created
Time Allocated: 1 hour
Time taken: 2 hours
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/184
Completed on August 12th

Move error handling in front end to separate methods
Time Allocated: 1 hour
Time taken: 1 hour
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/201
Completed August 12th

Acceptance Test Save User Info
Time Allocated: 3 hours
Time Taken: 4 hours
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/167
Completed on August 13th

Acceptance Test Recommendations
Time Allocated: 3 hours
Time taken: 2 hours
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/174
Completed on August 13th

Task: Acceptance Test Add Common Meals
Time Allocated: 3 hours
Time Took: 2 hours
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/173
Completed on August 13th

Task: General Refactoring/Updating Comments
Time Allocated: 3 hours
Time Took: 2 hours
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/212
Completed on August 13th

Task: Fix issues in acceptance tests
Time Allocated: 1 hour
Time Took: <1 hour
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/240
Completed on August 13th

<u>**Caden's Log**</u>
Task: Add Nav Bar to Every Page
Time Allocated: 3 hours
Time Took: 4 hours
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/149
Completed on August 13th

Task: Fix Buttons UI
Time Allocated: 2 hours
Time Took: 2 hours
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/146
Completed on August 13th

Task: Fix Totals UI
Time Allocated: 1 hour
Time Took: 1 hour
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/146
Completed on August 13th

Task: Add ability to remove exercises
Time Allocated: 2 hours
Time Took: 2 hours
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/154
Completed on August 13th

Task: Acceptance Test for Logging Exercise
Time Allocated: 3 hours
Time Took: 3 hours
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/170
Completed on August 13th

Task: Acceptance Test for Custom Goals
Time Allocated: 3 hours
Time Took: 3 hours
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/172
Completed on August 13th

Task: Plan and record project presentation
In progress

Amin's Log

Task: Acceptance Test Written Scripts Guidelines
Time Allocated: 1 hours
Time Took: 1 hours
Completed on August 13th

Task: Start Acceptance Tests
Time Allocated: 5 hours
Time took: 5 hours
Completed on August 13th

Arvind's Log

Task: Create View Activity
Time Allocated: 5 hours
Time Took: 5 hours
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/86
Completed on August 12th

Task: Add Micros to Food
Time Allocated: 2 hours
Time Took: 1 hour
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/157
Completed on August 12th

Task: Allow users to interact with mealtimes in timeline
Time Allocated: 4 hours
Time Took: 6 hour:
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/225
Completed on August 12th

Task: Allow users to interact with exercise in timeline
Time Allocated: 2 hours
Time Took: 2 hours
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/218
Completed on August 13th

Task: resolved Add food button covers micros [HOTFIX]
Time Allocated: 2 hours
Time Took: 1 hour
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/215
Completed on August 13th

Task: resolved Add labels to food view components
Time Allocated: 2 hours
Time Took: 1 hour
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/176
Completed on August 13th

Task: Add macro to food components
Time Allocated: 2 hours
Time Took: 1 hour
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/225
Completed on August 13th

Task: Add users to see details of an edible they have logged
Time Allocated: 3 hours
Time Took: 2 hours
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/200
Completed on August 13th

Task: Access Tests -> View Stats
Time Allocated: 3 hours
Time Took: 4 hours
Completed on August 13th
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/171

Task: Access Tests -> Log Food
Pair programmed with Amin
Time Allocated: 3 hours
Time Took: 3 hours
Completed on August 13th
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/168

Task: Fix issues in acceptance tests
Time Allocated: 1 hours
Time Took: 1 hour
Completed on August 13th
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/240

Task: Iteration 3 Documentation
Time Allocated: 1 hours
Time Took: 1 hour
Completed on August 13th
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/241

Mark's Log

Task: implement iterators to days
Completed July 31
Time Assigned: 1 Hour
Time took: 1 hour
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/139
Notes: Days now return an iterator over it's lists rather than returning the whole list.

Task: Fixing database label propagation issues
Completed August 1
Time Assigned: 2 Hour
Time took: 3 hours,
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/140
Notes: Modifying/deleting labels now affects corresponding label goals.

Task: Retrospective Write Up
Completed: August 2
Time took: 2 hours
Linked Issue:
Notes:

Task: Integration Testing
Completed: August 2, August 7
Time Assigned: 2 Hour
Time took: 2 hours, 1 hour (hotfix)
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/159
Notes: (Aug 2) Completed Initial pass of integration tests. (Aug 7) Went back and added handling errors as expected.

Task: Allow users to set default values for a new day
Completed August 3
Time Assigned: 3 Hour

Time took: 3.5 hours
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/142
Notes: User's can now click save as default for a day. This will be the new default when a user goes to a new day. A user can reset the default to an empty day by clicking the reset default button. It is implemented by having each account have a day they have tracked with a special id. This id is 0 so no day of the year will replace it. This allowed us to reuse the already existing infrastructure in the persistence and business layer to easily implement this. We save this day to the account as day 0 and any time we go to a new day we just copy the day values over.

Task: Refactor Data Access Interface
Completed August 3
Time Assigned: 2 Hour

Time took: 3 hours
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/164
Notes: Refactored the persistence layer function names and business layer method names. Access account has two aspects to it: user info and days that are tracked. To modify days has the expected methods such as updateDay or addDay. However for user info we had misleading names such as updateAccount which really only updated the user info. Furthermore many of these methods took an account parameter when all was used was the user info in account. Now they only take the user info as a parameter if we only use the data of user info in the account. These changes then were modified when they were called so all tests passed. This took longer than expected as there were lots of places that called this code that needed to be updated.

Task: Refactor Showing Front End Errors For Duplicate Foods
Completed: August 9
Time Assigned: 1 Hour
Time took: 0.5 hours
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/181
Notes:

Task: Show Errors When Users Make Invalid Goals
Completed: August 9
Time Assigned: 1 Hour
Time took: 2 hours
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/183
Notes: Show errors on front end when user inputs invalid data for making goals

Task: Fix Error Where Proper Quantity of Food is not Added To The Day
Completed: August 9
Time Assigned: 1 Hour
Time took: 2 hours
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/192
Notes: Turned out to be a backend issue. When we update the day we always set all the food in the day to have 1 quantity in the database. Short Pr but took a long time to track down the bug

Task: Signing Up with a Already Taken Username Shows an Error
Completed: August 9
Time Assigned: 1 Hour
Time took: 0.5 hours
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/178
Notes:

Task: Add a Logout Button
Completed: August 9
Time Assigned: 1 Hour
Time took: 0.5 hours
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/177
Notes:

Task: Create Label Activity
Completed: August 10
Time Assigned: 2 Hour
Time took: 2.5 hours
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/195
Notes: This shows all the labels in the app. You can add/remove/update any label you choose.

Task: Fix Error Squelching
Completed: August 11
Time Assigned: 1 Hour
Time took: 1.5 Hour
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/198
Notes: Especially in access classes often if we try to add a duplicate we simply return from the function and not add it. Also if we tried to remove an item that didn't exist we would get an error. This is somewhat backwards as removing an item that doesn't exist is not a problem as remove is idempotent but adding a duplicate definitely is not so in that case we now throw an error. Also adjusted ui to also handle this accordingly.

Task: Allow User to Remove Edibles
Completed: August 12
Time Assigned: 1 Hour
Time took: 1.5 hours
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/182
Notes: Can now remove edibles or meals from the data base in the app on the user interface side

Task: Allow Users to Enter Quantity of Food when Creating a Meal
Completed: August 12
Time Assigned: 2 Hour
Time took: 2 hours
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/180
Notes: Mark (Navigator) Pair Programed with Emmanuel (Driver)

Task: Prevent Users from Entering Invalid States In Label Activity (Hotfix)
Completed: August 12
Time Assigned: 1 Hour
Time took: 1 hours
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/202
Notes: Buttons get disabled when they don't make sense to click

Task: Fix Timeline Calculations.
Completed: August 12
Time Assigned: 1 Hour
Time took: 1 hours
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/211
Notes: Refactored Calculator business class and fixed an error in the calculator where it didn't

account for the quantity of a edible properly because we were calling a depreciated method from previous iteration before edibles were turned into composite objects.

Task: Update Meal
Completed: August 12
Time Assigned: 3 Hour
Time took: 4 hours
Linked Issue: https://github.com/COMP3350-Group5/meal-buddy/issues/158
Notes: Users can now update a meal already in the database. Also completed a few related refactoring's.

Retrospective

Our goal this iteration was to limit each pull request to one issue. This to help keep the pull requests small and easy to review. Also it ensures faster and more continuous integration which reduces merge conflicts and limits the problems of big bang merges. Proof of achievement can be seen in our dev logs as each task is linked to a gitHub issue which is linked to exactly one pull request. This has resulted in our group having more requests each of which are smaller.