MealTime

Team 10 - Sprint 1 Planning Document

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Sprint Overview

In this sprint, members of our team will first act on setting up our development environments, making sure that all necessary components, frontend (ReactJS), backend (Ruby on Rails) and database (Heroku PostgresQL) are working and configurable. We will then spend time setting up our database and running the various migrations to make it suited for our project. From there, we will create the basic views, models, and controllers that we will need not just for this sprint, but for all the future sprints as well. We will set up the login and signup pages and connect them to our backend so that we are able to create new users and subsequently log in with them. We will then create and set up the introductory pages, which get information from the user after they create an account for MealTime. We will also register keys and do set up for the various APIs that we need, such as the USDA database connection and the Yelp API. From here, we will allow users to log their daily caloric intake using both individual ingredients as well as meals from restaurants. We will allow users to log their weekly and monthly budgets, and price out each ingredient and meal that they create. We will also allow users to create recipes and meal plans using ingredients and instructions, as well as to add the option of sharing them with other users or keeping them private.

SCRUM Master: Evan Klein
Meeting Plan: Mondays 6:00PM, Wednesdays 2:00PM

Risks and Challenges
The biggest challenge we most likely have to face will be setting up and maintaining our database. We will use a shared Heroku Postgres database, and will likely appoint one person to act as the primary database administrator so that we don't have multiple people completing migrations, making the schema confusing for everybody involved. Another challenge we are likely to face is secure authentication for user information, which will likely need to be completed in a way that doesn't just involve storing plaintext passwords in Heroku. A final challenge we are likely to face will be connecting all the individual components built during this sprint and making sure that we manage to get everything working in a consistent manner for everyone on the team.

User Story 1

As a user, I would like to be able to create an account.

Associated Tasks

Task Number	Description	Time	Owner
1.1	Create user, budget, and allergen tables	2	Sam
1.2	Create user model and controller on backend	2	Patrick
1.3	Create register page	2	Patrick
1.4	Tie components together, put info into database and allow for successful registration	3	Patrick

Acceptance Criteria

1. Ability to create a new account with a username, email, and password.

2. Delivers a 'failed' message of some type if the username or email in question is already in the database.

3. User, budget, and allergen tables exist in the Heroku DB with the proper fields (refer to class diagram from design document).

User Story 2

As a user, I would like to login to my account.

Associated Tasks

Task Number	Description	Time	Owner
2.1	Create login page	2	Patrick
2.2	Allow users to switch between login/register page	1	Patrick
2.3	Validate user's account and successfully log them in	3	Patrick
2.4	Deliver error or failure message if user is not properly invalidated	2	Patrick
2.5	Testing	1	Patrick
2.6	Mobile Compatibility	1	Nick

Acceptance Criteria

1. Ability to sign in with that user using the username and password fields.

2. Message is returned if username or password fails, letting the user know that it isn't a valid combo.

3. Password authentication is secure and robust.

User Story 3

As a user, allow me to view a main page that acts as the hub for the rest of the application.

Associated Tasks

Task Number	Description	Time	Owner
3.1	Create welcome page	5	Peter
3.2	Create global header and tabs for all pages	1	Peter
3.3	Create global footer that is on all pages	1	Peter
3.4	Test page for UI bugs	1	Peter
3.5	Mobile compatibility	2	Nick

Acceptance Criteria

1. Ability to maneuver between pages within the app.

2. When requesting to switch to a different page within the app, it completes the request.

3. Elements of pages are properly aligned on the UI.

4. Elements of pages are properly aligned on mobile.

User Story 4

As a new user, I would like an initial screen that walks me through how the app works and allows me to input my initial goals and restrictions.

Associated Tasks

Task Number	Description	Time	Owner
4.1	Create introductory page with details on how app works	1	Evan
4.2	Create UI to allow user to enter in budget/nutrition information	2	Evan
4.3	Store user info in backend/database	2	Evan
4.4	General testing, making sure that no invalid values can be passed	2	Evan
4.5	Mobile compatibility	2	Nick

Acceptance Criteria

1. New user screen only appears after a user has initially been created, not anywhere or anytime else.

2. Make sure that all user information is properly stored in the database.

3. No invalid values are even able to be passed to database, everything is authenticated and validated.

4. Looks good on mobile as well.

User Story 5

As a user, I want the ability to see my progress for the week and month in terms of nutritional and health benefits.

Associated Tasks

Task Number	Description	Time	Owner
5.1	Create page for progress, allow users to select by month/week/day	2	Logan
5.2	Create interactive graphs that show progress for calories	2	Logan
5.3	Create interactive graphs that show progress for individual macros/vitamins/other	2	Logan
5.4	Mobile compatibility	2	Logan
5.5	Testing	2	Logan

Acceptance Criteria

1. Page has acceptable design that is self explanatory.

2. Presents users information to them in an effective and design-friendly way, no weird glitchy bugs (especially on mobile).

3. Provide link to calendar page as well so that user can view their information in a larger scope.

User Story 6

As a user, I want the ability to view my profile and edit certain aspects of it.

Associated Tasks

Task Number	Description	Time	Owner
6.1	Change/edit requirements for nutrition and allergens	2	Peter
6.2	Change/modify requirements for budget	2	Peter
6.3	Add a description and modify aspects like email, username, or change password	3	Patrick
6.4	Upload a picture for the user profile component	2	Patrick
6.5	Mobile compatibility	2	Peter
6.6	General testing	2	Peter

Acceptance Criteria

1. Upload a picture that is saved in the database for that user.

2. Ability to change picture, email, and password, but not username.

3. Password changes must be properly validated and requires that users type in their old password to create a new password.

4. Changes to budget/nutritional requirements are changed in the database and stored across the app.

5. All preferential changes are distributed across the application.

User Story 7

As a user, I want the ability to enter in calories for the day for each meal and see the

total.

Associated Tasks

Task Number	Description	Time	Owner
7.1	Create recipe, restaurant, ingredient, and budget tables in database	4	Sam
7.2	Add sample data to database for testing purposes	3	Sam
7.3	Allow interface for adding meals or recipes to daily count	3	Sam
7.4	Allow user to add different items to different meals (or snacks)	2	Sam
7.5	Allow users to delete items for meals	1	Sam
7.6	Make sure users can add not only individual ingredients, but full recipes	2	Sam
7.7	Testing	1	Sam

Acceptance Criteria

1. Pulls information from various data sources to get nutritional and caloric information.

2. Stores calories for the day in database, along with associated data.

3. Keeps track of daily spending (allow users to enter in cost data manually for now).

4. Allow users to add from various ingredients, recipes, and restaurants.

User Story 8

As a user, I want the ability to view an interactive calendar with my calorie count and the amount of money spent for each day.

Associated Tasks

Task Number	Description	Time	Owner
8.2	Create calendar tab	1	Nick
8.2	Create actual calendar element, allow users to click a particular day to go to that day and show caloric/budget limits for that day	5	Nick
8.3	Switch to page for whatever day a user clicks to show their results from that day	3	Nick
8.4	Mobile styling	2	Nick
8.5	Testing	3	Nick

Acceptance Criteria

1. Calendar is valid and shows caloric/budget information for each day.

2. Users can click on specific days and the UI shows them what their input for that particular day way.

3. Users can't click on days that haven't happened yet.

4. Doesn't look terrible on mobile.

User Story 9

As a person with a strict budget, I would like to find new places that are well within my budget.

Associated Tasks

Task Number	Description	Time	Owner
9.1	Create UI for interface that allows users to search restaurants they might like	4	Evan
9.2	Connect to Yelp API to allow searching of restaurants around the user	4	Evan
9.3	Testing	3	Evan
9.4	Mobile compatibility	2	Evan

Acceptance Criteria

1. Users can view different restaurants, as well as their general rating and description/restaurant.
2. Users can search restaurants near them.
3. Looks good on mobile as well.

User Story 10

As a food enthusiast, I would like to go to new places with high reviews and that are well liked.

Associated Tasks

Task Number	Description	Time	Owner
10.1	In the UI interface for finding restaurants, show reviews for places with high reviews	2	Evan
10.2	Use user's food preferences to recommend restaurants	2	Evan
10.3	Testing	2	Evan

Acceptance Criteria

1. Show restaurants with high reviews.

2. Show restaurants with similar tastes in food to the user, or restaurants similar to restaurants the user has already favorited.

3. Show restaurants close to the user's actual physical location.

User Story 11

As a person who likes to cheat on their diet, I would like to have a cheat day/meal

button/setting that allowed me to go past my calorie budget.

Associated Tasks

Task Number	Description	Time	Owner
11.1	Add 'cheat day' button to main page	1	Logan
11.2	Allow user to set the cheat day parameters	2	Logan
11.3	Save cheat day settings for the day into database	3 (eac h)	Sam/Logan
11.4	Testing	2	Logan

Acceptance Criteria

1. Allow cheat day to either function on cheat day parameters, or no parameters at all.

2. Don't allow cheat day to run more than one day long, and make sure that the next day the original nutritional requirements are still in place.

3. Allow the option to not track the requirements from that day at all, or to still track them but mark the day as a 'cheat day' on the calendar.

User Story 12

As a mobile user, I want MealTime's layout to reflect the desktop environment in an intuitive way.

Associated Tasks

Task Number	Description	Time	Owner
12.1	Go through entire application and make sure mobile design is up to spec	4	Peter
12.2	Test on multiple different platforms (iPhone, iPad, talk to Evan if you need clarification on how to do this)	2	Nick
12.3	Testing, make changes for bootstrapping	2	Peter

Acceptance Criteria

1. Make sure that all interfaces look good on mobile platform.

2. No hidden buttons, tabs, or interfaces that aren't accessible from mobile.

3. Attempt to completely mirror the desktop experience on mobile, except where it would be inconvenient to do so.

User Story 13

*As someone with dietary restrictions, I need to be able to access recipes that will fit within my caloric intake **as well as the restrictions specified.***

Associated Tasks

Task Number	Description	Time	Owner
13.1	Add test data to allergen table	1	Logan
13.2	Filter out recipes that get recommended ot users if they contain certain allergens	3	Logan
13.3	Add warnings to ingredients if they are noted to be allergens/restricted to the user	2	Logan
13.4	Testing	1	Logan

Acceptance Criteria

1. Check that recipes don't exceed caloric limitations.

2. Check that recipes don't include allergens that belong to the user.

3. Don't recommend recipes with those allergens, but put warnings next to recipes that the user has selected that contain allergens.

User Story 14

As a person who likes to know what I'm putting in my body, I would like the ability to track my macros and other nutritional information.

Associated Tasks

Task Number	Description	Time	Owner
14.1	Allow users to enter in macros in the initial entry page	1	Patrick
14.2	Show macros for each added item/recipe in the daily food entry page	3	Patrick
14.3	Show warnings if user is under their daily macro limit	2	Patrick
14.4	Allow option in profile to disable macros	1	Patrick
14.5	Testing	1	Patrick

Acceptance Criteria

1. Allow users to select whether or not they even want to track macros.

2. Allow users to store macro information daily, just like calories.

3. Visible warnings if users don't meet or exceed their goals for the day.

4. Ability to modify macro requirements from profile page.

User Story 15

As someone with very specific tastes, I would like if the application could avoid recommending food or restaurants that I'm not fond of.

Associated Tasks

Task Number	Description	Time	Owner
15.1	Allow users to 'dislike' specific ingredients or recipes, and mark them so	3	Sam
15.2	Connect with Yelp API to mark certain restaurants as 'not applicable' so they don't show to users as recommended	3	Sam
15.3	Testing	2	Sam

Acceptance Criteria

1. No longer show restaurants that the user marks that they dislike.

2. Don't show restaurants that have poor reviews or that have a specific food type the user isn't fond of.

3. Make sure that restaurant results are consistent and that unfavorable restaurants don't come back more than once.

User Story 16

As a user, I want the ability to create recipes and meals using custom ingredients and instructions.

Associated Tasks

Task Number	Description	Time	Owner
16.1	Create 'add recipe' page, and allow users to create recipes that get stored in the database	4	Nick
16.2	Add cook time, instructions, and list of ingredients for each recipe	2	Nick
16.3	Testing	2	Nick
16.4	Mobile compatibility	1	Nick

Acceptance Criteria

1. Allow users to create recipes that are stored in the database.

2. Make sure that recipes cannot be duplicated in the database for consistency's sake.

3. Add various fields to recipes and the ability to modify them and share them on the fly.

User Story 17

As someone who wants to help others be healthier, I would like the ability to share my

recipes with others.

Associated Tasks

Task Number	Description	Time	Owner
17.1	Make recipes optionally shareable between users (owner owns shareable option)	3	Peter
17.2	Show recommended recipes to users	2	Peter
17.3	Ability to favorite recipes not belonging to you	1	Petter
17.4	Testing	2	Evan

Acceptance Criteria

1. Make sure that shareability works between users who want to view recipes from

   others.

2. Make sure that recipes that aren't shared can't be viewed from anybody but the

   owner.

3. Use recipes from users to recommend recipes to others.

User Story 18

As someone who doesn't cook much, I would like to have an easy-to-access hub of recipes and food options.

Associated Tasks

Task Number	Description	Time	Owner
18.1	Make recipes easily available in hub of 'favorites' for user	2	Logan
18.2	Make restaurants/meals from restaurants easily available in hub of 'favorites' for user	2	Evan
18.3	Testing	2 (eac h)	Logan/Evan

Acceptance Criteria

1. Make sure that all favorites recipes are saved to the database for a particular user.

2. Make sure that all favorite restaurants are saved to the database for a particular user.

3. Make sure that page feels responsive and that results aren't duplicated and has no visual/UI bugs (especially on mobile).