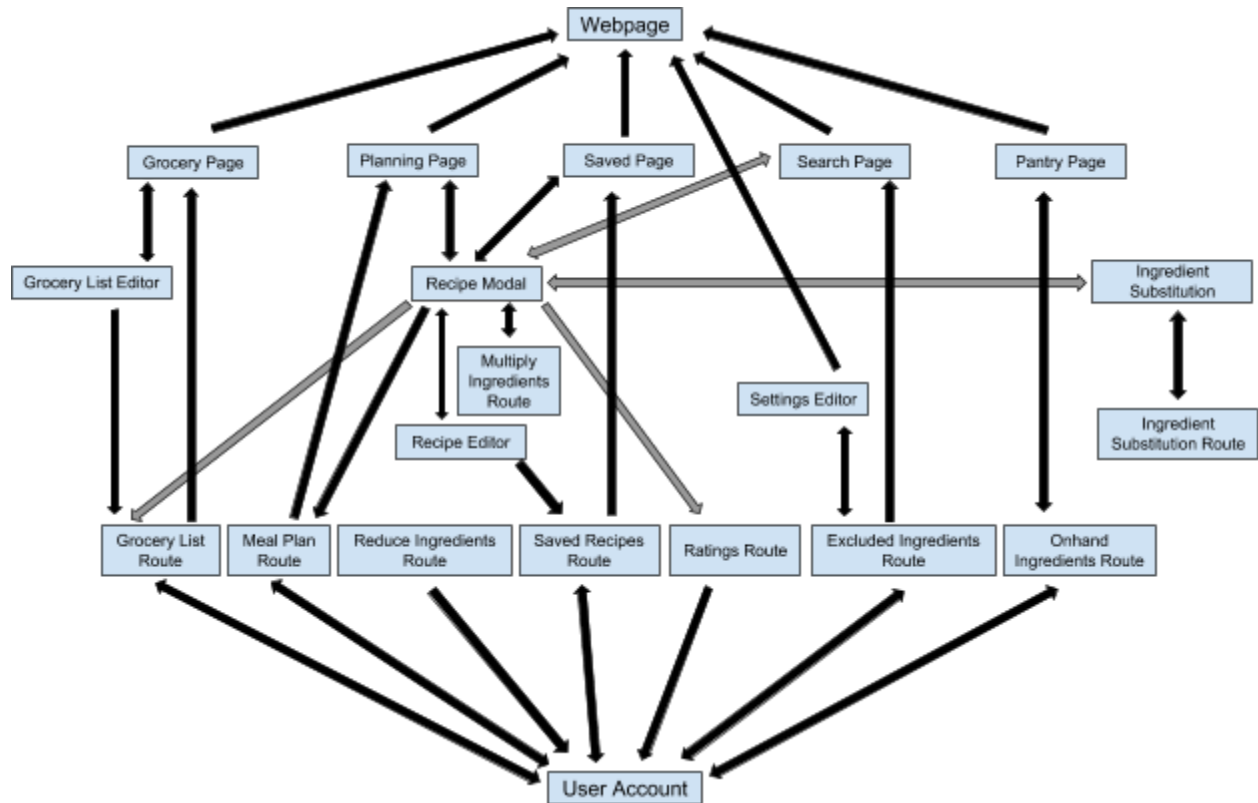# Night-In

Team 19
Sprint 2 Incremental and Regression Testing

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Classification of Components

Definition of components

Inputs and Outputs of Modules in Sprint 2

Module	Input	Output
Web Page	- Grocery Page: The UI of the Grocery Page - Planning Page: The UI of the Planning Page - Saved Page: The UI of the Saved Page - Search Page: The UI of the Search Page - Pantry Page: The UI of the Pantry Page - Settings Editor: The UI of the Settings	N/A
Recipe Modal	Recipe Editor: The UI of	Recipe Editor: The recipe

	the Recipe Editor	data to be edited ● Ratings Route: The rating of a newly rated recipe ● Grocery List Route: The information of the grocery list to add ● Meal Plan Route: the date and meal to add a meal plan for ● Reduce Ingredients Route: The ingredients to reduce for the user
Recipe Editor	● Recipe Modal: The information of the recipe to edit	● Save Recipe Route: The information of the recipe to save ● Recipe Modal: The UI of the Editor
Grocery Page	● Grocery List Route: The grocery lists of a specified user ● Grocery List Editor: The UI for the list editor	● Web Page: The UI of the Grocery Page ● Grocery List Editor: The information of the list to edit
Grocery List Editor	● Grocery Page: The information of the list to edit	● Grocery Page: The UI of the list editor ● Grocery List Route: The information of the newly edited list
Grocery List Route	● Grocery List Editor: The information of the edited list ● Recipe Modal: The information of the grocery list to add ● User Account: The grocery lists of a user to send to the front end	● Grocery Page: The grocery lists of a specified user ● User Account: The grocery list information to save to the user account
Settings Editor	● Excluded Ingredients Route: The current settings for a user	● Excluded Ingredients Route: The new settings for a user ● Web Page: The UI for the Settings Editor

Excluded Ingredients Route	● Settings Editor: The new settings for a user's excluded ingredients ● User Account: the settings for a user to pass to the editor	● Settings Editor: The current settings for a user ● User Account: The new settings to save in the database
Pantry Page	● On Hand Ingredients Route: The ingredients currently in one's "pantry"	● Webpage: the UI of the pantry page ● On Hand Ingredients Route: The ingredients to be added to the pantry
On Hand Ingredients Route	● Pantry Page: The ingredients to be added to the pantry ● User Account: The ingredients on hand to send to the front end	● Pantry Page: The ingredients currently in one's "pantry" ● User Account: The ingredients to be added to the pantry
Ratings Route	● Recipe Modal: The id and rating of a recipe to be recorded	● User Account: the rating to be saved for a user
Saved Recipes Route	● Recipe Editor: The information of the recipe to save ● User Account: The ratings to add onto the saved recipes to send to the front end	● Saved Page: The recipes with the rating field attached to them
Ingredient Substitution	● Recipe Modal: The name of the ingredient to substitute ● Ingredient Substitution Route: The suggested substitutions for the specified ingredient	● Recipe Modal: The UI of the ingredient substituter ● Ingredient Substitution Route: The name of the ingredient to substitute
Ingredient Substitution Route	● Ingredient Substitution: The name of the ingredient to substitute	● Ingredient Substitution: The suggested substitutions
Meal Planning	● Meal Plan Route: The	● Web Page: The UI for the

Page	meal plans for the specified user	Meal Planning Page
Meal Plan Route	● Recipe Modal: the date and meal to add a meal plan for ● User Account: The meal plans of a user to send to the front end	● Meal Planning Page: the meal plans for the specified user ● User Account: the meal plan to save to the user account
Search Page	● Excluded Ingredients Route: The user's dietary restrictions	● Webpage: the UI of the search page
Multiply Ingredients Route	● Recipe Modal: The detailed information on a recipe to be multiplied	● Recipe Modal: The detailed information on a recipe to be displayed
Reduce Ingredients Route	● Recipe Modal: The ingredients to reduce for the user	● Recipe Modal: A confirmation of successful reduction ● User Account: The ingredients to reduce for a user
User Account (Mongo Database)	● Reduce Ingredients Route: The ingredients to reduce for a user ● Meal Plan Route: the meal plan to save to the user account ● Ratings Route: The rating to add to a recipe ● On Hand Ingredients Route: The ingredients to be added to the pantry ● Excluded Ingredients Route: The new settings to save in the database ● Grocery List Route: The grocery list information to save to the user account	● Saved Recipes Route: The ratings to add onto the saved recipes to send to the front end ● Meal Plan Route: The meal plans of a user to send to the front end ● On Hand Ingredients Route: The ingredients on hand to send to the front end ● Excluded Ingredients Route: the settings for a user to pass to the editor ● Grocery List Route: The grocery lists of a user to send to the front end

Incremental Testing Approach

We took a bottom up approach by first testing the endpoints of our server and then working our way up through the UI components. We thought this fit the best with our web project since we would test the logic-heavy part first and then put everything together with the UI after knowing that the backend is already solid.

Incremental and Regression Testing

4) As a User, I would like to add my own custom recipes to my saved recipes lists

Module: Recipe Editor
Integration Testing:

Defect #	Description	Severity	How Corrected
1	Cannot enter a '/' for fractions (Custom 002)	2	Made '/' a permissible character in the regular expression

6) As a User, I would like to create multiple grocery lists

No defect found

8) As a User, I would like to set a list of ingredients that I cannot use

Module: Settings Editor
Integration Testing:

Defect #	Description	Severity	How Corrected
1	No notifications appear when saving an ingredient (Excluded Ingredients 001)	3	Added an alert upon a successful save
2	No notifications appear when trying to save a duplicate (Excluded Ingredients 003)	3	Added an alert when the user inputs a duplicate ingredient

10) As a User, I would like to track my ingredients on hand

Module: Pantry Page
Integration Testing:

Defect #	Description	Severity	How Corrected
1	Duplicate entries were allowed (Ingredient Tracking 003)	3	Created an alert to stop the user from duplicate inputs that was triggered by a failure response from the server
2	Entering multiple ingredients was allowed (Ingredient Tracking 005)	3	Added an alert when the user tries to save multiple ingredients

12) As a User, I would like to edit my saved searched recipes

No defect found

15) As a User, I would like to specify my diet (i.e. vegetarian, vegan, etc.) to receive relevant search results and save this to my account

No defect found

16) As a User, I would like to give ratings to particular recipes

No defect found. Multiple tests invalidated due to design decisions to make it literally impossible for the user to input values outside of 1-5

17) As a User, I would like to sort my saved recipes by ratings

No defect found

20) As a user, I would like to view nutrition information for recipes in a graphical format

No defect found

21) As a user, I would like to find substitutions for ingredients

No defect found. Substitution 002 and 003 invalidated by design changes due to irregularity of responses from the API

23) As a user, I would like to make a meal plan based on my saved recipes

Module: Meal Plan Page
Integration Testing:

Defect #	Description	Severity	How Corrected
1	Adding a meal plan recipe in a past date adds it to the calendar (Meal Plan 002)	3	Set a min date of the current day to the meal plan date picker
2	Adding a meal plan recipe to a date more than a year from current date adds it to the calendar (Meal Plan 003)	3	Set a max date of current day +1 year to the meal plan date picker

24) As a user, I would like to modify/delete recipes in my meal plan

Module: Meal Plan Page
Integration Testing:

Defect #	Description	Severity	How Corrected
1	No confirmation is displayed (Meal Plan Modify 001)	3	Added alert to when successfully deleted from the calendar

25) As a user, I would like to search for recipes using only the ingredients I have on hand

No defect found. Ingredients On Hand Search 003 invalidated by change design decision to instead automatically perform a search for the user with the ingredients on hand rather than also asking for a query string.

26) As a user, I would like to have the option of saving when I bought ingredients on the app to track freshness

Module: On Hand Ingredients Route
Integration Testing:

Defect #	Description	Severity	How Corrected
1	Editing onhand ingredient does not actually update ingredient	2	Frontend sent updated ingredient in an array while backend expected a single object. Fixed backend to work with array
2	No message appears when selecting a future date (Date 003)	3	Set a max date of current day to date picker
3	No message appears when selecting current date (Date 005)	3	Does not make sense because you should be able to add recipes gotten on the current day

27) As a user, I would like to combine simple recipes into a single meal on my meal planner

No defect found

28) As a user, I would like to have a multiplier on a viewed recipe so that I can get proper ingredient quantities if I were to make the recipe more than once

Module: Multiply Ingredients Route
Integration Testing:

Defect #	Description	Severity	How Corrected
1	Error message says "Please specify a quantity between 0 and 100" when 0 is out of boundary	3	Fixed the Alert to say 1 to 100

29) As a user, I would like my ingredients on hand to decrease after making a recipe

No defect found

Updated Product Backlog

Functional Requirements

Backlog Id	Functional Requirements	Hours	Status
1	As a User, I would like to create an account	6	Completed in sprint 1
2	As a User, I would like to look up recipes	9	Completed in sprint 1
3	As a User, I would like to log into my account that I set up before	3	Completed in sprint 1
4	As a User, I would like to add my own custom recipes to my saved recipes lists	6	Completed in sprint 2
5	As a User, I would like to log out of my account	3	Completed in sprint 1

6	As a User, I would like to create multiple grocery lists	7	Completed in sprint 2
7	As a User, I would like to search by ingredients	7	Completed in sprint 1
8	As a User, I would like to set a list of ingredients that I cannot use	5	Completed in sprint 2
9	As a User, I would like to save searched recipes to my account	5	Completed in sprint 1
10	As a User, I would like to track my ingredients on hand	7	Completed in sprint 2
11	As a User, I would like to write notes on my saved recipes	5	Completed in sprint 1
12	As a User, I would like to edit my saved searched recipes	6	Completed in sprint 2
13	As a User, I would like to see a price breakdown of recipes	5	Excluded: API returned graph that could not be used, and API lacks route for pure data
14	As a User, I would like to see a price breakdown of recipes based on the current ingredients that I have on hand	6	Excluded: API returned graph that could not be used, and API lacks route for pure data
15	As a User, I would like to specify my diet (i.e. vegetarian, vegan, etc.) to receive relevant search results and save this to my account	5	Completed in sprint 2
16	As a User, I would like to give ratings to particular recipes	7	Completed in sprint 2
17	As a User, I would like to sort my saved recipes by ratings	7	Completed in sprint 2
18	As a user, I would like to be able to print out recipes	5	Completed in sprint 1
19	As a user, I would like to be able to view random recipes	4	Completed in sprint 1

20	As a user, I would like to view nutrition information for recipes in a graphical format	6	Completed in sprint 2
21	As a user, I would like to find substitutions for ingredients	6	Completed in sprint 2
22	As a User, I would like to be able to delete recipes from my saved recipes	4	Completed in sprint 1
23	As a user, I would like to make a meal plan based on my saved recipes	8	Completed in sprint 2
24	As a user, I would like to modify/delete recipes in my meal plan	6	Completed in sprint 2
25	As a user, I would like to search for recipes using only the ingredients I have on hand	6	Completed in sprint 2
26	As a user, I would like to have the option of saving when I bought ingredients on the app to track freshness	5	Completed in sprint 2
27	As a user, I would like to combine simple recipes into a single meal on my meal planner	5	Completed in sprint 2
28	As a user, I would like to have a multiplier on a viewed recipe so that I can get proper ingredient quantities if I were to make the recipe more than once	4	Completed in sprint 2
29	As a user, I would like my ingredients on hand to decrease after making a recipe	6	Completed in sprint 2

Non-Functional Development Requirements

30	As a developer, I would like to have a basic framework of the frontend to build off of for my user stories	7	Completed in sprint 1
31	As a developer, I would like to have the frontend be hosted on firebase	5	Completed in sprint 1
32	As a developer, I would like the server to be	5	Completed in sprint 1

	hosted remotely and accessible		
33	As a developer, I would like to have my web traffic secure via https	5	Completed in sprint 1