

Helping you cook recipes your way



Our Team



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Health Limitations







Problem

People who cook can have difficulty finding recipes that align with their **dietary restrictions** and **preferences**.

Making modifications to recipes to fit their needs complicates the process of figuring out what **nutrients** are in the food they make and eat.







Modifications





Solution

Recipal aims to help users **overcome uncertainty** about the recipes they are making by helping them **understand nutritional value, make modifications,** and **learn cooking techniques**.

By making cooking fun and informed, Recipal creates a more welcoming and approachable cooking environment.

Medium Fidelity Prototype

Setting Restrictions & Preferences





Medium Fidelity Prototype

Making a recipe







Overview of Talk

1 2 3 4 5

Heuristic Evaluation Results Overview of Revised Design

Prototype Implementation Status

Demonstration of Prototype

Summary and Questions

Heuristic Evaluation Results



64 total violations

1 severity 0

19 severity 1

24 severity 2

14 severity 3

1 severity 4



Most violated heuristics

H3 User Control (9/64)

H8 Minimalist Design

Severity 3 + 4



Type of Heuristic	Description	Action
H1 Visibility of System Status	Unclear if recipe search is based on dietary restriction/nutritional preference filters	Fix: If the recipe violates one of the user's diet, it will appear with an exclamation point
H2 Match between System and World	Cannot change the units into what I am familiar with.	Fix: Add a customary/metric toggle on the Me page
H3 User Control and freedom	Cannot navigate freely through recipe, skipping steps by tapping on progress dots	Will not fix: We are following convention about dots not being functional
H3 User Control & Freedom	User may want to quit out of the recipe and save progress but can not.	Fix: Add "save progress" button when prompting for exit
H3 User Control and Freedom	User not given visual prompt of how to change increments, can't decrease quantity	Fix: the inclusion of either a scroll menu or increment/decrement arrows to modify quantity
H4 Consistency and Standards	Back button in "Recipe Steps" cancels whole recipe instead of going back to ingredients page	Fix: Change the back button to an exit button

Use Use	than fun fact	select into one page	
H7 Flexibility & Efficiency of Use	Users have to click on each recipe or each ingredient to learn more	Fix: Include high-level nutritional facts and information about recipe on label	
H7 Flexibility and efficiency of use	Cannot save the modified recipe.	Will not fix: Cannot implement in timeframe, requires accounts/cloud database	
H8 Aesthetic and Minimalist Design		Fix: Rely on one or two default fonts	
H9 Help users recognize, diagnose, and recover from errors	No error message alerting that ingredient is essential, user should add ingredient back.	Fix: Add an error message that alerts the user to add the essential ingredient back	
H9 Help Users Recognize, Diagnose, and Recover From Errors	Modification warning message doesn't state the exact nature of the violation	Fix: Specify that limits will be per meal. Error message will include what the exceeded limit was/how this modification exceeds it	

Home page has no purpose other

Fix: Combine home page and recipe category

H7 Flexibility & Efficiency of



Overview of Revised Design



- 1. Renovating the **Home Page**
- 2. Clearly informing how <u>recipe search</u> uses <u>user</u> <u>restrictions</u>
- Clearly indicating how <u>modifications</u> violate <u>user</u> <u>preferences</u>



Usability Goals

1. Learnability

Learning to use app, Learning from the app

2. Flexibility

Friendly to all users

1. Renovating the <u>Home Page</u>



H1 Visibility of System Status

Violation: Home page has no purpose other than fun fact

Fix: Combine home page and recipe category select into one page

Med-Fi Prototype

1. Renovating the <u>Home Page</u>



Learnability: Improved Flexibility: Same

Learnability: Less navigation makes the app easier to learn to use

Med-Fi Prototype

2. Clearly informing how <u>recipe search</u> uses <u>user</u> restrictions

H7 Flexibility & Efficiency of Use



Violation: Unclear if recipe search is based on dietary restriction/nutritional preference filters



Fix: If the recipe violates one of the user's diet, it will appear with an exclamation point

2. Clearly informing how <u>recipe search</u> uses <u>user</u> <u>restrictions</u>



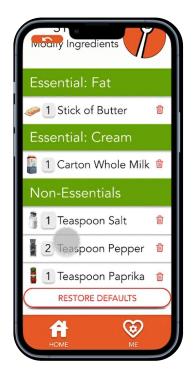


Learnability: Improved Flexibility: Improved

Learnability: Better warning icons lets users learn what they can and cannot do and why

Flexibility: New warning icon makes choosing recipes more safe for all users

3. Clearly indicating how <u>modifications</u> violate <u>user preferences</u>



H9 Help Users Recognize, Diagnose, and Recover From Errors

Violation: Modification warning message doesn't state the exact nature of the violation

Fix: Specify that limits will be per meal. Error message will include what the exceeded limit was/how this modification exceeds it

Med-Fi Prototype

3. Clearly indicating how <u>modifications</u> violate <u>user preferences</u>



Learnability: Improved Flexibility: Improved

Learnability: Better explanation lets users learn what they can and cannot do and why

Flexibility: Better explanation makes making modifications more safe for all users

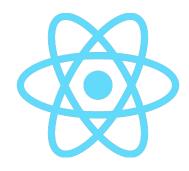
Med-Fi Prototype



Prototype Implementation Status



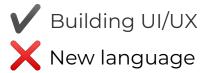




React Native

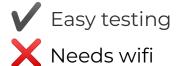
Mobile

Development



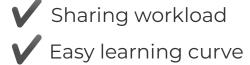


Expo Mobile Development



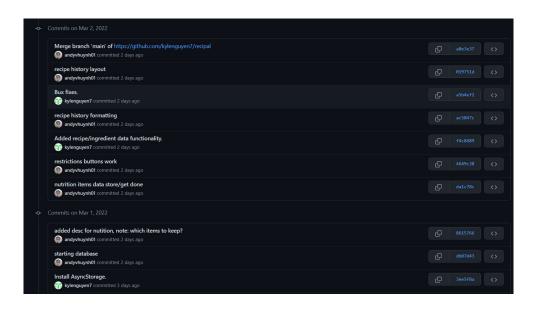


GitVersion Control,
Collaboration





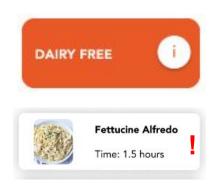
Implemented Features



- Page layouts and navigation
- User input data storage
- Modifications
- Nutritional limit warnings



Unimplemented Features & Plan





- Restrictions showing up as exclamation points on recipe select
- Recipe history
- Recipe and ingredient databases



By 3/11

Remaining Timeline



By 3/6

By 3/6

By 3/9



Hard-coded Data



Greeting



Personal Progress Counters



Recipe History

Fun Fact
Black pepper was so valuable, it used to be a currency in the Middle Ages!

Fun Fact



Wizard of Oz Techniques

Nutrition limits are not calculated faithfully and use crude estimates

- Each ingredient is pre-labeled with a nutrient per unit ratio
- e.g. fettuccine pasta: 7g carbohydrates / oz

Issues/Questions

Switching between customary and metric

- Varies by ingredient (weight vs. volume)
- e.g. a cup of feathers is heavier than a cup of marbles



Demonstration of Prototype

- ?
- 5 Summary & Questions



Summary

Heuristic Evaluation Results	Overview of Revised Design	Prototype Implementation Status	Demonstration of Prototype
15 total severity3-4 issues found	Home page	 Completed layout, 	Making a recipe
(one 4 and fourteen 3's)	 Clear indications of how user restrictions and 	modifications, and nutrition warnings	 Making a modification
 Will address most of the issues 	preferences are used	Need restriction	 Setting a personal diet
OI LITE ISSUES	useu	indications and more recipes	alet



