

Cook Better version 2.0

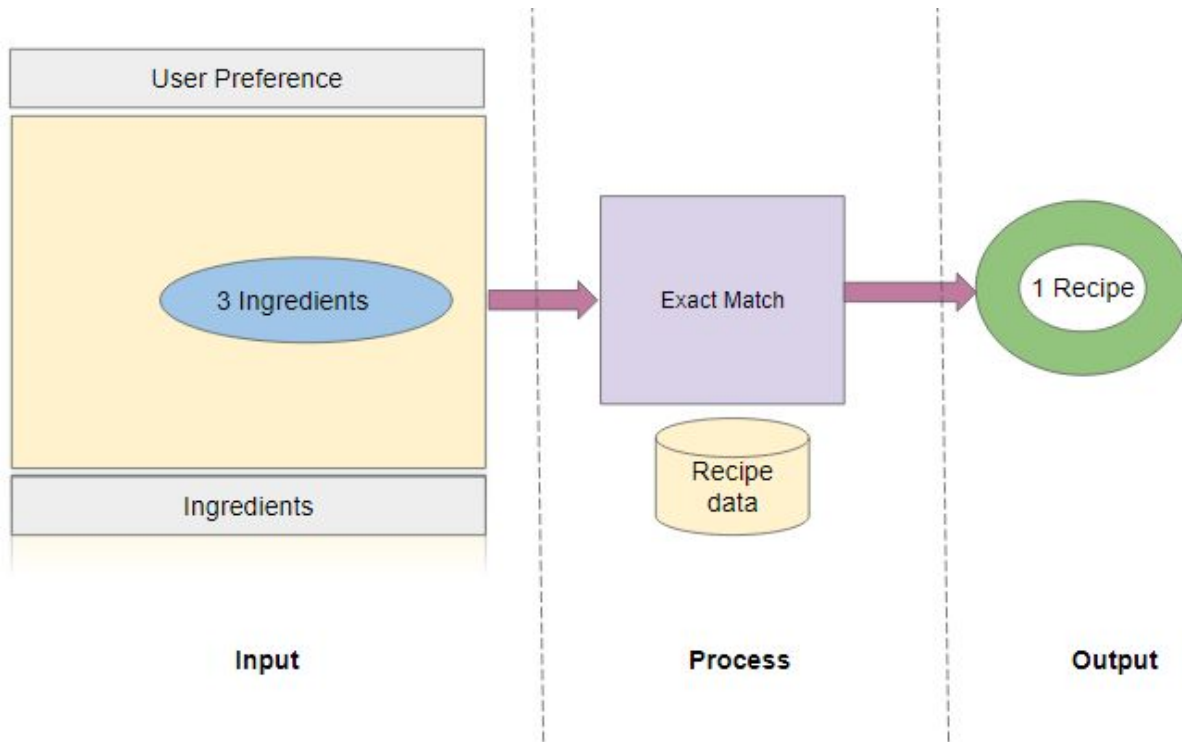


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About cookbetter

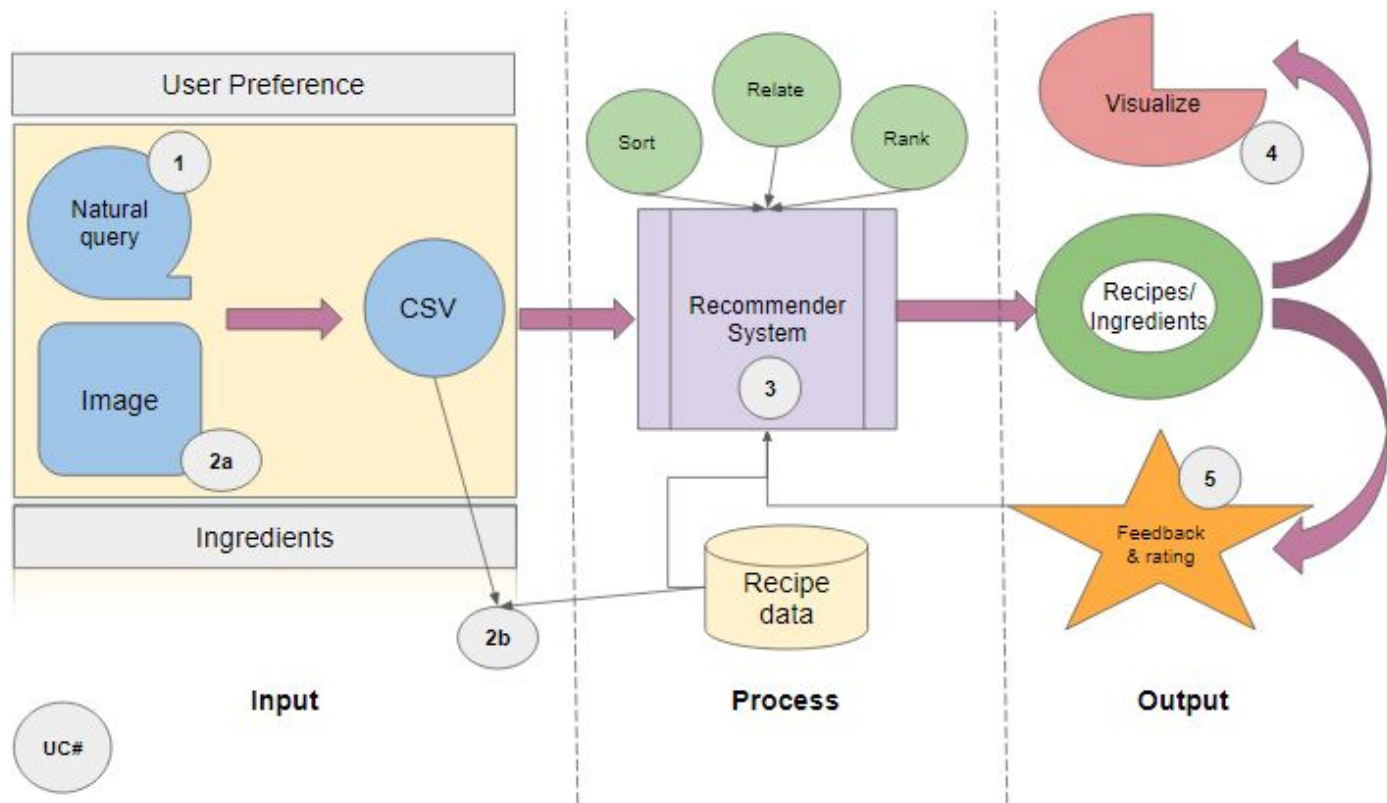
Version 1 architecture



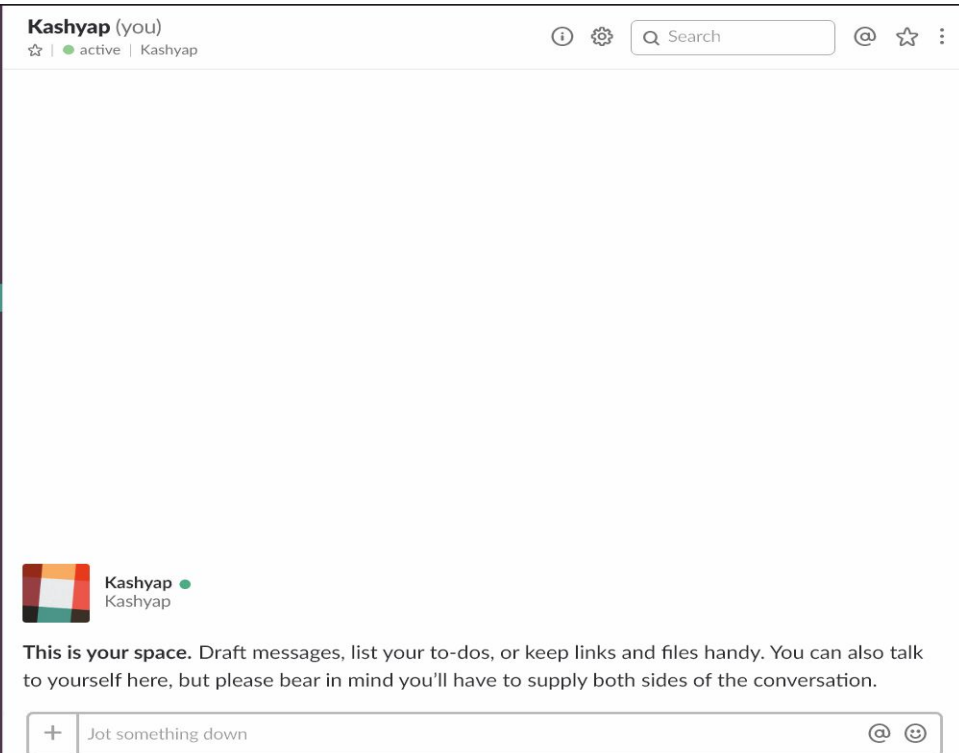
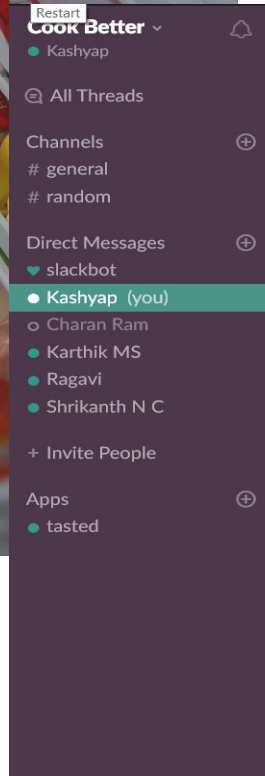
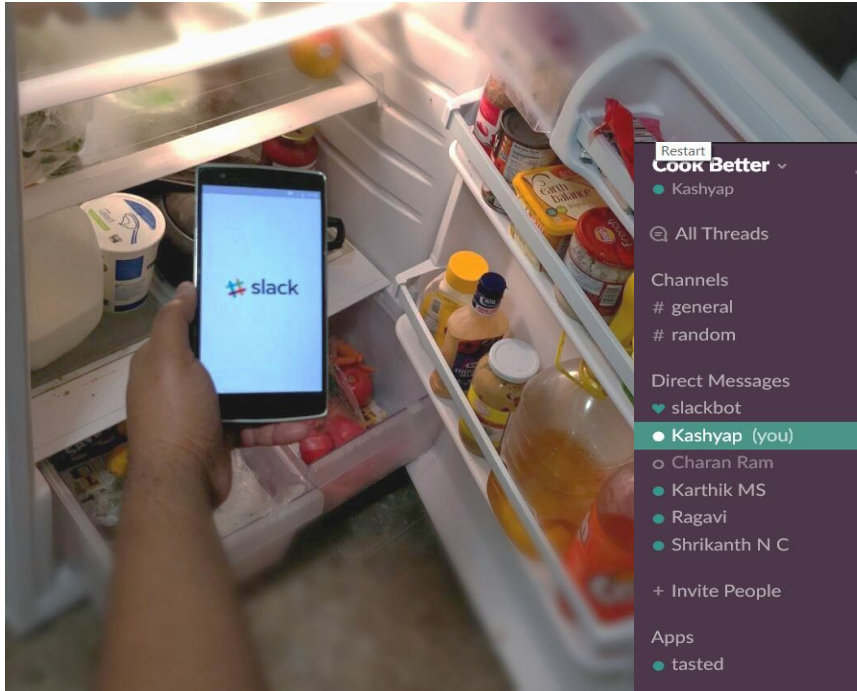
Lessons from the past

- ❑ Restriction on number of ingredients
 - Needs a more intuitive and interactive user interface
- ❑ Recommends only exact match recipes
 - Implement a ranking based recommendation engine
- ❑ Single hyperlink as the output
 - provide more informative results within Slack

version 2 architecture



Use Case 1 : Pic to recipe



Use Case 2 : Free-form text

The screenshot displays a Slack interface. On the left is a dark sidebar with a list of items: 'Cook Better' (with a dropdown arrow), 'Kashyap' (with a green status dot), 'All Threads' (with a magnifying glass icon), 'Channels' (with a plus icon), '# general', '# random', 'Direct Messages' (with a plus icon), 'slackbot' (with a heart icon), 'Kashyap (you)' (highlighted with a green bar), 'Charan Ram', 'Karthik MS', 'Ragavi', 'Shrikanth N C', '+ Invite People', 'Apps' (with a plus icon), and 'tasted'. The main area shows a conversation with 'Kashyap (you)', who is marked as 'active'. At the top right of the main area are icons for help, settings, a search bar, and actions like mentioning, starring, and a menu. The conversation content shows a message from 'Kashyap' with a colorful square profile picture and the text: 'This is your space. Draft messages, list your to-dos, or keep links and files handy. You can also talk to yourself here, but please bear in mind you'll have to supply both sides of the conversation.' At the bottom is a text input field with a plus icon on the left, the placeholder text 'Jot something down', and icons for mentioning and emojis on the right.

Cook Better ▾
● Kashyap

🔍 All Threads

Channels +
general
random

Direct Messages +
♥ slackbot


● **Kashyap (you)**
○ Charan Ram
● Karthik MS
● Ragavi
● Shrikanth N C

+ Invite People

Apps +
● tasted

Kashyap (you)
☆ | ● active | Kashyap

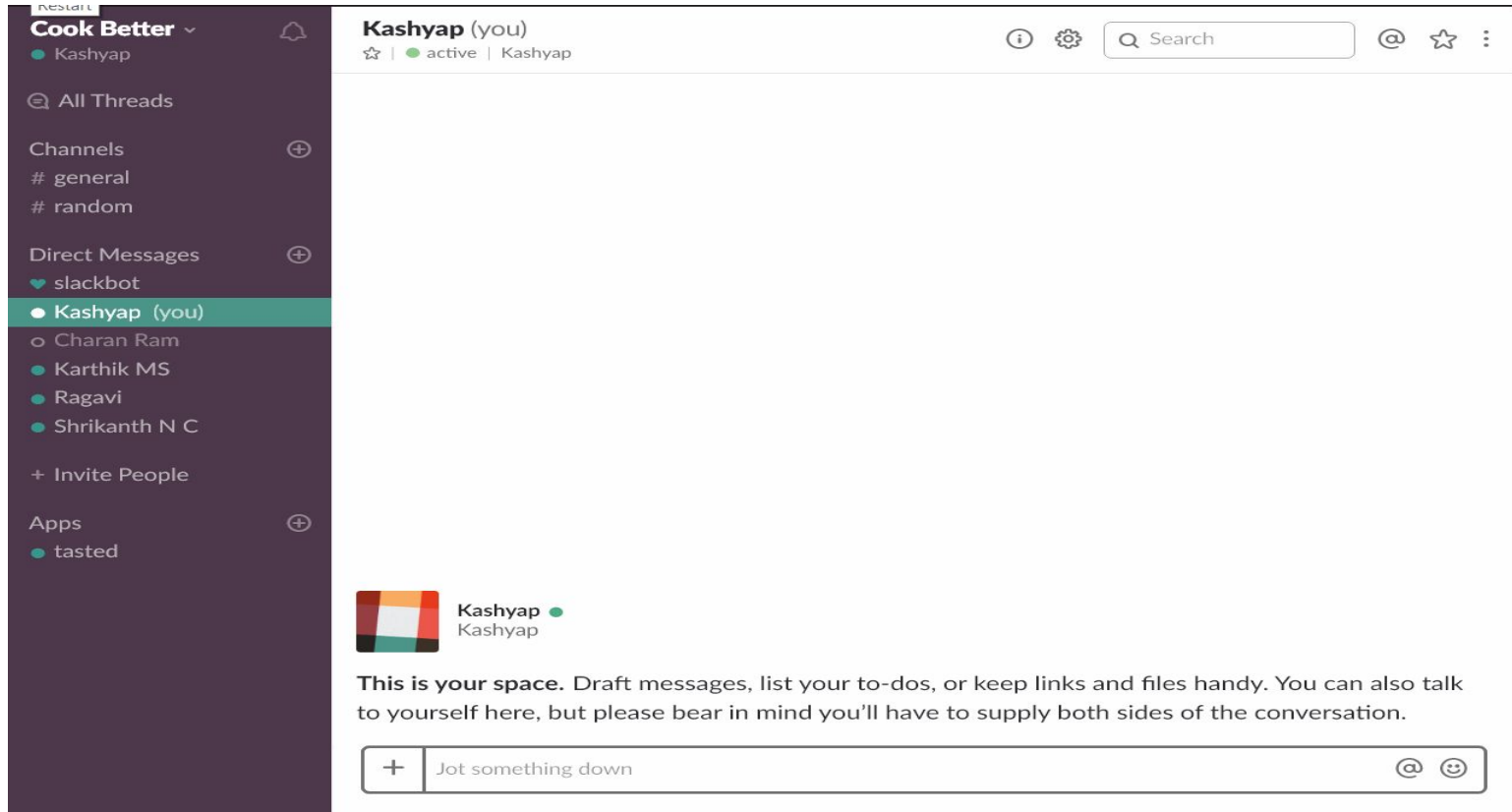
ⓘ ⚙️ 🔍 Search @ ☆ ⋮

 **Kashyap** ●
Kashyap

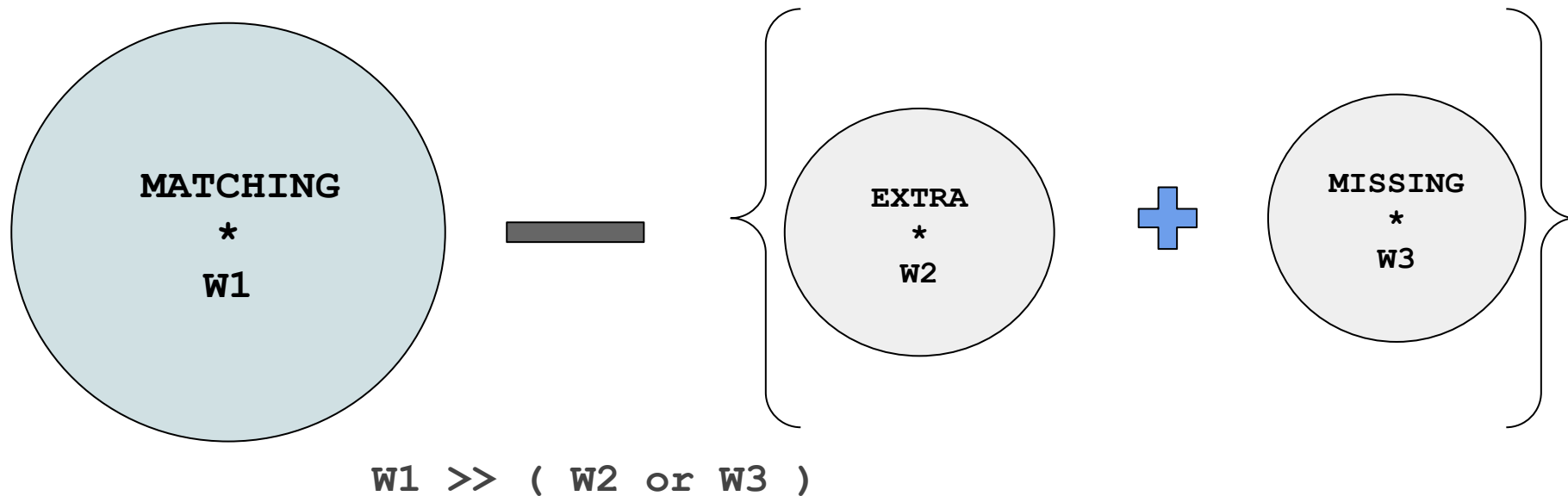
This is your space. Draft messages, list your to-dos, or keep links and files handy. You can also talk to yourself here, but please bear in mind you'll have to supply both sides of the conversation.

+ Jot something down @ 😊

Use Case 3 : A better recommender system



Recommender System



CONFIGURATION

RECOMMEND_UPTO

WEIGHTS

EXTRA_INGREDIENT (W2)

MISSING_INGREDIENT (W3)

Challenges Faced & Overcome

❖ Plurality

- *if apple = apples unfortunately cherry = cherries*
 - *Edit distance (well sort of)*

❖ Performance & Cost

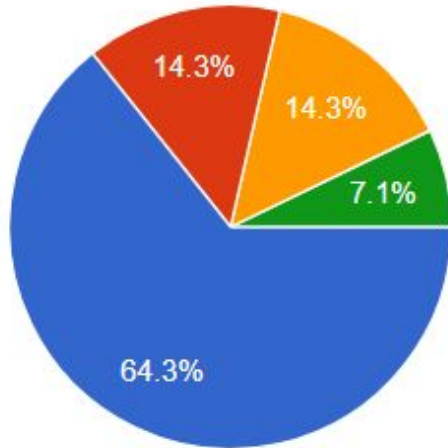
- *Image contains a car & duh its not an ingredient*
 - *Cache once and don't process again*

Task based evaluation

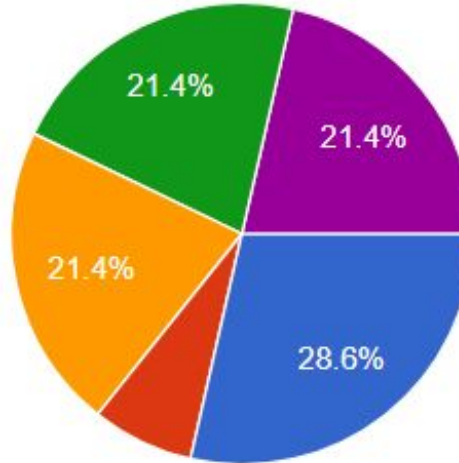
- Impartial and Objective Assessment technique
- Main Metric: **Time Taken** to complete tasks
 - Task 1: /suggest
 - Task 2: /searchrecipes
 - Task 3: /imagesearch
- **Usability** of CookBetter app
 - /suggest feature
 - /imagesearch feature
 - User feedback

Evaluation results : time (1/2)

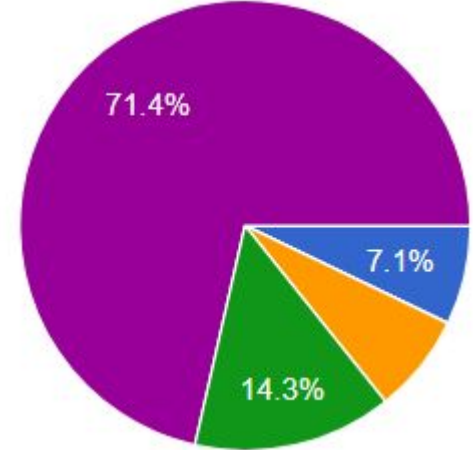
/suggest



/searchrecipes



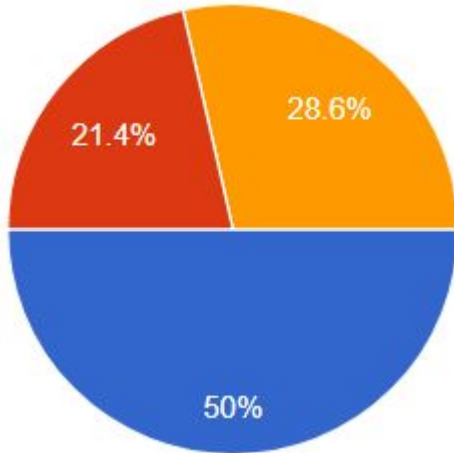
/imagesearch



- Less than 5 seconds
- 5 seconds
- 10 seconds
- 15 seconds
- More than 15 seconds

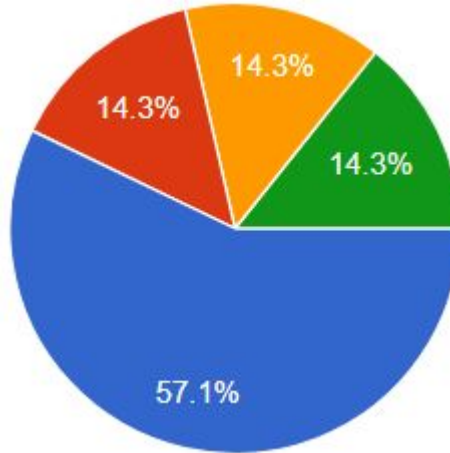
Evaluation results : usability (2/2)

In-app directions



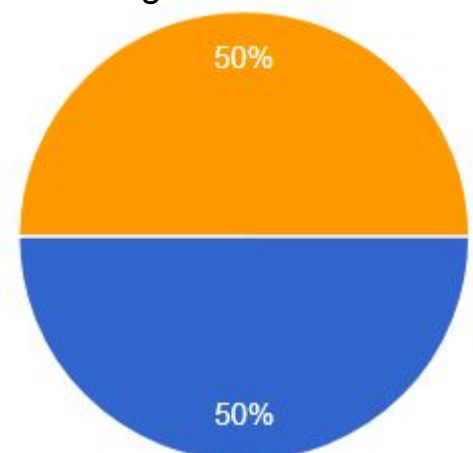
- In-app directions are useful
- Just a link to the website is enough
- Doesn't matter

/suggest feature



- Will use this feature often
- Will use this feature sometimes
- May not use this feature as much
- May not use this feature at all

/image search feature



- Yes
- No
- Maybe

Evaluation - Inferences

- ★ Slack's **Simplicity** has been maintained
 - Actual Time taken \approx Expected time
- ★ Different Input methods
 - Text based or Image based
- ★ Image recognition is a hurdle

I like the feature of uploading image rather than typing.

The improvements are really good

Many of the recipes for breakfast I couldn't find it in suggestions. In Slack, we need to type a lot of commands then it gives me recipes so previous chat requires a lot of scrolling.

Great job

'/suggest Classic Caesar Salad' - doesn't allow searching for recipes by title, as mentioned above. It returns the result for 'Sea Salt-Roasted Pecans'. Also, I wasn't able to work my way around Image search following the video, probably I missed some specification related to image upload ? That could be mentioned in the question. I did not evaluate the previous version, but this looks good!

Future Scope

- Personal diet planner
- Optimization
 - Image
 - Ingredients
 - Performance
- Retail integration

Thank You

Group - O