

## SEARCH FUNCTIONALITY

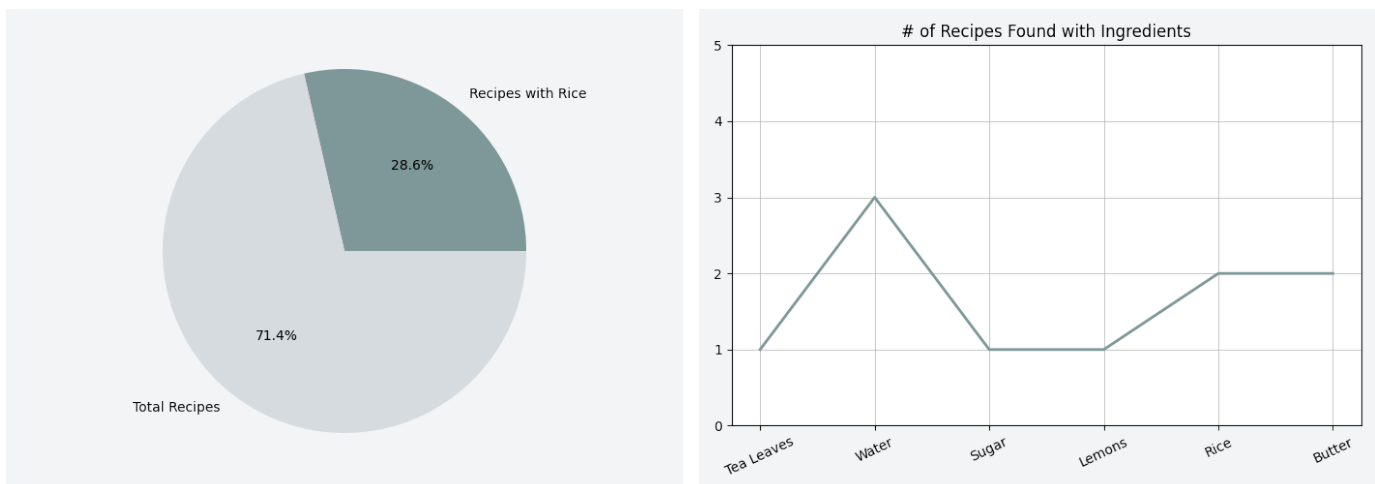
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With implementing search functionality on the Recipe project, users should be able to search for individual ingredients and also recipes themselves. To do so, I've implemented wildcards that checks if recipe names and ingredients contain the search term inputted by the user. This also allows users to input partial terms, e.g. inputting 'le' will return the recipe for tea because the of the ingredient 'tea leaves' and also lemon rice because of the name and also the ingredient 'lemon'.

## DATA VISUALIZATION

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For data visualization, the user is given the option of a bar chart, pie chart, or a line graph. For the bar chart and line graph, users will be shown the unique ingredients from the found recipes on one axis, and the other axis shows the total amount of recipes in the database. Each bar/point on the graphs reflects how many recipes each ingredient is found in (e.g. 'water' is found in 3 recipes). The pie chart reflects the percentage of the recipes in the database that have the searched term.



## EXECUTION FLOW

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User lands on the home page and logs in, then are redirected to recipe list view where they can either go to a detailed view of a recipe or select from the menu. The menu can also be accessed from the detailed view. From the menu the user can go to the search page or logout.

