

## Task 2.7

### Data Analysis

I added the feature to search recipes by difficulty level and display its data on the table and preferred chart. Users can choose difficulty level (or choose 'All' display all records from the database) and the type of chart that they want the data to be displayed on from the dropdown menu.

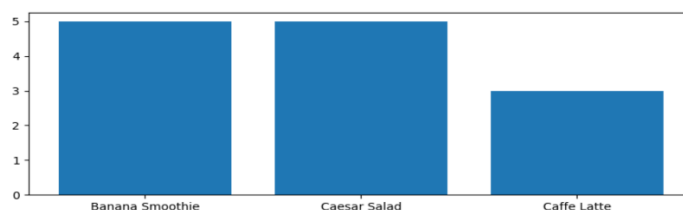
Difficulty: All Chart type: Bar chart Search

All  
Easy  
Medium  
Intermediate  
Hard

According to user's search criteria, the app returns the filtered records as QuerySet. The app then converts the QuerySet to pandas DataFrame, and display the results as table.

The app also provides data visualization using 'matplotlib' library. The following images are charts of recipes in the database with 'Medium' difficulty.

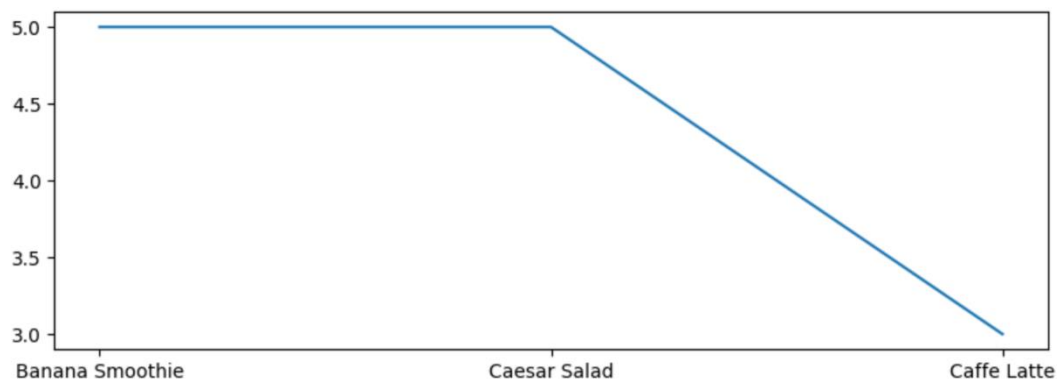
	id	name	category	cooking_time	serving	ingredients	directions	pic
0	2	Banana Smoothie	main	5.0	1	Frozen Banana, Milk, Peanut Butter, Sugar	1) Break frozen bananas into smaller pieces. \r\n2) Add all ingredients into the blender. \r\n3) Serve it in the desire glass.	recipes/banana_smoothie.jpg
1	3	Caesar Salad	side	5.0	1	lettuce, parmesan cheese, croutons, Caesar dressing	1) Wash lettuce and place it in a large bowl. \r\n2) Add grated parmesan cheese and toasted croutons. \r\n3) Add Caesar dressing on top.	recipes/caesar_salad.jpg
2	5	Caffe Latte	dessert	3.0	1	grounded coffee, hot water, warm milk, sugar	1) Make filter coffee with grounded coffee and hot water. \r\n2) Pour warm milk and add sugar of your choice.	recipes/caffelatte.jpg



Bar chart (x-axis: recipe's names, y-axis: cooking times)

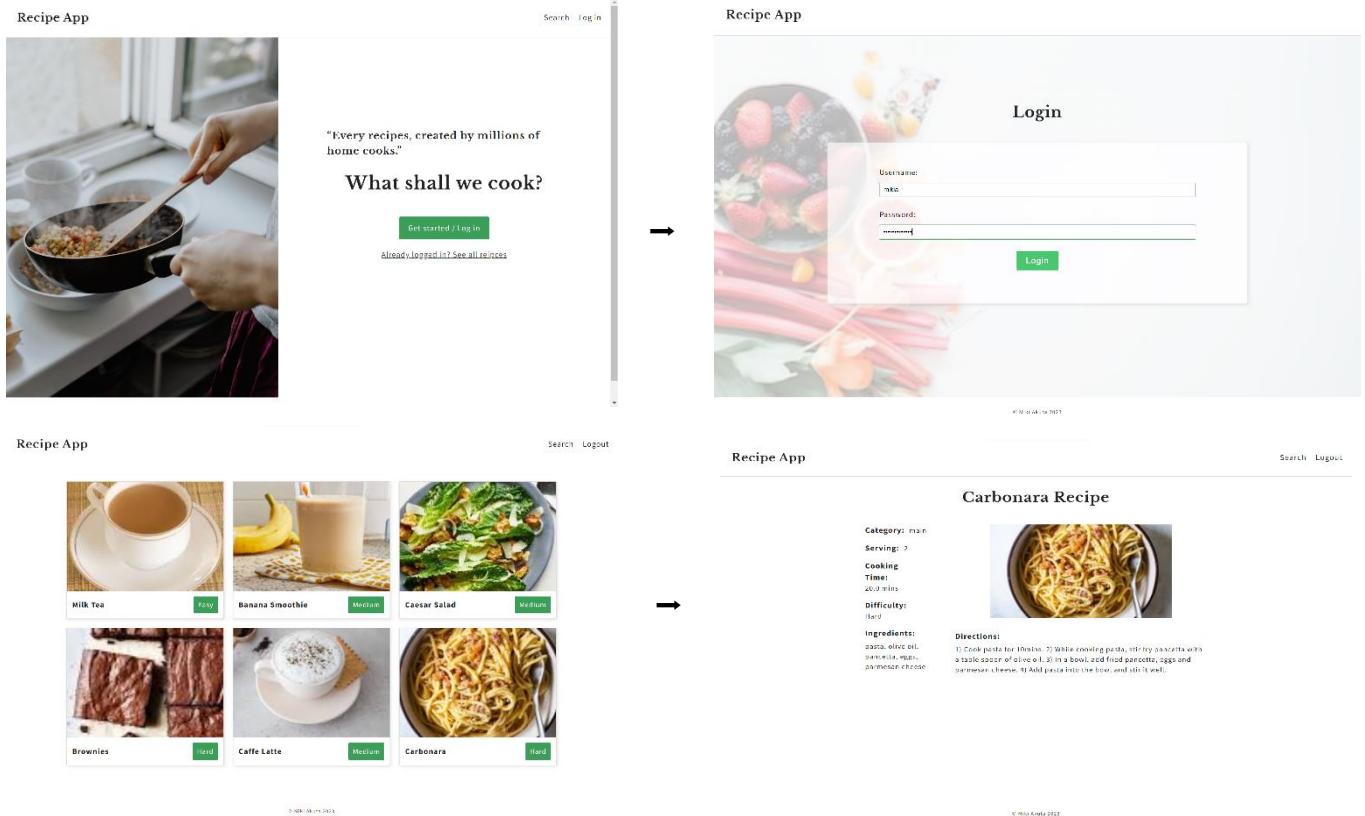


Pie chart (label: categories of found recipes, ratio: cooking times)



Line chart (x-axis: recipe's names, y-axis: cooking times)

## Execution Flow



Difficulty: 1 out of 5

Chart type: Bar chart

Search

ID	Name	Category	Cooking time	Serving	Ingredients	Directions	pic
0	Brownies	dessert	40.0	2	plain flour, eggs, sugar, cocoa powder, chopped chocolate, butter	1) Place a bowl in hot water and let the chocolate and butter melt together, whisk well. 1/1x2) Whisk eggs and sugar well in another bowl. 1/1x3) Add whisked eggs and sugar to the bowl 1. 1/1x4) Add plain flour and cocoa powder and mix it well. 1/1x5) Pour the mixture into a square tin lined with baking paper and bake in a 160°C oven for about 10 minutes. 1/1x6) Let the brownies cool completely before slicing.	recipes/brownie.jpg
1	Carbonara	main	20.0	2	pasta, olive oil, pancetta, eggs, parmesan cheese	1) Cook pasta for 10 mins. 2) Heat/cook pasta, stir fry pancetta with a table spoon of olive oil. 3) In a bowl, add 1/100 parmesan, eggs and parmesan cheese. 4) Add pasta into the bowl and stir it well.	recipes/carbonara.jpg

dessert

main



Recipe App

login

You've successfully logged out!

Log in

© 2014 All rights reserved