

In my recipe app, I would like the users to easily find recipes by searching for either recipe names or ingredients or recipe difficulty levels.

## Data Analysis

The app provides data visualization on the search page using the Matplotlib library. Based on the chart type selected by the user, it displays a visual representation of recipe names against their respective cooking times.

### Bar chart

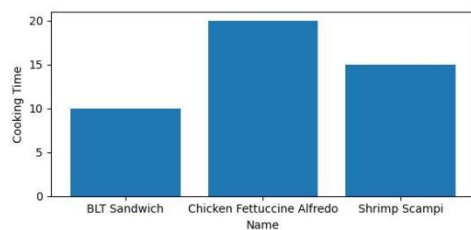
X: Recipe name

Y: Cooking time

#### Search for Recipes

Recipe Name:  Ingredients:  Recipe Difficulty Level:  Chart Type:

	id	name	cooking_time	ingredients	difficulty	pic	recipe_id
0	3	BLT Sandwich	10	Toasted White Bread, Bacon, Lettuce, Tomato, Mayo	Hard	recipes/bltsandwich.jpg	BLT Sandwich
1	4	Chicken Fettuccine Alfredo	20	Fettuccine, Chicken breast, Alfredo cream sauce, Butter, Olive oil	Hard	recipes/chickfetalf.jpg	Chicken Fettuccine Alfredo
2	5	Shrimp Scampi	15	Shrim, capellini, Olive oil, Butter, Garlic, Parmesan Cheese	Hard	recipes/Easy-Shrimp-Scampi-Recipe.jpg	Shrimp Scampi



### Line Chart

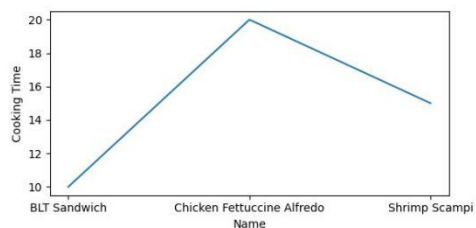
X: Recipe name

Y: Recipe name

#### Search for Recipes

Recipe Name:  Ingredients:  Recipe Difficulty Level:  Chart Type:

	id	name	cooking_time	ingredients	difficulty	pic	recipe_id
0	3	BLT Sandwich	10	Toasted White Bread, Bacon, Lettuce, Tomato, Mayo	Hard	recipes/bltsandwich.jpg	BLT Sandwich
1	4	Chicken Fettuccine Alfredo	20	Fettuccine, Chicken breast, Alfredo cream sauce, Butter, Olive oil	Hard	recipes/chickfetalf.jpg	Chicken Fettuccine Alfredo
2	5	Shrimp Scampi	15	Shrim, capellini, Olive oil, Butter, Garlic, Parmesan Cheese	Hard	recipes/Easy-Shrimp-Scampi-Recipe.jpg	Shrimp Scampi

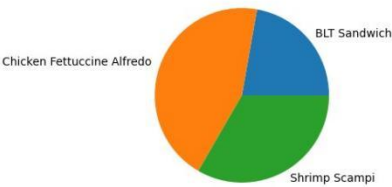


Pie chart  
Recipe names

Search for Recipes

Recipe Name:  Ingredients:  Recipe Difficulty Level: Hard Chart Type: Pie chart

id	name	cooking_time	ingredients	difficulty	pic	recipe_id
03	BLT Sandwich	10	Toasted White Bread, Bacon, Lettuce, Tomato, Mayo	Hard	recipes/bltsandwich.jpg	BLT Sandwich
14	Chicken Fettuccine Alfredo	20	Fettuccine, Chicken breast, Alfredo cream sauce, Butter, Olive oil	Hard	recipes/chickfetalf.jpg	Chicken Fettuccine Alfredo
25	Shrimp Scampi	15	Shrim, capellini, Olive oil, Butter, Garlic, Parmesan Cheese	Hard	recipes/Easy-Shrimp-Scampi-Recipe.jpg	Shrimp Scampi



Execution flow  
The following images show the user flow

Welcome to our Recipes

[Login](#)

[Logout](#)



# Login

Username:

Password:

Login

# Recipes' list

[Search Recipes](#)

[Logout](#)

Recipes' Names	Recipes' Images
<a href="#">Tea</a>	
<a href="#">French Vanilla Coffee</a>	
<a href="#">BLT Sandwich</a>	
<a href="#">Chicken Fettuccine Alfredo</a>	
<a href="#">Shrimp Scampi</a>	

Details: Tea

Recipe Name: Tea  
Cooking Time (min): 5  
Ingredients: Tea Leaves, Sugar, Water  
Difficulty: Medium



[Search Recipes](#)

[Logout](#)

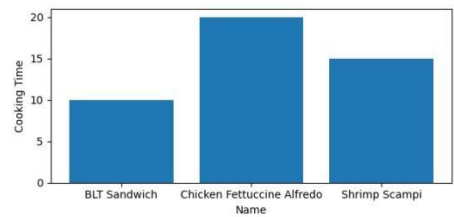
Search for Recipes

[Recipe Lists](#)

[Logout](#)

Recipe Name:  Ingredients:  Recipe Difficulty Level: Hard Chart Type: Bar chart

id	name	cooking_time	ingredients	difficulty	pic	recipe_id
03	BLT Sandwich	10	Toasted White Bread, Bacon, Lettuce, Tomato, Mayo	Hard	recipes/bltsandwich.jpg	BLT Sandwich
14	Chicken Fettuccine Alfredo	20	Fettuccine, Chicken breast, Alfredo cream sauce, Butter, Olive oil	Hard	recipes/chickfetaf.jpg	Chicken Fettuccine Alfredo
25	Shrimp Scampi	15	Shrim, capellini, Olive oil, Butter, Garlic, Parmesan Cheese	Hard	recipes/Easy-Shrimp-Scampi-Recipe.jpg	Shrimp Scampi



You have been successfully logged out

Login again?

[Login](#)