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FULL STACK - CASE STUDY RECIPE APP



OVERVIEW



Description

The Recipe App is a user-friendly platform for finding, sharing, and managing recipes. This self-initiated project showcases my full-stack development skills, using Django for the backend and a modern frontend stack. Completed in one month, the app emphasizes robustness, scalability, and aesthetic appeal.



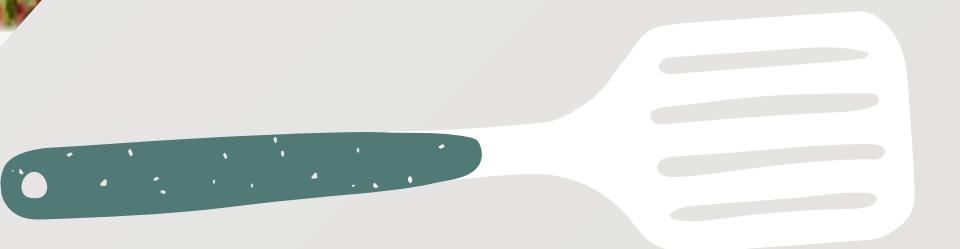
Tools & Technologies

- Django,
 - Python,
 - JavaScript,
 - HTML,
 - CSS,
 - Bootstrap,
 - PostgreSQL,
 - Heroku

[Ratatouille](#)



[Fruit Salad](#)



PURPOSE AND CONTEXT

The Recipe App provides a balanced digital solution for managing and sharing recipes, featuring search, categorization, user authentication, and image uploads. Developed during a coding bootcamp, it showcases my full-stack development skills.



OBJECTIVE



The primary goal was to build a web application where users can:

- Create and manage their own recipes.
- Browse recipes from other users.
- Search for recipes by ingredients, name, or category.
- View detailed instructions and ingredient lists for each recipe.

Create Recipe

Name:

Ingredients:

Cooking time:

Description:

Difficulty:

Pic: No file chosen

[Create](#) [Back to Recipe List](#)

Search Recipes

Recipe name: salad

Chart type:

Results:

Name	Cooking Time	Difficulty
Fruit Salad	7	Easy
Greek Salad	10	Easy
Caprese Salad	10	Medium

Chart:

Bar Chart of Cooking Times

A bar chart titled "Bar Chart of Cooking Times". The y-axis is labeled "Cooking Time" and ranges from 0 to 10. The x-axis is labeled "Recipe Name" and shows three categories: "Fruit Salad", "Greek Salad", and "Caprese S". The bars are blue. The "Fruit Salad" bar reaches a height of 7. The "Greek Salad" bar reaches a height of 10. The "Caprese S" bar reaches a height of 10.

Recipe Name	Cooking Time
Fruit Salad	7
Greek Salad	10
Caprese S	10

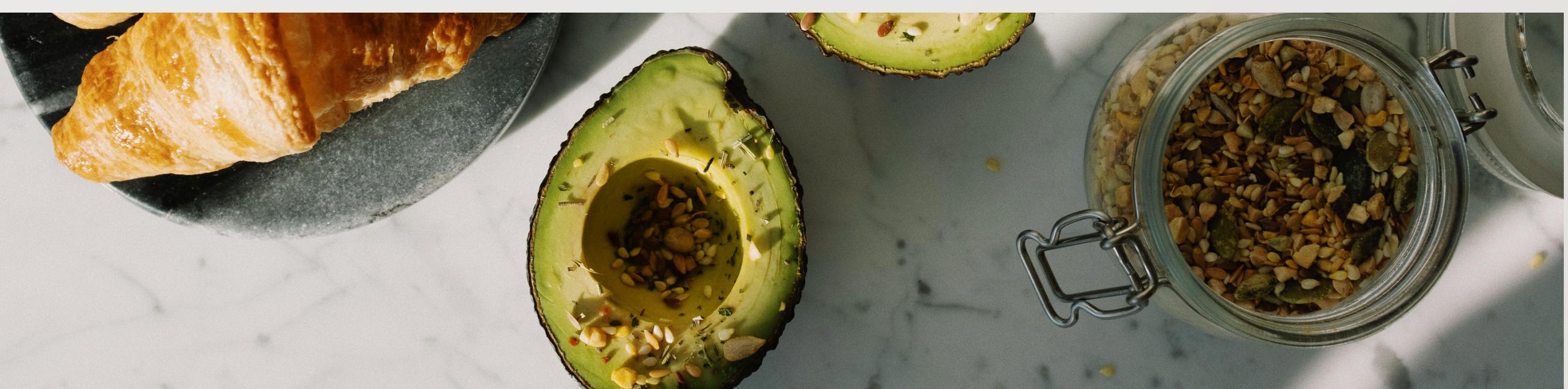
DURATION CREDITS

The project spanned in one month, from initial planning to deployment. It was completed on time, with several enhancements made post-launch based on user feedback.

My role was the full-stack developer, responsible for both the backend and frontend development. The project was completed with the help of my Mentor and Tutor, who provided valuable feedback during the bootcamp.

TOOLS

- Technologies Used: Django, Python, JavaScript, HTML, CSS, Bootstrap, PostgreSQL, Heroku
- Skills Applied: Full-stack development, user authentication, RESTful API design, responsive web design, database management
- Methodologies: Agile development, test-driven development (TDD), continuous integration/continuous deployment (CI/CD)



Process

Planning and Research

The initial phase involved thorough research to identify the key features and functionalities required for the Recipe App. User stories and personas were created to guide the development process.





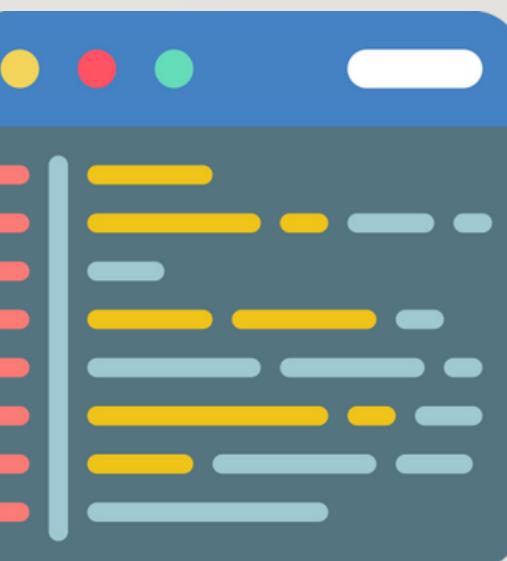
Development

Backend Development

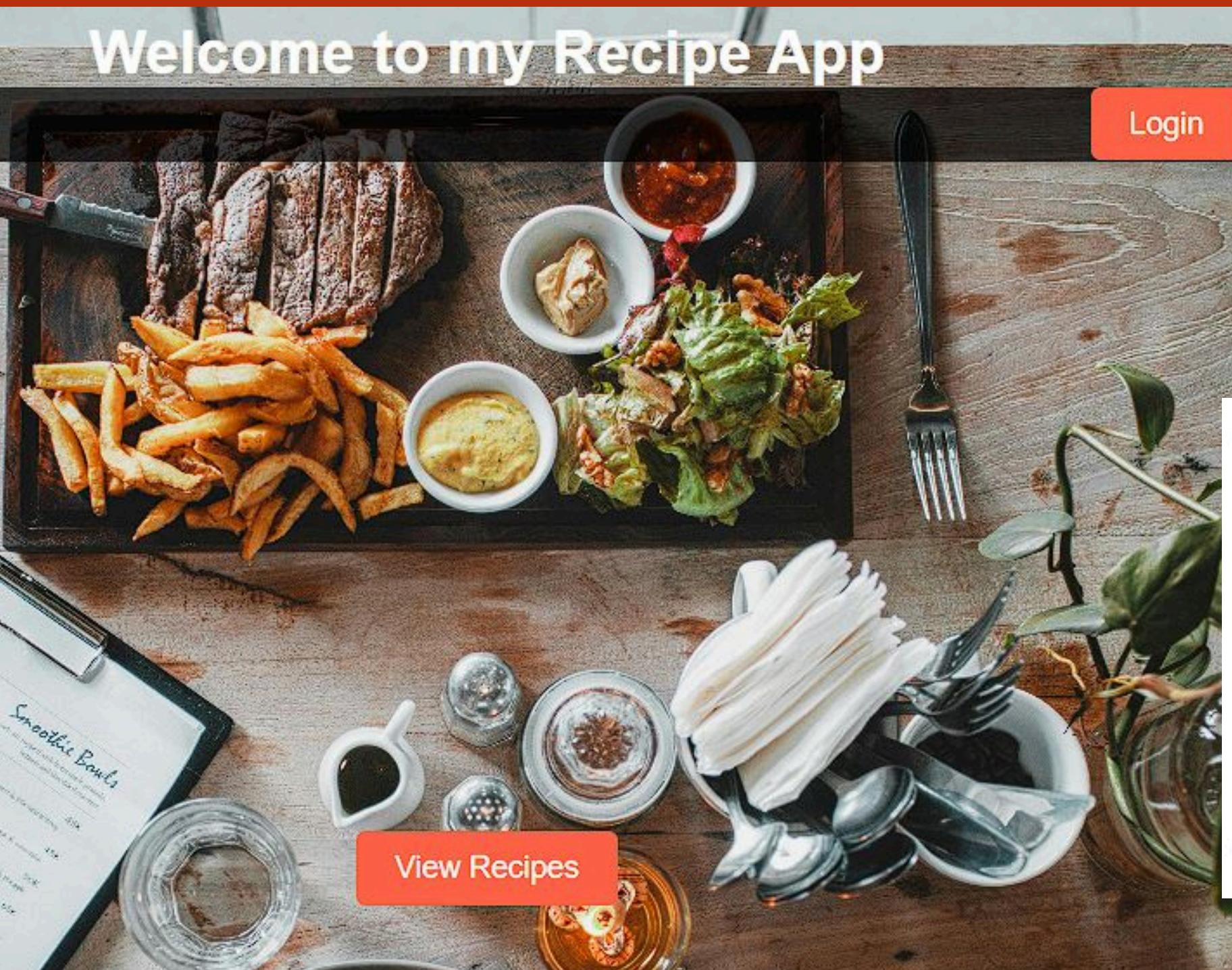
The Django framework was chosen for its robustness and scalability. Models were created for users, recipes, and ingredients. Django's built-in user authentication system was utilized, with additional customizations.

Frontend Development

The frontend was developed using HTML, CSS, and JavaScript, with Bootstrap for responsive design. Django templates were used to render dynamic content.



PAGE VIEWS



Home Page

Login

Username: xxxx

Password:

Login

You've successfully logged out

Thank you for visiting our Recipe App.

Log back in

View Recipes

Login/logout Page

PAGE VIEWS

Search Recipes

Recipe name:

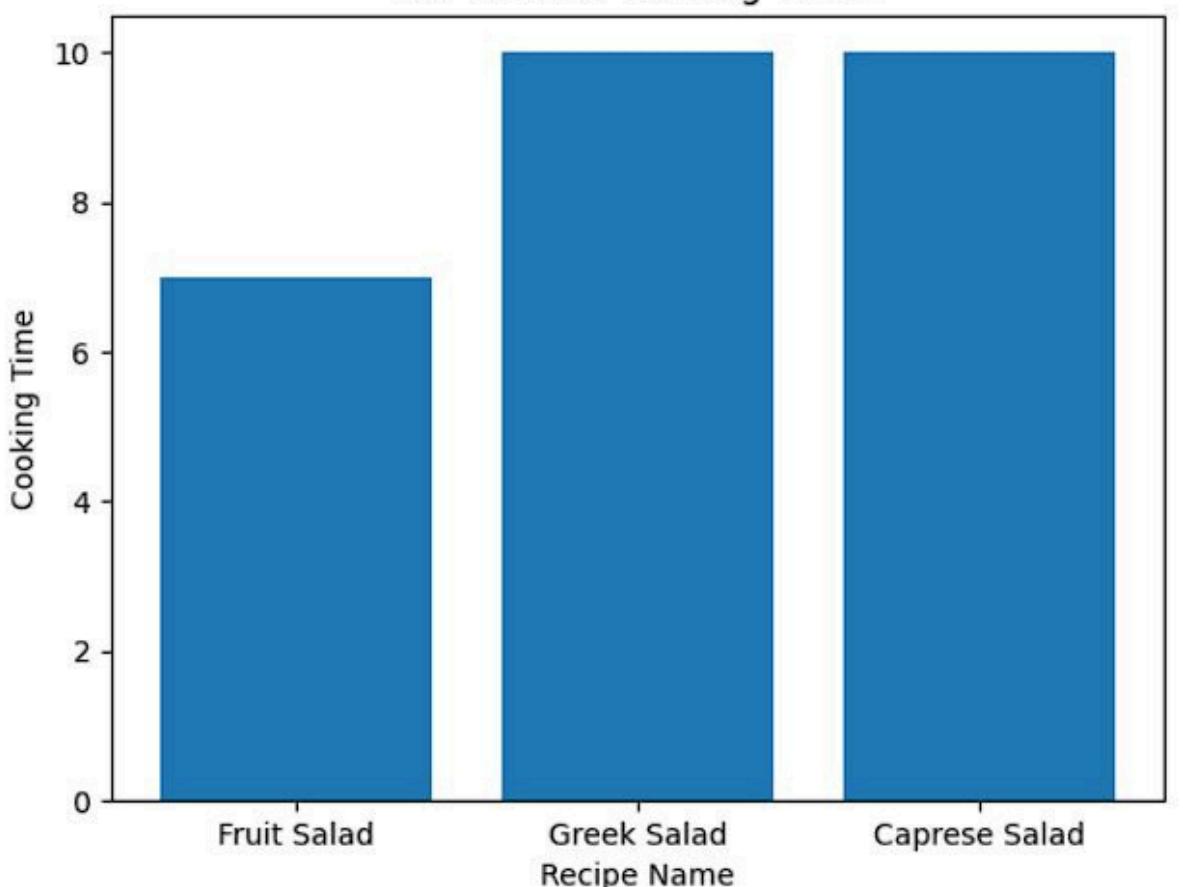
Chart type:

Results:

Name	Cooking Time	Difficulty
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Greek Salad	10	Easy
Caprese Salad	10	Medium

Chart:

Bar Chart of Cooking Times



Recipe List

Recipe Title

Recipe Image



[Ratatouille](#)

Recipe List Page
Search Page

PAGE VIEWS

Create Recipe Page

Fruit Salad



A colorful mix of strawberries, blueberries, grapes, and kiwi, tossed with orange juice, honey, and garnished with fresh mint leaves. Refreshing and naturally sweet.

Ingredients:

- Strawberries
- blueberries
- grapes
- kiwi
- orange juice
- honey
- mint leaves.

Cooking Time: 7 mins

Difficulty: Easy

Recipe Page

Create Recipe

Name:

Ingredients:

Cooking time:

Description:

Difficulty:

Pic: Choose File No file chosen

Create

RETROSPECTIVE

What went well?

The Recipe App successfully integrated key features like recipe search, categorization, and user authentication, providing a seamless user experience.

Future Steps

Plans include adding social sharing, recipe ratings, and comments to enhance user engagement and community building within the app.

What didn't go well

Managing image uploads and ensuring responsiveness across various devices were challenging, highlighting areas for further improvement.

Final Thoughts

The project was a valuable learning experience, successfully meeting primary objectives and laying a solid foundation for future enhancements.