

Recipe Management Application

A Simple API-Driven Recipe Platform

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Introduction

◆ Overview:

- A **recipe management system** that allows users to browse, store, and manage recipes.
- Provides structured **data for recipes, ingredients, and preparation steps**.
- Supports **user authentication** for personalized recipe management.

◆ Core Functionalities:

- 1 **User Management** – Allows users to register, log in, and manage profiles.
- 2 **Recipe Storage** – Stores recipe details, including name, description, ingredients, and steps.
- 3 **Ingredient Tracking** – Provides a structured list of ingredients for each recipe.
- 4 **Recipe Display** – Presents recipes with images, background colors, and descriptions.
- 5 **Mock API Support** – Enables frontend applications to retrieve and display recipes dynamically.

◆ Benefits:

- ✓ Users can **store and access recipes conveniently**.
- ✓ Provides a **well-structured recipe collection** for easy browsing.
- ✓ Can be **expanded to support personalized features** like favorites and recommendations.

Running server on : <http://localhost:4200> (ng serve)

```
PS F:\angular-works\Restaurent_Application> ng serve
✓ Browser application bundle generation complete.
```

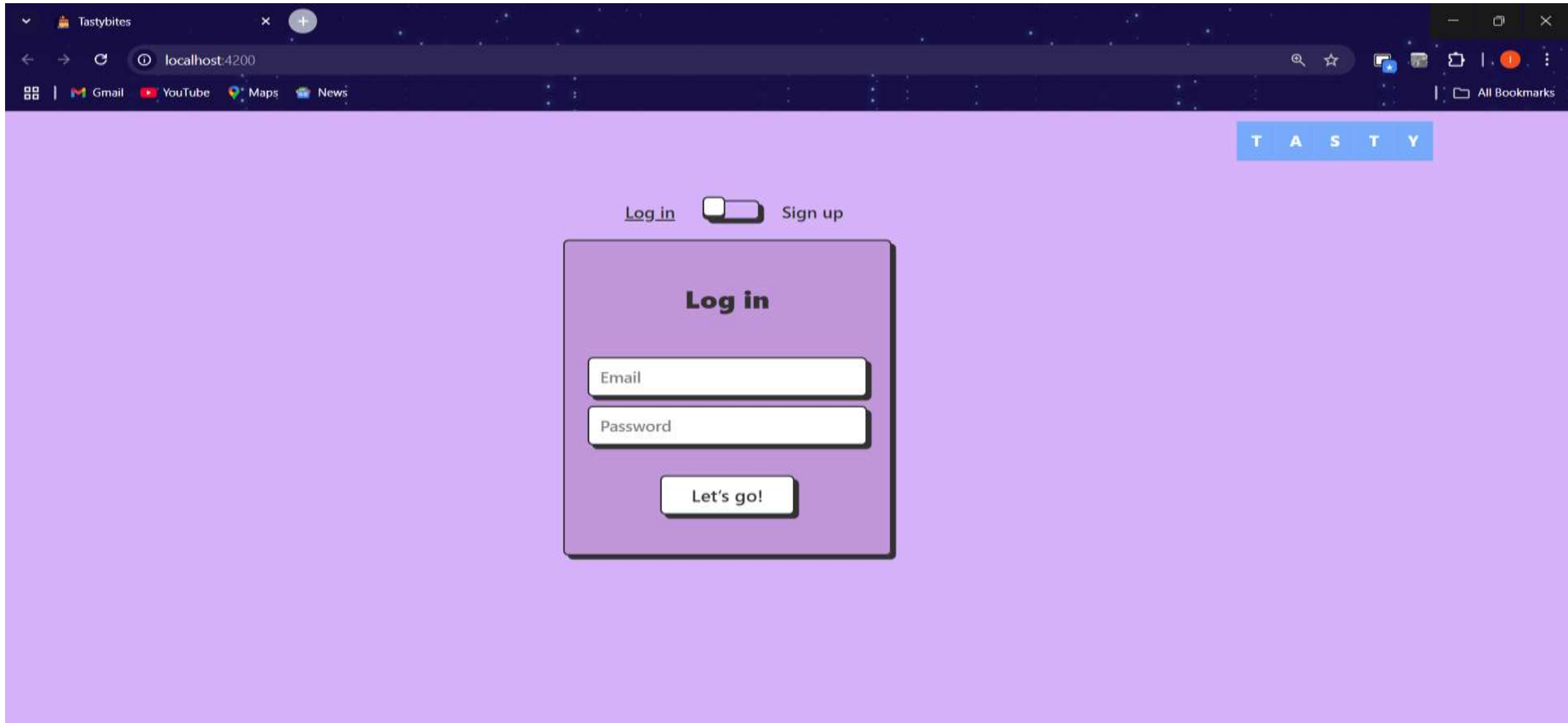
Initial Chunk Files	Names	Size
vendor.js	vendor	2.80 MB
polyfills.js	polyfills	510.58 kB
styles.css, styles.js	styles	383.37 kB
main.js	main	309.15 kB
runtime.js	runtime	6.63 kB
Initial Total		3.98 MB

```
Build at: 2025-03-30T09:50:37.427Z - Hash: 2721ded5a9333289d7d - Time: 3872ms
```

```
** Angular Live Development Server is listening on localhost:4200, open your browser on http://localhost:4200/ **
```

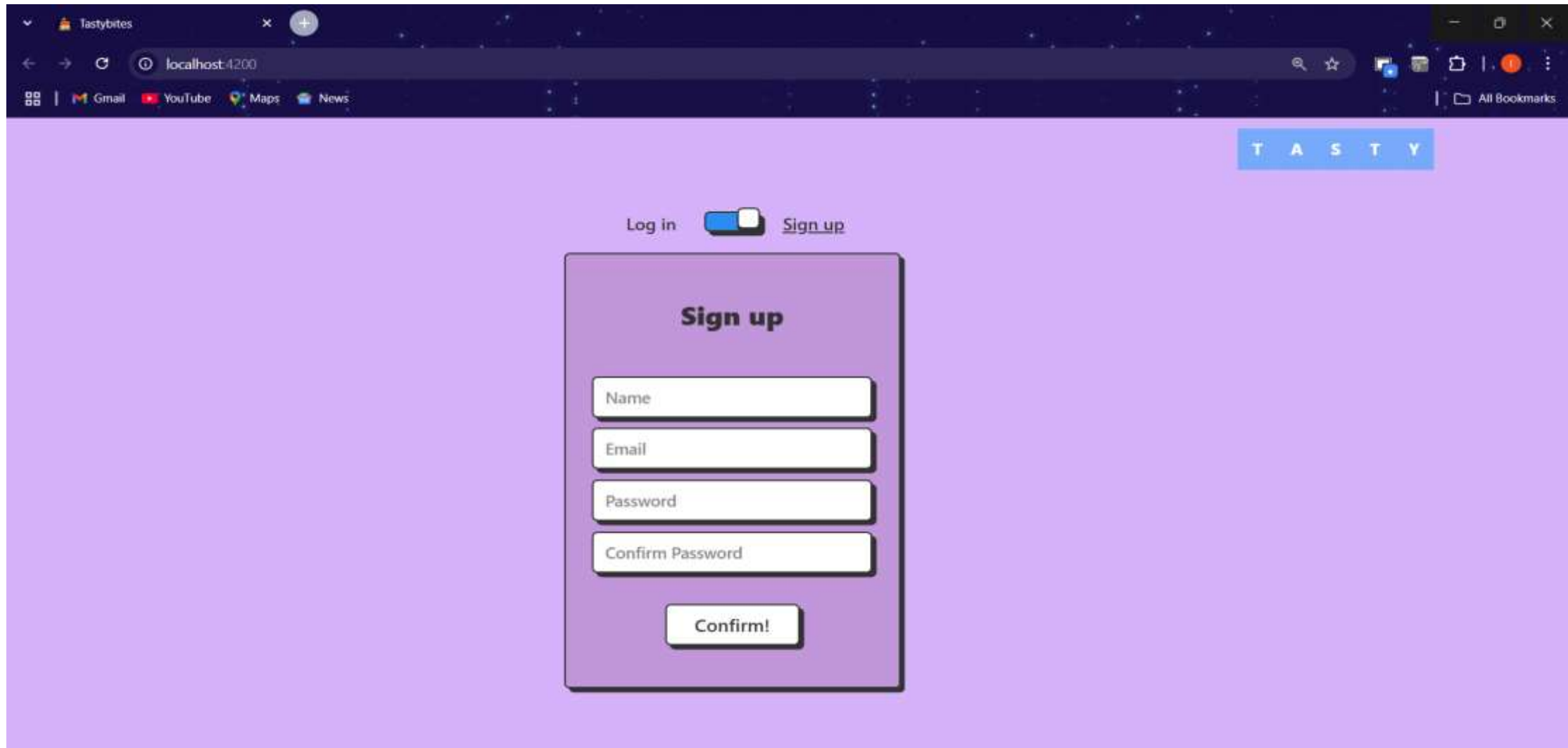
```
✓ Compiled successfully.
```

Login page



Sign- up page

Sign up if you are new user:



The image shows a web browser window with the address bar displaying 'localhost:4200'. The page has a purple background. In the top right corner, the word 'TASTY' is displayed in white letters on a blue rectangular background. Below this, there are two links: 'Log in' and 'Sign up'. The 'Sign up' link is underlined and has a blue toggle switch next to it. Below these links is a light purple rectangular box containing the 'Sign up' form. The form has four input fields: 'Name', 'Email', 'Password', and 'Confirm Password'. At the bottom of the form is a 'Confirm!' button.

TASTY

Log in ☒ Sign up

Sign up

Name

Email

Password

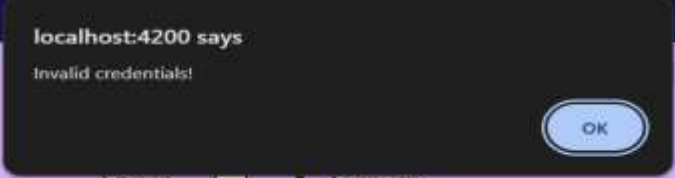
Confirm Password


Confirm!

[Log in](#)  [Sign up](#)

Sign up

- Name should be at least three characters long
- Invalid Email
- Password should be at least 6 characters long

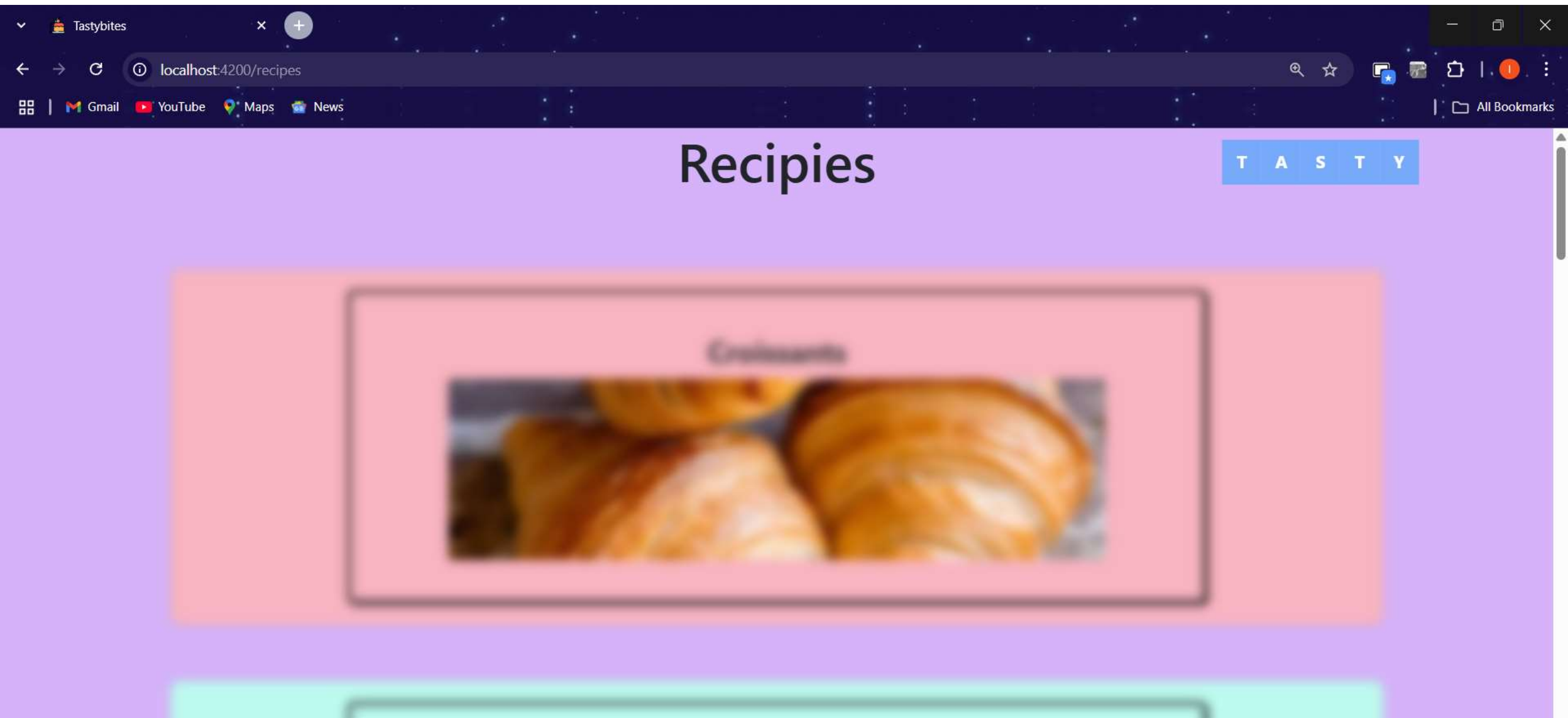

localhost:4200 says
Invalid credentials!

[Log in](#)  [Sign up](#)

Log in

Home page:

After login redirecting to home page:



Recipes

T A S T Y

Croissants



Ingredients

- 2 ¼ tsp active dry yeast
- ¼ cup warm water
- 2 ¾ cups all-purpose flour
- ¼ cup sugar
- 1 tsp salt



T A S T Y



Danish Pastries



- 1 tbsp yeast
- ½ cup milk
- ½ cup butter
- 1 egg
- 1 tsp vanilla

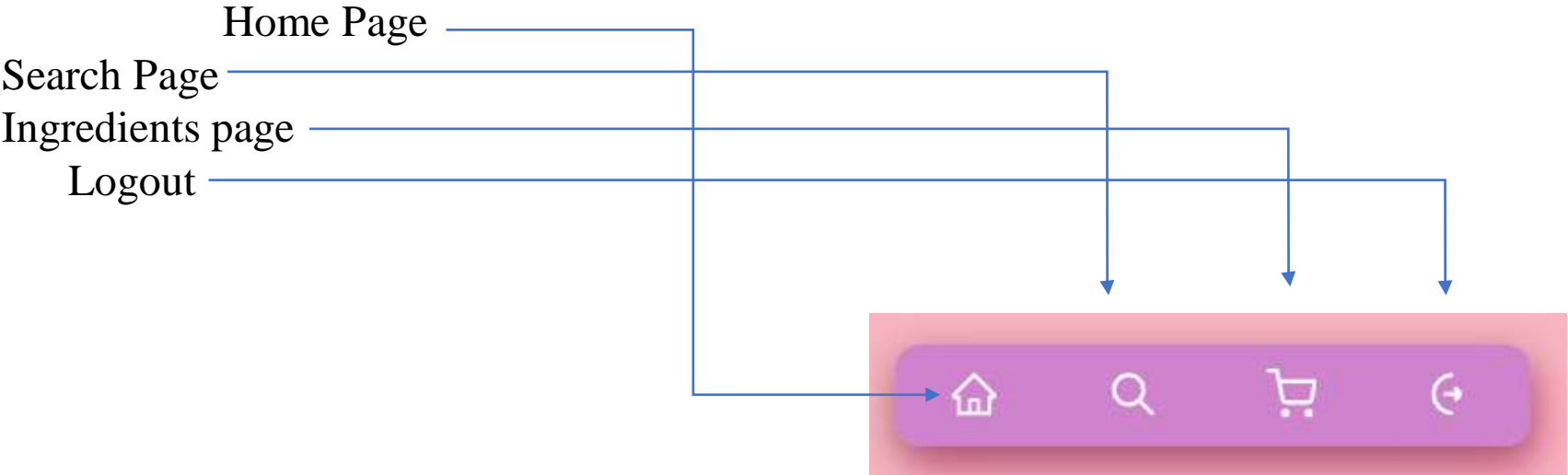
TASTY

Steps

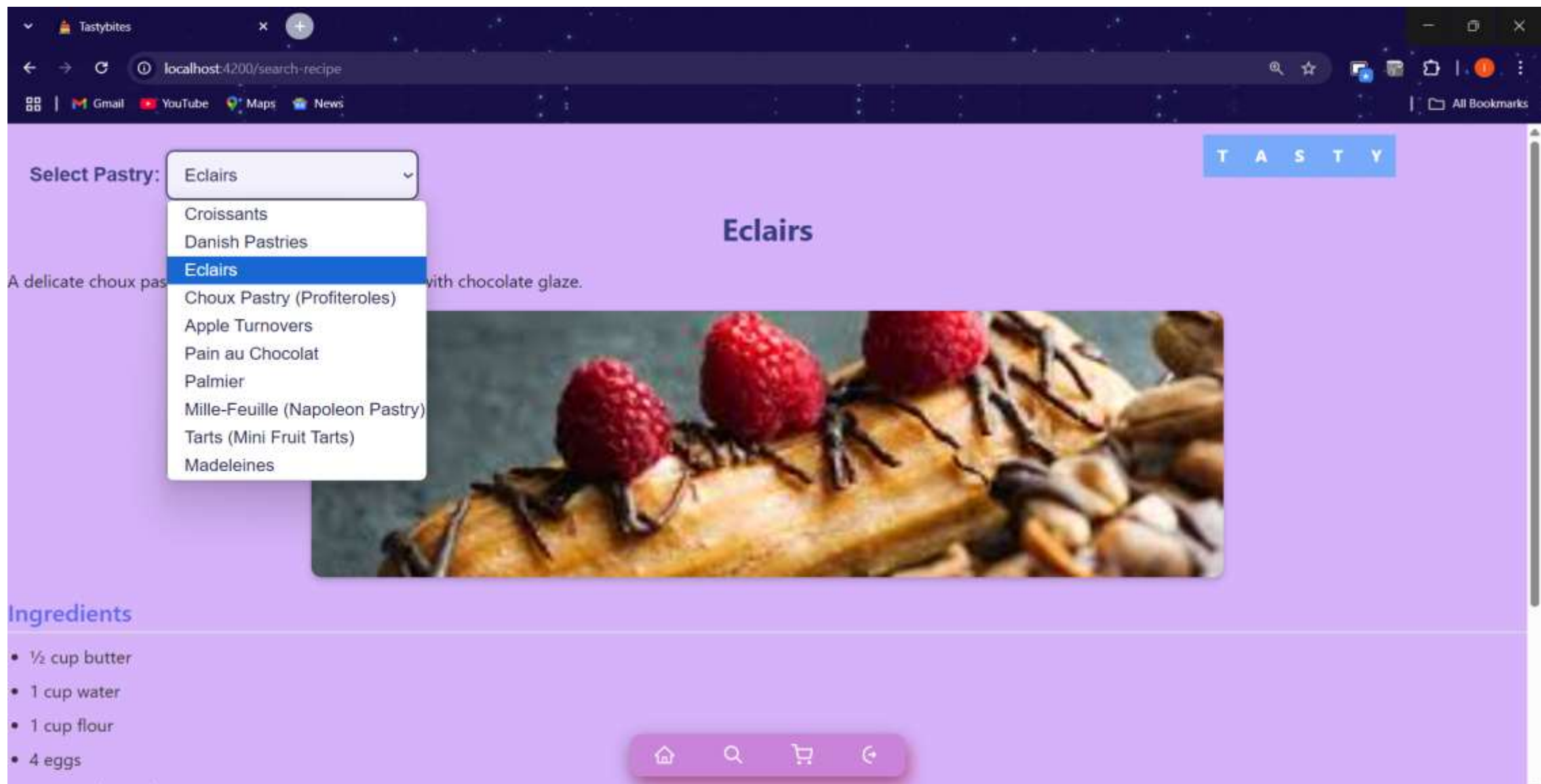
1. Mix yeast, milk, and sugar. Let it sit.
2. Add flour, egg, and vanilla. Knead and chill.
3. Roll and fold with butter layers.
4. Cut and shape into rounds, adding fruit/jam.
5. Let rise, then bake at 375°F (190°C) for 15 minutes.

Add to Ingredient List

Navigation component

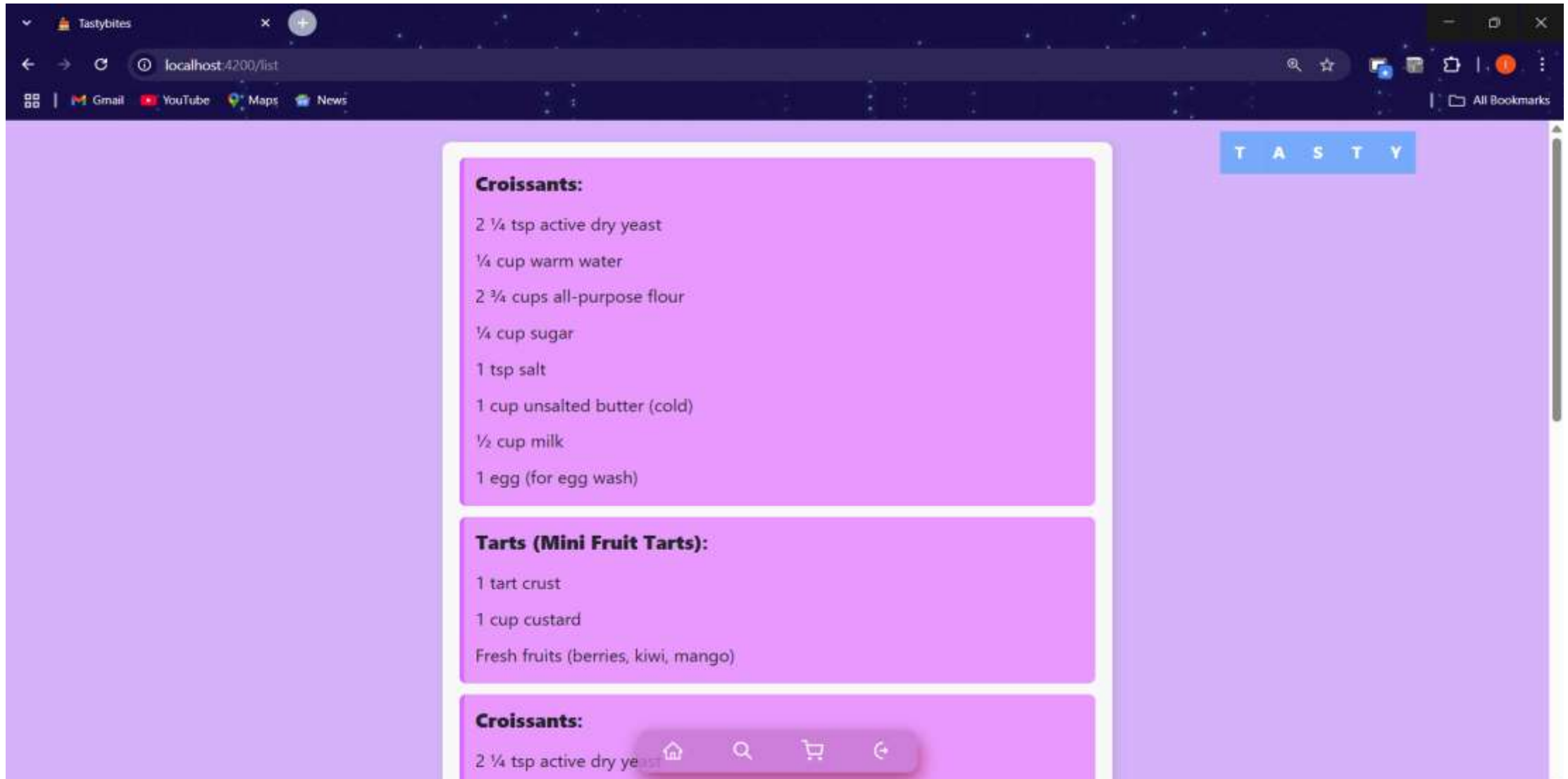


Search page:



Ingredients Page:

This makes it easier for the user to purchase the necessary ingredients.



Key Takeaways

- ✓ **Structured Data Management** – The project provides a well-organized JSON-based dataset for recipes and users.
- ✓ **Mock API for Frontend Development** – It simulates real API calls, making it easy for developers to test frontend applications.
- ✓ **User & Recipe Integration** – Supports user authentication and recipe storage with details like ingredients, steps, and images.
- ✓ **Scalability** – Can be expanded into a full-fledged recipe platform with database and authentication support.
- ✓ **Technology Flexibility** – Works with multiple frontend frameworks like React, Angular, and Vue.

Future Directions

- 🚀 **Database Integration** – Migrate from JSON to a real-time database like Firebase or MongoDB.
- 🚀 **User Authentication & Security** – Implement JWT-based authentication for secure login.
- 🚀 **Advanced Features** – Add features like recipe ratings, user reviews, and personalized recommendations.
- 🚀 **API Optimization** – Refactor redundant data (e.g., streamline the ingredient list) for better efficiency.
- 🚀 **Mobile App Support** – Extend the project to a cross-platform mobile application using Flutter or React Native.

Thank You