

Submission Requirements - Project Write-up

Distinctiveness and Complexity

This Recipe Sharing Platform is distinct in that it combines Django's backend framework with a dynamic JavaScript-powered frontend for live search filtering. It works with a recipe database via api to outsource recipes. The complexity comes from coordinating backend views, models, with frontend interactivity and responsive design.

Design Approach

The app is structured according to Django's MVC (Model-View-Controller) pattern. Models are used for database schema, views for logic, and templates for rendering the interface. We separated templates into namespaced folders. Static files are used for frontend interactivity.

It consists of a search bar styled with javascript that loads recipes.

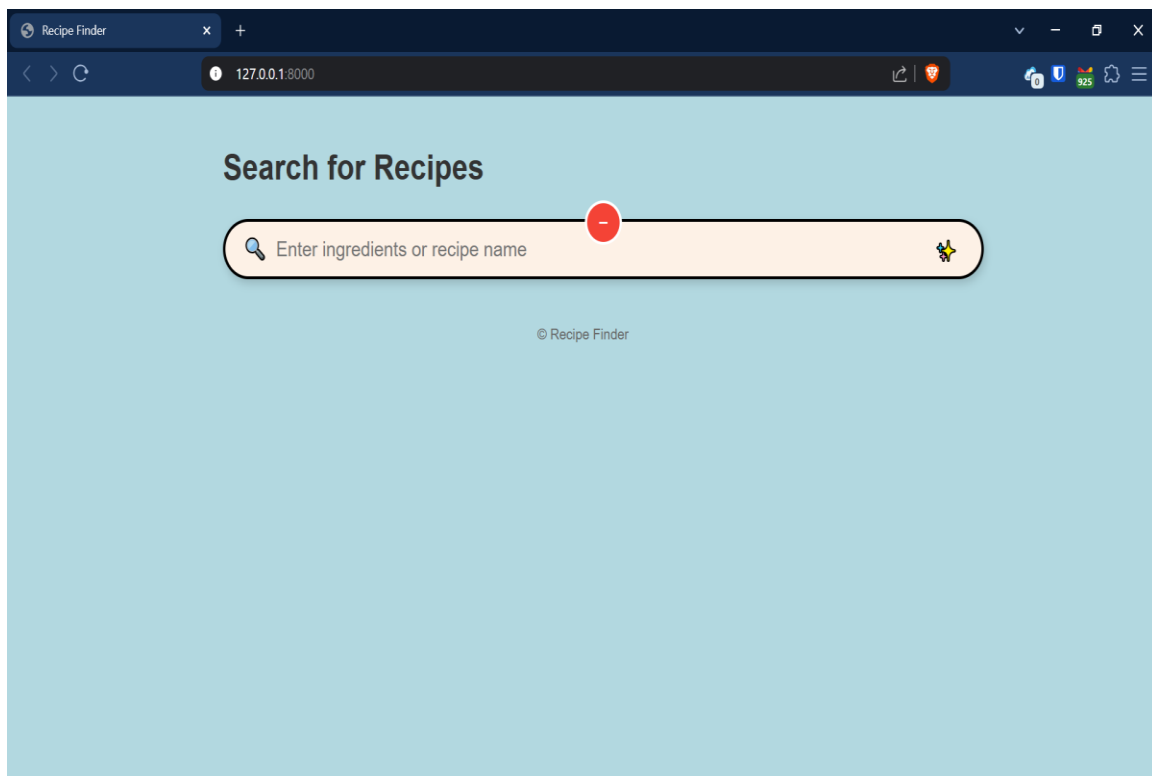


Figure 1: *Web search*

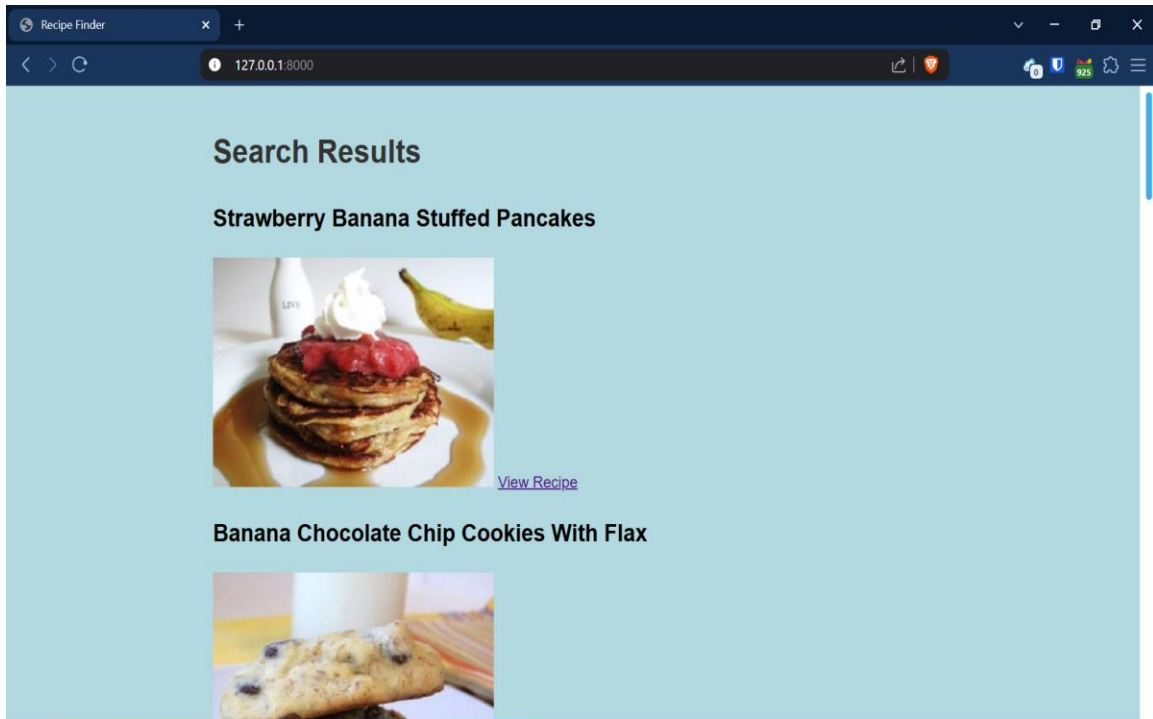


Figure 2:Loaded Results

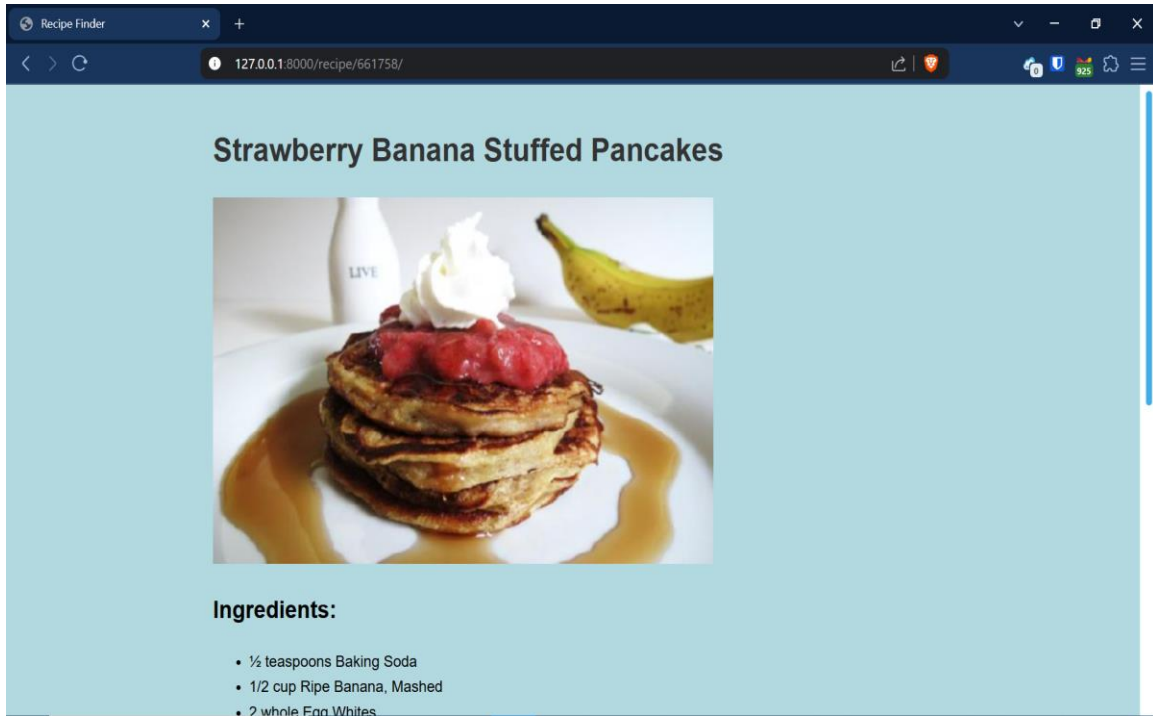


Figure 3:Recipes

File Descriptions

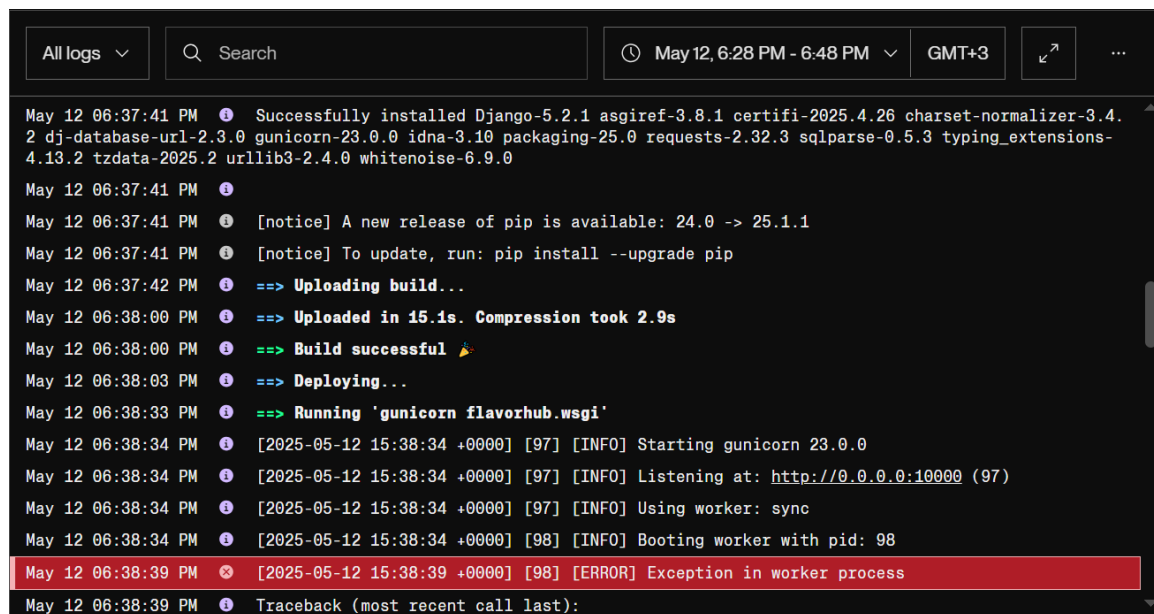
- models.py – Defines the Recipe model.
- views.py – Contains the logic for home, add_recipe, and signup views.
- urls.py – Maps URLs to their respective view functions.
- templates/*.html – Lists various html websites loaded.
- settings.py – Configures template and static directories, and login redirects.

Run Instructions

1. Install Django:
`pip install django`
2. Navigate to the project directory:
`cd flavorhub`
3. Apply database migrations:
`python manage.py migrate`
4. Start the development server:
`python manage.py runserver`
6. Open the site in your browser:
<http://127.0.0.1:8000/>

Errors Encountered

While trying to deploy the website to render for hosting, we encountered a couple of errors that we could not fix. This led us to scrapping the idea.



```
All logs  Search  May 12, 6:28 PM - 6:48 PM  GMT+3  ...

May 12 06:37:41 PM  [i] Successfully installed Django-5.2.1 asgiref-3.8.1 certifi-2025.4.26 charset-normalizer-3.4.2 dj-database-url-2.3.0 gunicorn-23.0.0 idna-3.10 packaging-25.0 requests-2.32.3 sqlparse-0.5.3 typing_extensions-4.13.2 tzdata-2025.2 urllib3-2.4.0 whitenoise-6.9.0

May 12 06:37:41 PM  [i]

May 12 06:37:41 PM  [i] [notice] A new release of pip is available: 24.0 -> 25.1.1
May 12 06:37:41 PM  [i] [notice] To update, run: pip install --upgrade pip
May 12 06:37:42 PM  [i] ==> Uploading build...
May 12 06:38:00 PM  [i] ==> Uploaded in 15.1s. Compression took 2.9s
May 12 06:38:00 PM  [i] ==> Build successful 🎉
May 12 06:38:03 PM  [i] ==> Deploying...
May 12 06:38:33 PM  [i] ==> Running 'gunicorn flavorhub.wsgi'
May 12 06:38:34 PM  [i] [2025-05-12 15:38:34 +0000] [97] [INFO] Starting gunicorn 23.0.0
May 12 06:38:34 PM  [i] [2025-05-12 15:38:34 +0000] [97] [INFO] Listening at: http://0.0.0.0:10000 (97)
May 12 06:38:34 PM  [i] [2025-05-12 15:38:34 +0000] [97] [INFO] Using worker: sync
May 12 06:38:34 PM  [i] [2025-05-12 15:38:34 +0000] [98] [INFO] Booting worker with pid: 98
May 12 06:38:39 PM  [x] [2025-05-12 15:38:39 +0000] [98] [ERROR] Exception in worker process
May 12 06:38:39 PM  [i] Traceback (most recent call last):
```

Additional Info

- JavaScript adds live search filtering to the recipe list.
- Mobile responsiveness is achieved using clean layout and meta viewport.
- The project structure is modular, maintainable, and ready for extension.