



Documentation of MuguCafeFinder: Your Guide to the Best Cafés Nearby



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Introduction

MuguCafeFinder: Your Guide to the Best Cafés Nearby is an intelligent café recommendation system designed to help users easily discover top-rated cafés based on their preferences and location. In a world where café options are abundant, finding the right spot that fits one's mood, taste, and purpose—whether for studying, working, meeting friends, or simply enjoying a quiet coffee—can be overwhelming. MuguCafeFinder simplifies this process by delivering personalized, location-aware suggestions through a user-friendly interface.

By analyzing user inputs and available café data, the system provides recommendations that match each user's unique needs, helping them make quicker and better decisions. Ideal for students, professionals, digital nomads, and casual café-goers, MuguCafeFinder enhances everyday experiences by connecting people with places that suit their vibe, one cup at a time.

System Design

System Architecture

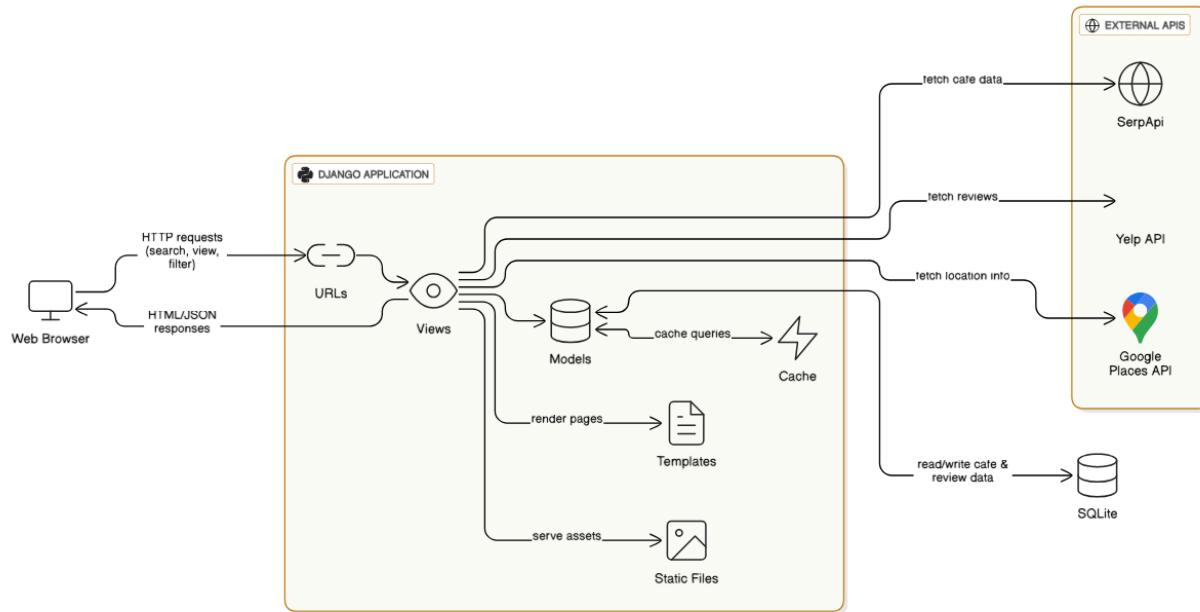


Figure 1: System Architecture

Figure 1. This diagram illustrates the architecture of a Django web application that fetches and displays café data. Users interact through a web browser, sending HTTP requests to Django views via URLs. The views interact with models, templates (for rendering pages), and static files (for serving assets). Data is cached for performance and stored in a SQLite database. The app also integrates with external APIs: SerpApi for café data, Yelp API for reviews, and Google Places API for location info.

Technology Stack

Backend Framework:

Django: A high-level Python web framework that encourages rapid development and clean, pragmatic design.

Programming Language:

Python: The primary programming language used for the backend logic and the Django framework.

**Database:**

SQLite: A C-language library that implements a small, fast, self-contained, high-reliability, full-featured, SQL database engine.

Frontend Technologies:

HTML: For structuring the web pages.

CSS: This is used to style the application's appearance.

JavaScript: For client-side interactivity and dynamic content.

Bootstrap: A popular CSS framework used for responsive design and UI components.

APIs Used:

SerpApi: Used for fetching cafe search results and place information (likely from Google Maps/Places).

Yelp API: Integrated for retrieving business reviews.

App Testing

Various testing methodologies were applied throughout the development process to ensure MuguCafeFinder's reliability, accuracy, and usability. These tests helped identify and resolve issues, ensuring the app met functional requirements and delivered a smooth user experience.

Functional Testing

Functional testing was conducted to verify that all key features of the application work as expected. Test scenarios included:

- Applying filters (e.g., Price, Distance, Rating)
- Retrieving recommended cafés based on user preferences
- Displaying café details and locations
- Navigating between views

Test Case	Expected Result	Actual Result	Status
Filter by Price and Rating	Returns cafés that match selected filters	Café list updated correctly	Passed
Retrieve recommended cafés	Personalized café suggestions are displayed	Results reflected user preferences	Passed
Café detail page loads	Displays name, address, features, and map	All content rendered correctly	Passed
Location access prompt	Request user permission for location	Prompt appears, location is used	Passed
API connection (Google Maps)	Café pins appear accurately on the map	Pins appear with real-time accuracy	Passed

Usability Testing

Usability testing involved observing real users interact with the app. Feedback revealed areas for improvement:

- Users appreciated the clean interface
- Some users requested clearer icons for filters



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- Adjustments were made to improve contrast, spacing, and navigation flow

As a result, the design was revised for better clarity and faster interaction, especially on mobile devices.

Appendix

Wireframe

A wireframe of a website homepage for "Cafe Finder". The header includes a logo with a coffee cup icon and the text "Cafe Finder", followed by navigation links for "Home", "All Cafés", "About", and a prominent orange "Contact" button. The main content area features a large hero section with a background image of a modern coffee shop interior. To the left of the image, the text reads: "Discover Your Perfect Coffee Spot Anywhere in the World". Below this, a subtitle says: "Find the best coffee shops near you, rated by coffee lovers for authentic experiences worldwide." A red "Find Cafes Near Me" button is located at the bottom left of the hero section. To the right of the image, there is a smaller inset image showing a close-up of a coffee cup with steam rising from it.

Best Cafe: Nomu Cafe Jupiter

134 Jupiter, Makati City, 1209 Metro Manila, Philippines

Rating: 4.9 ★ (453 reviews)



[View Details](#)

Top Cafes in Manila



Antipodean Coffee Roasters Legazpi



El Mundo Cafe



Panco Cafe - Legazpi Makati





Cafe Beam

4.6 ★ (214 reviews)

Cafe Beam Unit 1-2 Point A Building, Baluyag, 3006 Bulacan, Philippines

[Website](#)

[View Details](#)



Qizia Cafe

4.5 ★ (786 reviews)

Katipunan Extension, corner Pio del Pilar St, Marikina City, 1801 Metro Manila, Philippines

[View Details](#)

MuguCafe

Discovering great coffee spots across the World

Quick Links

[About Us](#)

[Contact](#)

[FAQs](#)

Follow Us

[Facebook](#) [Instagram](#) [Twitter](#)

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Figure 2: Home Page

 **Cafe Finder**

[Home](#) [All Cafés](#) [About](#) [Contact](#)

Find Cafes Near You

[Search](#)

[Use My Location](#)

Price Range

All P PP PPP

Filters

Sort By

Rating Open Now Show only open cafes

Cafes in Your Area



₱200–400

Café Singko

4.9 ★ (65 reviews)

Coffee shop

[View Details](#) [Open in Google Maps](#)



₱200–400

Kat's Café

4.6 ★ (187 reviews)

Cafe

[View Details](#) [Open in Google Maps](#)



₱200–400

Unit L, MJ Square Building, BF Resort Drive, BF Resort Village, Los Pinos City, 1747 Metro Manila, Philippines

+63 920 982 3206

[View Details](#) [Open in Google Maps](#)



₱200–400

B.F. Resort, Abel Nosie, corner Via Del Immaculata, village, Los Pinos City, Metro Manila, Philippines

+63 2 8872 0225

[View Details](#) [Open in Google Maps](#)

Figure 3: All Cafe Page

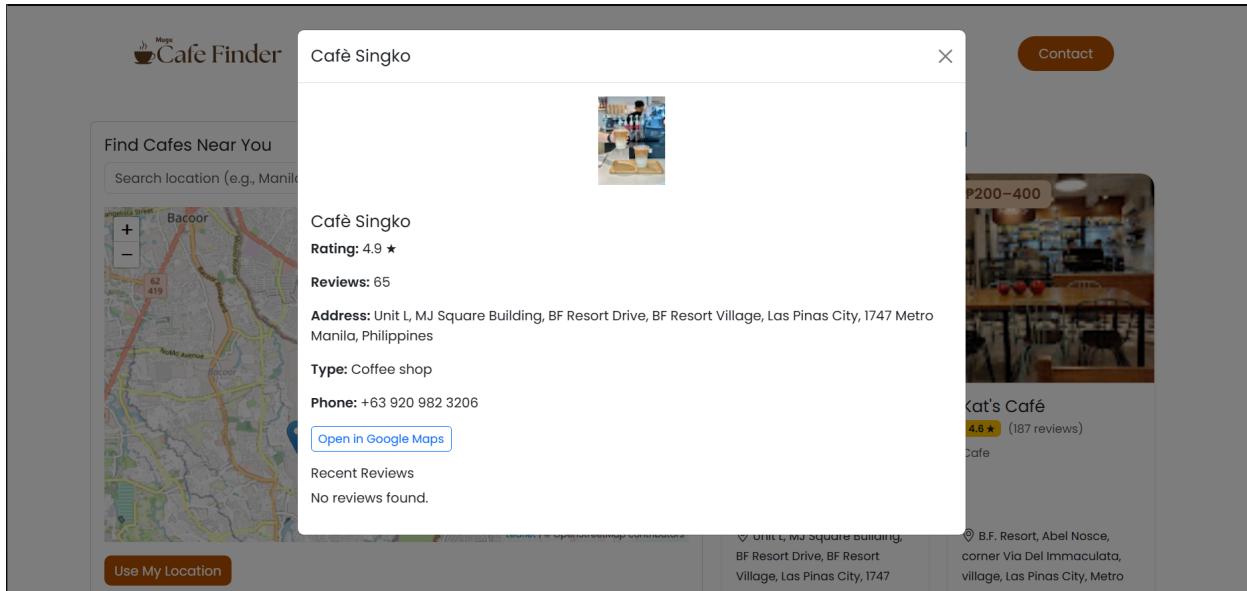


Figure 4: Viewing Details Page

About MuguCafe Finder

MuguCafe Finder is your go-to platform for discovering the best coffee spots across the Philippines. Whether you're a coffee enthusiast, a digital nomad, or just looking for a cozy place to relax, our app helps you find cafés that suit your needs.

Our Mission

We aim to connect coffee lovers with unique and high-quality cafés, making it easy to explore new places and share experiences. Our curated listings, user reviews, and smart filters ensure you always find the perfect spot.

Features

- Search for cafés by location and features
- Read reviews
- View café details, photos, and ratings
- Discover top-rated and work-friendly spots

Contact Us

If you have questions, suggestions, or want to partner with us, please [contact us here](#).

Figure 5: About Page

Tasks and Responsibilities of each member

Team Member	Role	Responsibilities
Alimurong, Hillary Jade Borre, Nicolette Panganiban, Neil Simon	Frontend Developer, Backend Developer	<ul style="list-style-type: none"> - Developed the app's user interface - Implemented filter, search, and navigation features - Ensured mobile responsiveness - Built the recommendation logic and API endpoints - Integrated Google Maps API and location-based services - Handled data filtering and responses
Lopez, Erica Josef	UI Designer, Documentation	<ul style="list-style-type: none"> - Designed the user interface and overall layout - Assisted in documentation writing