Menu-Mystery: A PWA for Japanese Restaurants Exploration in Paris

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Menu-Mystery, a bilingual (English and French) Progressive Web Application, introduces a fresh approach to discovering Japanese restaurants in Paris. Powered by a sophisticated tech stack, including PostgreSQL, Python with Flask, NGINX, HTML5, CSS, JS, and TensorFlow, it provides a unique and engaging experience. Beyond conventional features, the platform includes innovative functionalities such as a randomized selection of food types and associated restaurants, along with food recognition and chopstick proficiency analysis, adding an extra layer of enjoyment to restaurant exploration.

Features

1-Restaurant Explorer

User-friendly cards provide **detailed information about japanese restaurants**, including descriptions, prices, and the types of food they offer. Users can **filter** restaurants based on name, food type, and price.

2-Accounts and Foodlists

Menu-Mystery allows users to **create accounts**, enabling them to **save their favorite restaurants** in personalized foodlists associated with their profiles.

3-Gashapon Mode

The Gashapon mode **randomly selects a food type**, redirecting users to the restaurant explorer **filtered** by the chosen category.

4-Food recognition & Chopstick proficiency test

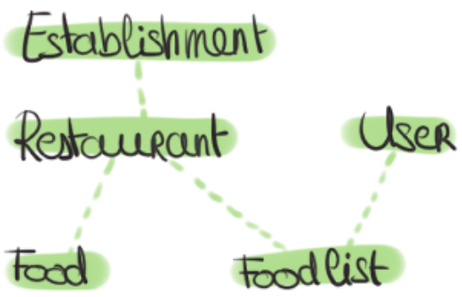
A **machine learning-based food recognition tool** enables you to quickly identify the name of the dish you capture in a photo. Utilizing the same technology, the application includes **a training program to properly hold chopsticks**, facilitating the acquisition of good dining practices.

Tech Stack

Database

PostgreSQL

A powerful relational database management system handling data storage for restaurant information and user accounts.



Back-end

Flask, a micro-framework for web development in Python, forms the backbone of the back-end. It orchestrates the **communication between the front-end and the PostgreSQL database**. **Python** is used to execute queries to the database, ensuring seamless integration and efficient data retrieval.

Flask — web development, one drop at a time

python

docker

Front-end

- **HTML5, CSS, and JS** (Jquery) : interface.
- **NGINX** web server software, optimizing performance through load balancing and caching.
- **Tensorflow** (coco-ssd model) : recognition

TensorFlow

GITHUB

APP

Perspectives

Expand the database, enhance the sensitivity and content of chopstick proficiency training, and increase the number of food classes recognizable by the recognition model.

We would be more than happy to give you a demonstration of our app!

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