**Restaurant Name Generator Documentation**

**Project Overview**

This project is a web application designed to generate creative restaurant names and menu items based on a selected cuisine. The app leverages cutting-edge technologies, including **LangChain**, **OpenAI's GPT-3**, and **Streamlit**, to deliver a dynamic and interactive user experience. These tools allow for the seamless integration of language models into a user-friendly web interface, making it easy to generate personalized restaurant names and menu suggestions.

**Tagline:**

"Harnessing the power of AI and LangChain for intelligent restaurant branding and menu creation."

**Tools & Libraries:**

Python: The programming language used for development.

Streamlit: For creating the interactive web interface.

LangChain: To manage the sequence of operations for generating names and menu items.

OpenAI GPT-3: The language model powering the text generation.

**Environment Setup:**

Created a virtual environment using Python’s venv.

Installed necessary packages including streamlit, openai, and langchain.

**API Key Configuration**

Action:

Set up your OpenAI API key in the environment to authenticate requests to the GPT-3 model.

**LangChain Helper Function**

Action:

Created a helper function to generate both the restaurant name and menu items based on the selected cuisine.

**Result:**

A fully functional web app that allows users to generate creative restaurant names and corresponding menu items based on their cuisine choice, with a polished, user-friendly interface.