Pizza Management System Documentation

Prerequisites

---

1. Install Python

Make sure Python (version 3.8 or newer) is installed on your system.

If not, download and install it from the official website:

https://www.python.org

2. Install Required Package (colorama)

Your system uses the colorama library to add color formatting to the console output.

Open your Command Prompt (Windows) or Terminal (Mac/Linux) and run the following command:

Project Setup

---

1. Prepare Folder Structure

The project uses a standard multi-layer architecture. You must create the following directories and ensure all Python and CSV files are placed exactly as shown below:

- main_app.py is in the root directory.
- The folder business_layer/ contains all business logic files (ingredient_manager.py, pizza_manager.py, order_processor.py, etc.).
- The folder data_layer/ contains csv_data_loader.py.
- The folder Dataset/ contains all five CSV files.

2. Save the Python Files

Save the provided Python files into their respective directories:

3. Prepare the Dataset Folder

Inside the project_root directory, ensure the folder named Dataset is created. Place the following five data files inside this folder:

- ingredient_inventory.csv
- pizza_dataset.csv
- standard_menu.csv
- customizable_ingredients.csv
- side_dish_menu.csv

The program will not run correctly unless the folder name and file names match exactly.

Steps to Execute the Program

---

1. Navigate to the Project Root

Open your Command Prompt or Terminal and navigate to the project_root directory (the directory containing main_app.py, business_layer, and Dataset).

2. Run the Main Application

Execute the application by running the main_app.py file with Python:

The system will initialize all managers, load data from the CSV files, and then present the main menu for interaction.