1. Extract the ZIP

Unzip the file discount\_service\_with\_frontend.zip. Inside, you’ll find:

main.py (FastAPI backend)

requirements.txt

Dockerfile

test\_main.py

index.html (frontend)

README.md

2. Option A – Run Using Python

a. Install dependencies

Make sure Python 3.10+ is installed.

Open terminal inside the folder and run:

pip install -r requirements.txt

b. Start the FastAPI server

uvicorn main:app --reload

The API will start at: http://localhost:8000

c. Open the frontend

Double-click or open index.html in your browser.

> Important: The HTML uses localhost:8000 to send requests. Make sure the server is running before clicking "Calculate."

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3. Option B – Run Using Docker (optional)

If you prefer Docker:

a. Build the Docker image

docker build -t discount-service .

b. Run the container

docker run -p 8000:8000 discount-service

Then open index.html in the browser as before.

4. Run Unit Tests

Make sure the FastAPI server is not running, then execute:

pytest test\_main.py

Let me know if you'd like to turn this into a hosted web app or enhance the frontend with better UI features.