# MEGAVENTORY INTERNSHIP

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## General:

- This project was written in Python 3.10

- The project is consisted of 8 source files:
  - ***api.py:*** contains a class that acts as an interface/handler for the API endpoints.
  - ***product.py, supplier_client.py, inventory_location.py, tax.py, discount.py, sales_order.py:*** all these files contain the classes that represent the required Megaventory entities.
  - ***main.py:*** This file is a simple script that creates the given dummy entities and sends/inserts them in my Megaventory account via the Megaventory API.

## Design:

- The names of the classes' attributes are the same as the ones that the API uses to send/receive them. This was done to make the mapping of every class object to a json string easier.

- When it comes to the API, the ***perform_action()*** method of the ***API*** class is the one responsible for sending/inserting objects through the API. It was designed in a way that can handle all ***mvRecordActions*** regardless of the given entity's type. Although, for the purposes of this project, only the ***Insert*** action was implemented.

- For the ***SalesOrder*** class a ***get_total_value()*** method was implemented to calculate and return the total selling value of all products in a ***mvSalesOrder*** and optionally to apply a tax value (%) and a discount value (%).