Project 1 Home Inventory Application

Objectives

- Create and execute a Python program
- Use git and GitHub to establish and maintain source code version control
- Use Python data structures to include:
 - Lists
 - Dictionaries
- Use an established project structure to organize your source code
- Apply industry best practices in formatting your source code
- Apply fundamental object-oriented programming concepts to implement your program
- Receive and process user data input
- Persist application data to files using JSON
- Read application data stored in JSON files

Basic Requirements

- Adopt and expand upon provided project template
- Use pipenv to manage project library dependencies and to execute project in a virtual environment
- Modify the build.sh bash script as required to automate complex commands
- Use 3rd party libraries to help validate and format your source code

Project Specification

Write a Python console application that allows you to enter, search, display, and save home inventory data. Provide a text-based menu that allows a user to:

- Start a new inventory
- Read inventory from file
- Save inventory to file
- Add items to active inventory
- Search inventory
- Display inventory

Hints

Think in terms of objects your application will need and their interactions. For example, one class might be called InventoryItem and be responsible for representing the data associated with one inventory item. Explore the use of the @dataclass decorator: https://docs.python.org/3/library/dataclasses.html