**1. General ModuleNotFoundError (Missing Python Libraries)**

**These errors occurred because a required Python package was not installed in your active virtual environment.**

* **Error Messages:** 
  + **ModuleNotFoundError: No module named 'pyotp'**
  + **ModuleNotFoundError: No module named 'dotenv' (for python-dotenv)**
  + **ModuleNotFoundError: No module named 'logzero'**
  + **ModuleNotFoundError: No module named 'websocket' (from websocket-client)**
* **Cause: The specific Python package required by your code or a dependency (like smartapi-python) was not installed in your (venv).**
* **Fix:** 
  + **Activated the virtual environment: (venv) PS C:\path\to\your\bot>**
  + **Used pip install for each missing package:** 
    - **pip install pyotp**
    - **pip install python-dotenv**
    - **pip install logzero**
    - **pip install websocket-client (which provides the websocket module)**

**2. Error: ModuleNotFoundError: No module named 'smartapi' (Initial, Persistent)**

* **Cause:** The main smartapi-python library was either not installed correctly, or Python couldn't find it. Initial attempts with just smartapi were problematic; smartapi-python is the correct package name.
* **Fix:** Ensured the virtual environment was active and then installed the correct package name. We also verified Python interpreter paths (sys.executable) and package installation locations (sys.path) to confirm the setup was logically correct.

Bash

pip install smartapi-python

**3. Error: ModuleNotFoundError: No module named 'smartapi' (Due to Case Sensitivity)**

* **Cause:** Even after smartapi-python was installed, the specific module folder created in site-packages was SmartApi (with a capital 'S' and 'A'), but the import statement in src/api.py was from smartapi import SmartConnect (all lowercase 's' and 'a'). Python imports are case-sensitive.(I fixed this not gemini lol)
* **Fix:** Corrected the import statement in src/api.py to match the actual installed module name.

Python

# In src/api.py, changed:

# from smartapi import SmartConnect

# To:

from SmartApi import SmartConnect

**4. Error: Configuration error: Missing one or more Angel One API credentials in .env file. (First Occurrence - Naming Mismatch)**

* **Cause:** Your .env file used specific variable names (e.g., ANGELONE\_CLIENT\_ID, ANGELONE\_USERNAME), but the ConfigManager class in src/config.py was looking for different names (e.g., API\_KEY, CLIENT\_CODE).
* **Fix:** Modified src/config.py to read the exact variable names that were present in your .env file.

Python

# In src/config.py, in ConfigManager.\_\_init\_\_():

# Changed lines like:

# self.api\_key = os.getenv("API\_KEY")

# self.username = os.getenv("CLIENT\_CODE")

# To:

self.api\_key = os.getenv("ANGELONE\_CLIENT\_ID")

self.client\_secret = os.getenv("ANGELONE\_CLIENT\_SECRET") # Added

self.redirect\_uri = os.getenv("ANGELONE\_REDIRECT\_URI") # Added

self.username = os.getenv("ANGELONE\_USERNAME")

self.password = os.getenv("ANGELONE\_PASSWORD")

self.totp\_secret = os.getenv("ANGELONE\_TOTP\_SECRET")

**5. Error: Configuration error: Missing one or more Angel One API credentials in .env file. (Second Occurrence - Empty .env File)**

* **Cause:** Despite the correct variable names in src/config.py, the .env file itself was completely empty (0 KB), meaning python-dotenv had no data to load. Also, some values had accidental leading spaces.
* **Fix:** Pasted the full, correct .env content into the .env file and **crucially, saved the file**, ensuring its size was no longer 0 KB. Also, removed any accidental spaces around the = sign in the values.
* # Example of correction in .env:
* # From: ANGELONE\_USERNAME= A58519592
* # To: ANGELONE\_USERNAME=A58519592

**6. Error: SmartConnect.\_\_init\_\_() got an unexpected keyword argument 'secret\_key'**

* **Cause:** The SmartConnect constructor in the SmartApi library only expects the api\_key argument for basic initialization. We were incorrectly passing secret\_key and redirect\_url directly to its constructor, which it doesn't accept.
* **Fix:** Modified src/api.py to initialize SmartConnect with only the api\_key.

Python

# In src/api.py, in AngelOneAPI.login():

# Changed:

# self.smartapi = SmartConnect(api\_key=self.config.api\_key, secret\_key=self.config.client\_secret, redirect\_url=self.config.redirect\_uri)

# To:

self.smartapi = SmartConnect(api\_key=self.config.api\_key)