### **Project Setup Instructions for Mac**

#### **1. Download Input Files**

* Download the input files for **USA** and **Canada** and extract them to a location of your choice.

#### **2. Download DataLoader Scripts**

* Download the **DataLoader Python scripts** and extract them to a location of your choice.

#### **3. Ensure Python 3.12 or Above is Installed**

Check Python installation:  
python3 --version

If Python 3.12 or above is not installed, install it via [Homebrew](https://brew.sh/):  
brew install python

#### **4. Set Up Python Environment**

Open the **Terminal** and navigate to your Python installation directory (if needed):  
Example:/usr/local/bin/python3

#### **5. Install Required Packages**

Use **pip** to install the required packages:  
pip3 install pyodbc pandas

If **pip** is not recognized, ensure it's installed with:  
python3 -m ensurepip --upgrade

If you encounter issues, verify your PATH includes Python scripts:  
Export PATH=$PATH:/Library/Frameworks/Python.framework/Versions/3.x/bin

#### **6. Update Loader.py File**

* Open the Loader.py file from the **DataLoader** folder in a text editor (e.g., **VS Code**).

Update the input paths for the **USA** and **Canada**, replacing them with your local paths. Use forward slashes (/) for Mac:  
dir\_path\_usa = '**/Users/vijay/Desktop/Vijay/USA/**'

dir\_path\_can = '**/Users/vijay/Desktop/Vijay/Canada/**'

#### **7. Update SqlHelper.py File**

Open the SqlHelper.py file and update the **server** name at line 6 with your database server details:  
server = 'localhost'

#### **8. Update appsettings.json**

* Open the **Visual Studio solution** and navigate to appsettings.json.

Update the **connection string** to match your local SQL server. Example:  
  
"ConnectionStrings": {

"DefaultConnection": "Server=localhost;Database=MyAppDb;User Id=sa;Password=MyStrongPass123;"

}

#### **9. Update MYAppDbContext.cs**

Open the MYAppDbContext.cs file under the **Model** folder and update the server name at line 22:  
optionsBuilder.UseSqlServer("Server=localhost;Database=MyAppDb;User Id=sa;Password=MyStrongPass123;");

#### **10. Update StockReportRepository.cs**

* Open StockReportRepository.cs and make the following changes:

Update line 41 with the Python interpreter path:  
string pythonInterpreter = @"/usr/local/bin/python3";

Update line 47 with your loader.py path:  
string scriptPath = @"/Users/vijay/Desktop/Vijay/DataLoader/Loader.py";

#### **11. UI Setup**

To set up and run the Angular application:

**1. Install Node.js**:  
brew install node

**2. Install Angular CLI**:  
npm install -g @angular/cli

**3. Set Execution Policy** (Mac doesn’t require PowerShell commands like Windows).

**4. Install Required Python Packages**:

pip3 install pyodbc numpy pandas

**5. Run Angular Application**:

* Navigate to the Angular project directory:  
  cd stockreport.client
* Install dependencies:  
  npm install
* Build and serve the Angular application:  
  ng build

ng serve

Open the provided URL in your browser (usually http://localhost:4200).