

## 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.
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### 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](#):

```
brew install python
```

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### 4. Set Up Python Environment

Open the **Terminal** and navigate to your Python installation directory (if needed):

Example: `/usr/local/bin/python3`

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### 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
```

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### 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/'
```

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## 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'
```

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## 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;"  
}
```

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## 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;");
```

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## 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";
```

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## 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>).

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