

INSTALLATION GUIDE

System Requirements

Linux Ubuntu version 22 or higher

How to Use the Application

Follow these steps to install and use the tools required for this application.

Step 1: Download the Test Dataset

- The dataset is a Excel file (.xlsx) Download it from this link.
- https://docs.google.com/spreadsheets/d/18PDQisLKwPPH6GI7v5bCzYzUsiKmlGs_WYOzksPh5eM/edit?usp=sharing

Step 2: Download and Set Up Neo4j Desktop

1. Download Neo4j Desktop version 1.5.9 from Neo4j Download Page.
<https://neo4j.com/download/>
2. Fill out the form, click "Download Desktop," and copy the provided activation code.
3. Create a project and local DBMS:
 - Click on Add > Local DBMS.
 - Choose any name and set the password to 12345678.
 - Select version 5.17.0 and click Create.
 - Select the project, go to the Plugins tab, install APOC, and then click Start.
 - (Optional) Run `:config autoComplete:false` in the query to hide unrelated relationships.

Step 3: Install Chromedriver

1. Since the project uses automated web tests with Selenium WebDriver and Google Chrome, you need to install Chromedriver:
2. Install Google Chrome (if not already installed).
3. Check your Chrome version: Open Chrome, go to Settings > About Chrome to find the version.
4. Download the matching ChromeDriver from ChromeDriver.
5. Unzip the downloaded file and move it to `/usr/bin/`:

```
sudo mv chromedriver /usr/bin/  
  
sudo chmod +x /usr/bin/chromedriver
```

6. Verify the installation:

```
chromedriver --version
```

Step 4: Download the Repository and Create a Django Project

1. Download the repository and open it in a Python IDE (PyCharm recommended).
2. Place the downloaded files into the project directory.

Step 5: Install Required Python Packages

```
pip install --upgrade pip

pip install Django channels channels_redis daphne uvicorn whitenoise psycpg2-binary dj-database-url python-decouple psycpg2 gunicorn reportlab pandas openpyxl neo4j PyMuPDF PyPDF2 selenium graphviz
```

Step 6: Install Required Applications

```
sudo apt update

sudo apt install nginx libpq-dev python3-dev graphviz
```

Step7: Run the Application

Run the application using the terminal:

```
uvicorn mydjangoapp.asgi:application --host 127.0.0.1 --port 8000
```

Step8: The Tutorial Video about Using the Application

You can download the tutorial video from this link

<https://drive.google.com/file/d/1OmNMfoJmrafsiBLxotQtQHD4npyWQTKV/view?usp=sharing>