

**INSTALLATION MANUAL FOR
SOCIALLY RESPONSIBLE
INVESTING**

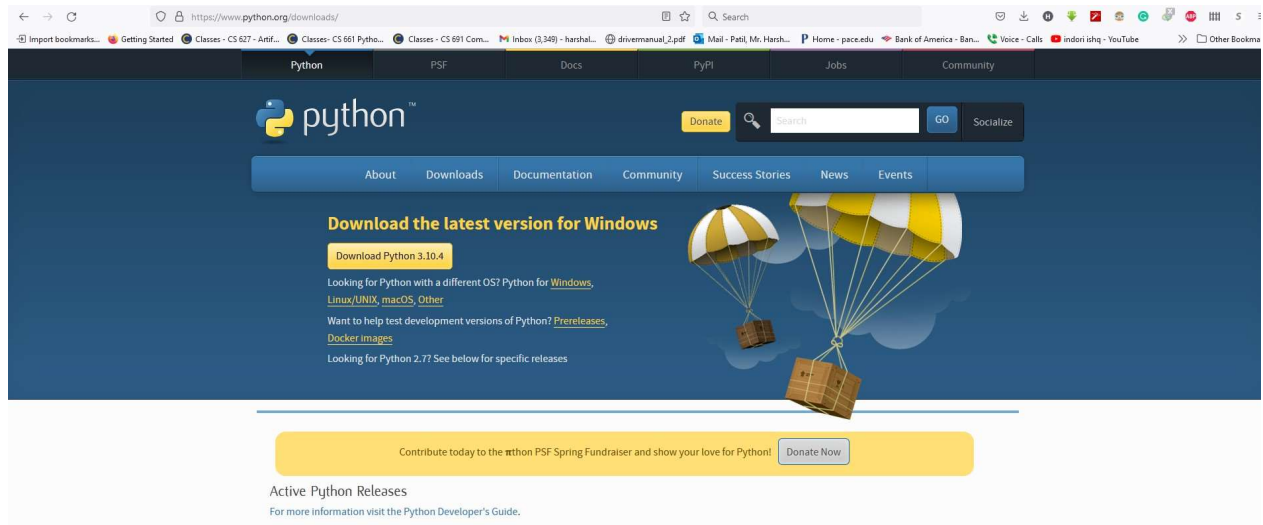
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1. INSTALLING APPLICATIONS:

1.1 INSTALL PYTHON 3.10.4

- The first and foremost step is to install a python in a local machine using the link below.
Python installer - <https://www.python.org/downloads/>



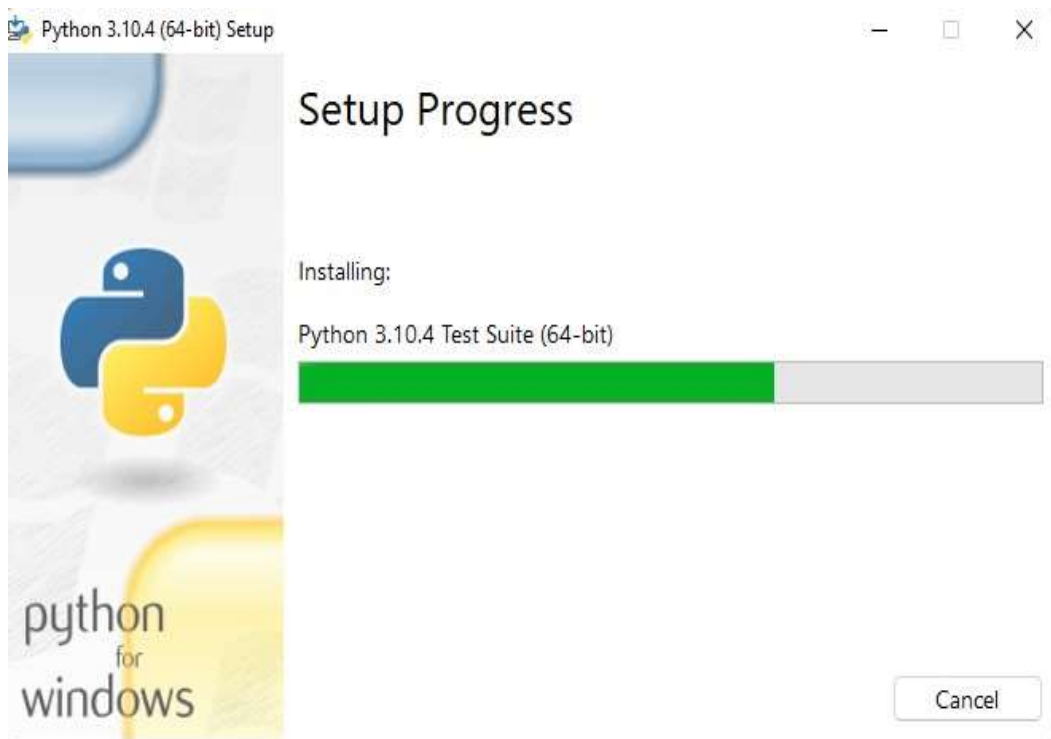
- Navigate to the python installer and double click on it.



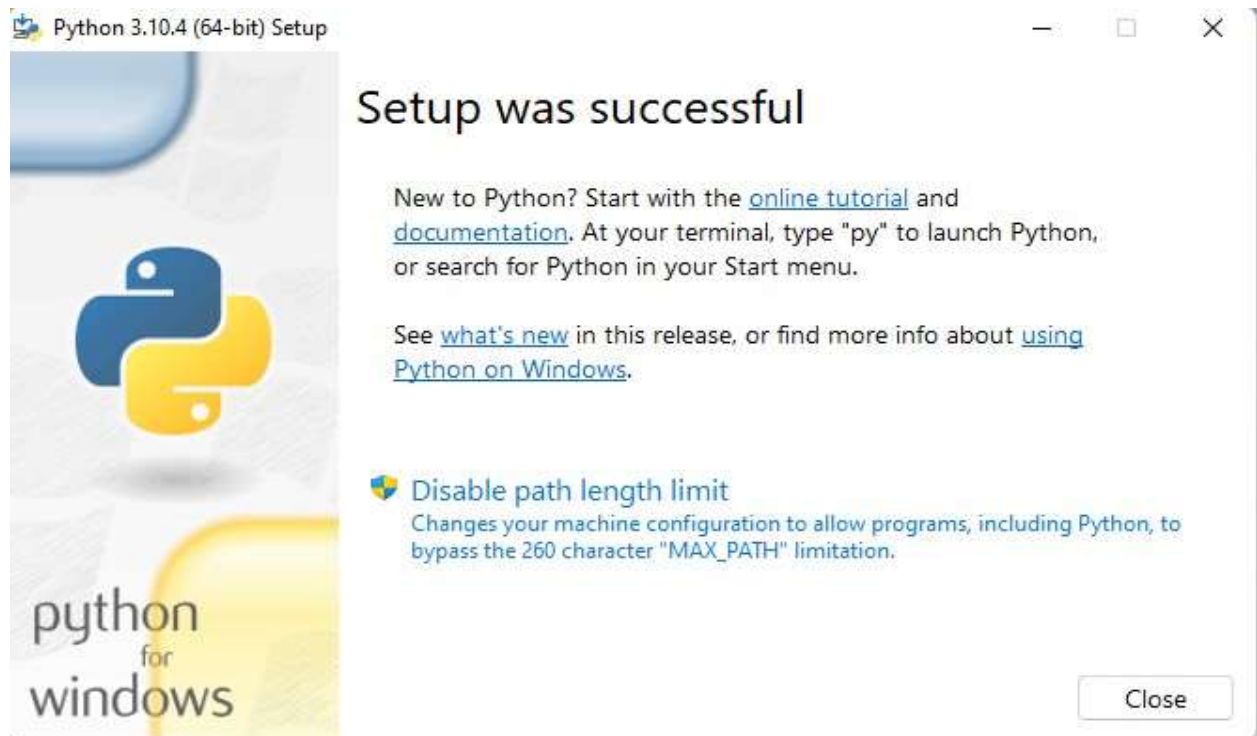
- Click Checkbox Python add to path



- Click on install now



- Click on close after successful installation



1.2 INSTALL NODEJS

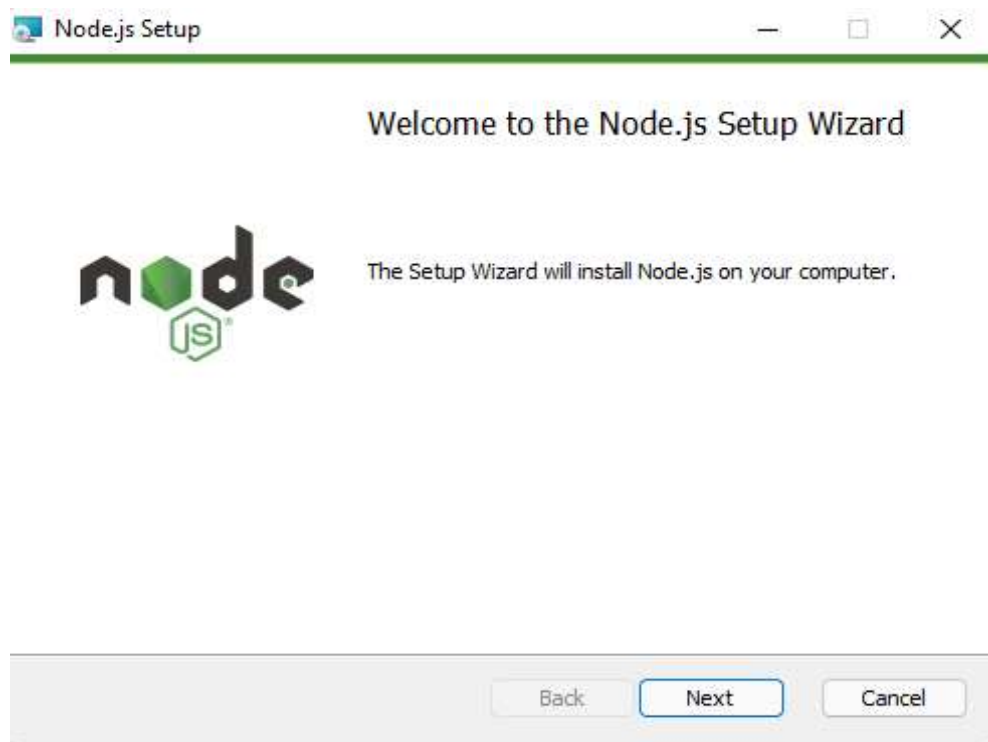
Nodejs installer - <https://nodejs.org/en/download/>

The screenshot shows the Node.js website's 'Downloads' section. The header features the Node.js logo and a navigation bar with links: HOME, ABOUT, DOWNLOADS, DOCS, GET INVOLVED, SECURITY, CERTIFICATION, and NEWS. The main content area is titled 'Downloads' and includes the text 'Latest LTS Version: 16.15.0 (includes npm 8.5.5)'. Below this, it says 'Download the Node.js source code or a pre-built installer for your platform, and start developing today.' The page is divided into two main columns: 'LTS Recommended For Most Users' and 'Current Latest Features'. The 'LTS' column has a 'Windows Installer' button with the file name 'node-v16.15.0-x64.msi'. The 'Current' column has a 'macOS Installer' button with 'node-v16.15.0.pkg' and a 'Source Code' button with 'node-v16.15.0.tar.gz'. Below these buttons, there is a table of download links for various platforms and architectures.

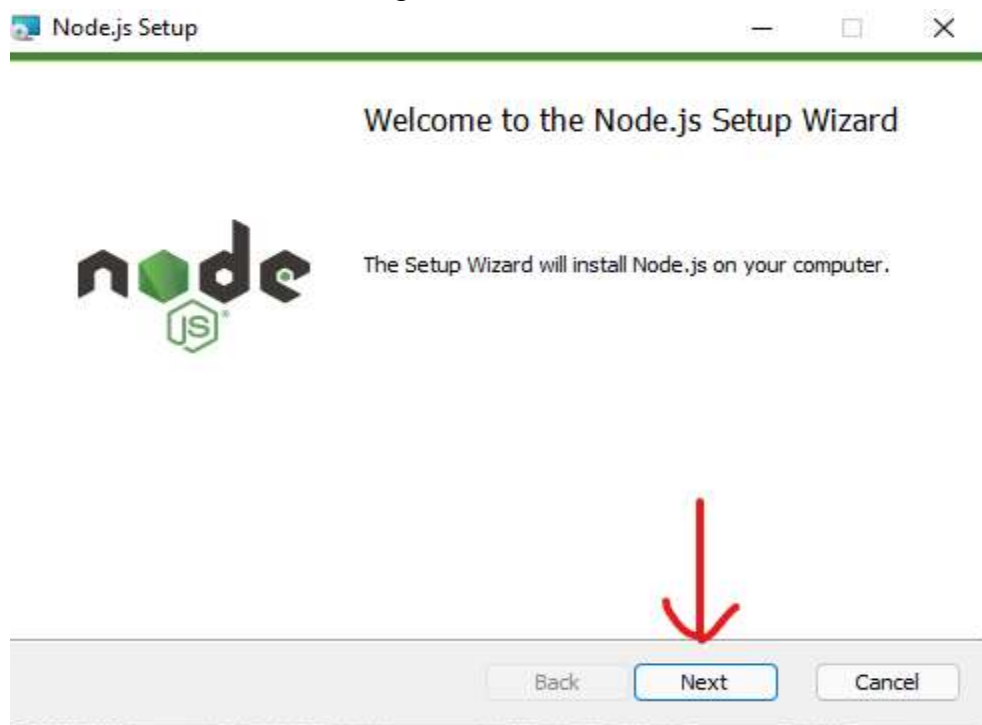
Windows Installer (.msi)	32-bit	64-bit
Windows Binary (.zip)	32-bit	64-bit
macOS Installer (.pkg)	64-bit / ARM64	
macOS Binary (.tar.gz)	64-bit	ARM64
Linux Binaries (x64)	64-bit	
Linux Binaries (ARM)	ARMv7	ARMv8
Source Code	node-v16.15.0.tar.gz	

Additional Platforms

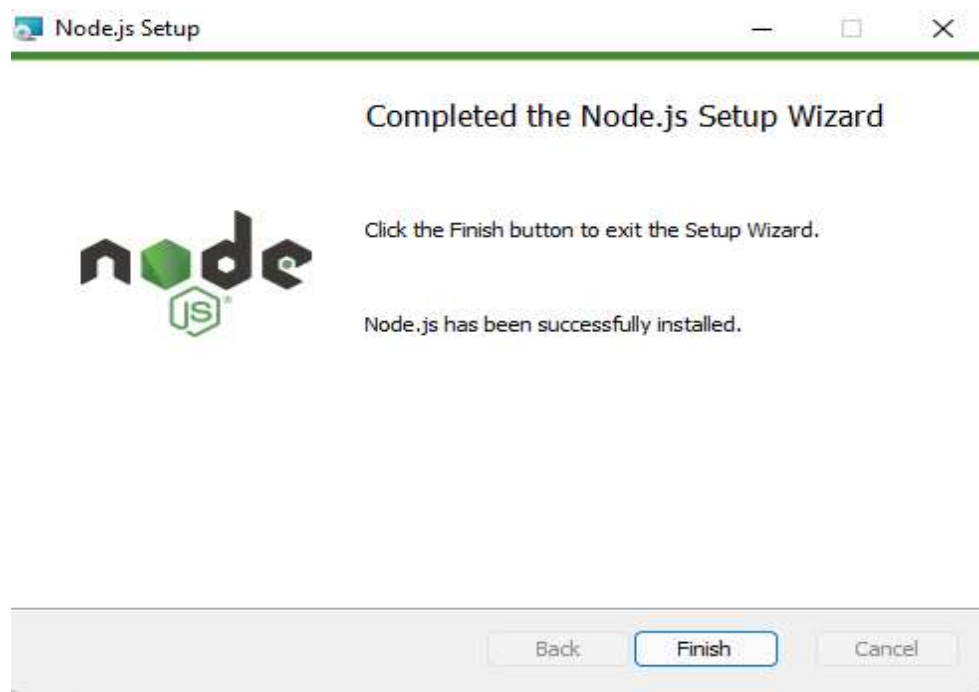
- Navigate to node.js installer and double click on installer to install node.js



- Click on next till the button changes to install then click on install



- Click on finish after installation



- Open command prompt from start menu
- Enter the command “python --version” in cmd to check whether python is installed or not.

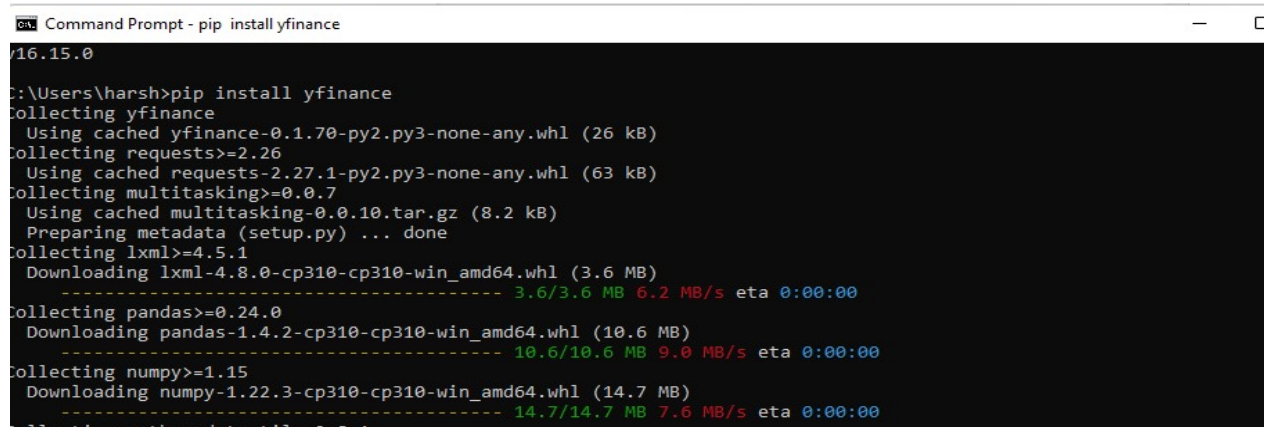
```
Command Prompt
C:\Users\harsh>python --version
Python 3.10.4
C:\Users\harsh>
```

- Enter the command “node --version” in cmd to check whether node.js is installed or not.

```
Command Prompt
C:\Users\harsh>python --version
Python 3.10.4
C:\Users\harsh>node --version
v16.15.0
C:\Users\harsh>
```

1.3 INSTALLING YFINANCE

- Open command prompt
- Enter “pip install yfinance” to install y finance api

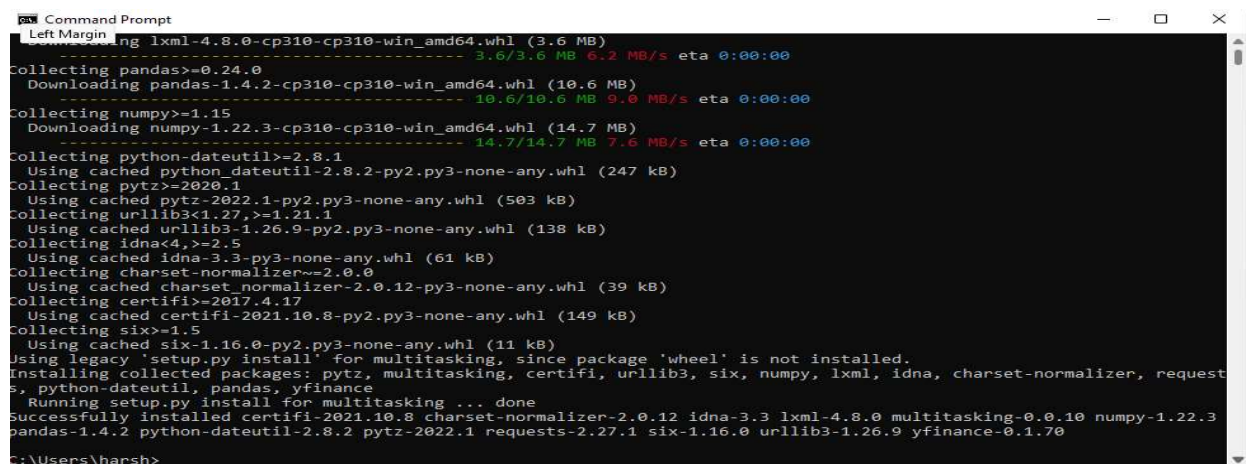


```

Command Prompt - pip install yfinance

C:\Users\harsh>pip install yfinance
Collecting yfinance
  Using cached yfinance-0.1.70-py2.py3-none-any.whl (26 kB)
Collecting requests>=2.26
  Using cached requests-2.27.1-py2.py3-none-any.whl (63 kB)
Collecting multitasking>=0.0.7
  Using cached multitasking-0.0.10.tar.gz (8.2 kB)
  Preparing metadata (setup.py) ... done
Collecting lxml>=4.5.1
  Downloading lxml-4.8.0-cp310-cp310-win_amd64.whl (3.6 MB)
  ----- 3.6/3.6 MB 6.2 MB/s eta 0:00:00
Collecting pandas>=0.24.0
  Downloading pandas-1.4.2-cp310-cp310-win_amd64.whl (10.6 MB)
  ----- 10.6/10.6 MB 9.0 MB/s eta 0:00:00
Collecting numpy>=1.15
  Downloading numpy-1.22.3-cp310-cp310-win_amd64.whl (14.7 MB)
  ----- 14.7/14.7 MB 7.6 MB/s eta 0:00:00
Collecting python-dateutil>=2.8.1
  Using cached python-dateutil-2.8.2-py2.py3-none-any.whl (247 kB)
Collecting pytz>=2020.1
  Using cached pytz-2022.1-py2.py3-none-any.whl (503 kB)
Collecting urllib3<1.27,>=1.21.1
  Using cached urllib3-1.26.9-py2.py3-none-any.whl (138 kB)
Collecting idna<4,>=2.5
  Using cached idna-3.3-py3-none-any.whl (61 kB)
Collecting charset-normalizer~=2.0.0
  Using cached charset-normalizer-2.0.12-py3-none-any.whl (39 kB)
Collecting certifi>=2017.4.17
  Using cached certifi-2021.10.8-py2.py3-none-any.whl (149 kB)
Collecting six>=1.5
  Using cached six-1.16.0-py2.py3-none-any.whl (11 kB)
Using legacy 'setup.py install' for multitasking, since package 'wheel' is not installed.
Installing collected packages: pytz, multitasking, certifi, urllib3, six, numpy, lxml, idna, charset-normalizer, request
s, python-dateutil, pandas, yfinance
  Running setup.py install for multitasking ... done
Successfully installed certifi-2021.10.8 charset-normalizer-2.0.12 idna-3.3 lxml-4.8.0 multitasking-0.0.10 numpy-1.22.3
pandas-1.4.2 python-dateutil-2.8.2 pytz-2022.1 requests-2.27.1 six-1.16.0 urllib3-1.26.9 yfinance-0.1.70
C:\Users\harsh>
  
```

- Yfinance is successfully installed



```

Command Prompt

Left Margin
Collecting lxml-4.8.0-cp310-cp310-win_amd64.whl (3.6 MB)
  ----- 3.6/3.6 MB 6.2 MB/s eta 0:00:00
Collecting pandas>=0.24.0
  Downloading pandas-1.4.2-cp310-cp310-win_amd64.whl (10.6 MB)
  ----- 10.6/10.6 MB 9.0 MB/s eta 0:00:00
Collecting numpy>=1.15
  Downloading numpy-1.22.3-cp310-cp310-win_amd64.whl (14.7 MB)
  ----- 14.7/14.7 MB 7.6 MB/s eta 0:00:00
Collecting python-dateutil>=2.8.1
  Using cached python-dateutil-2.8.2-py2.py3-none-any.whl (247 kB)
Collecting pytz>=2020.1
  Using cached pytz-2022.1-py2.py3-none-any.whl (503 kB)
Collecting urllib3<1.27,>=1.21.1
  Using cached urllib3-1.26.9-py2.py3-none-any.whl (138 kB)
Collecting idna<4,>=2.5
  Using cached idna-3.3-py3-none-any.whl (61 kB)
Collecting charset-normalizer~=2.0.0
  Using cached charset-normalizer-2.0.12-py3-none-any.whl (39 kB)
Collecting certifi>=2017.4.17
  Using cached certifi-2021.10.8-py2.py3-none-any.whl (149 kB)
Collecting six>=1.5
  Using cached six-1.16.0-py2.py3-none-any.whl (11 kB)
Using legacy 'setup.py install' for multitasking, since package 'wheel' is not installed.
Installing collected packages: pytz, multitasking, certifi, urllib3, six, numpy, lxml, idna, charset-normalizer, request
s, python-dateutil, pandas, yfinance
  Running setup.py install for multitasking ... done
Successfully installed certifi-2021.10.8 charset-normalizer-2.0.12 idna-3.3 lxml-4.8.0 multitasking-0.0.10 numpy-1.22.3
pandas-1.4.2 python-dateutil-2.8.2 pytz-2022.1 requests-2.27.1 six-1.16.0 urllib3-1.26.9 yfinance-0.1.70
C:\Users\harsh>
  
```

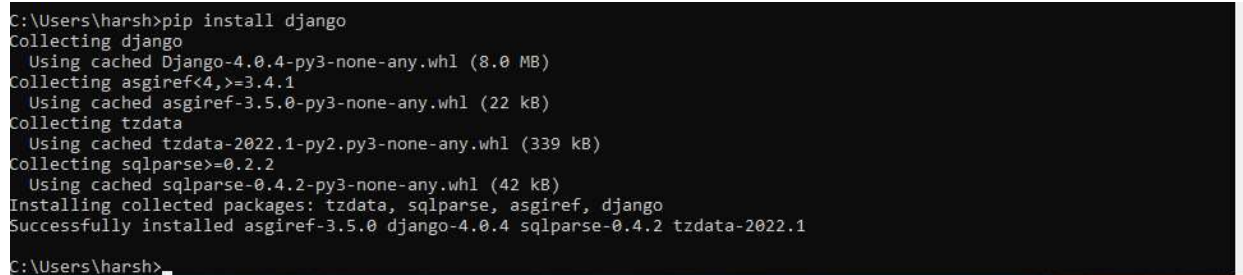

1.4 INSTALLING DJANGO

- Enter “pip install django” to install django



```
Command Prompt
C:\Users\harsh>pip install django
```

- Django is installed



```
C:\Users\harsh>pip install django
Collecting django
  Using cached Django-4.0.4-py3-none-any.whl (8.0 MB)
Collecting asgiref<4,>=3.4.1
  Using cached asgiref-3.5.0-py3-none-any.whl (22 kB)
Collecting tzdata
  Using cached tzdata-2022.1-py2.py3-none-any.whl (339 kB)
Collecting sqlparse>=0.2.2
  Using cached sqlparse-0.4.2-py3-none-any.whl (42 kB)
Installing collected packages: tzdata, sqlparse, asgiref, django
Successfully installed asgiref-3.5.0 django-4.0.4 sqlparse-0.4.2 tzdata-2022.1
C:\Users\harsh>
```

1.5 INSTALL BOOTSTRAP

- Enter “npm install bootstrap@3” to install bootstrap



```
Command Prompt
C:\Users\harsh>npm install bootstrap@3
```

- Bootstrap is successfully installed

```

C:\Users\harsh>npm install bootstrap@3
up to date, audited 2 packages in 531ms
found 0 vulnerabilities
C:\Users\harsh>_

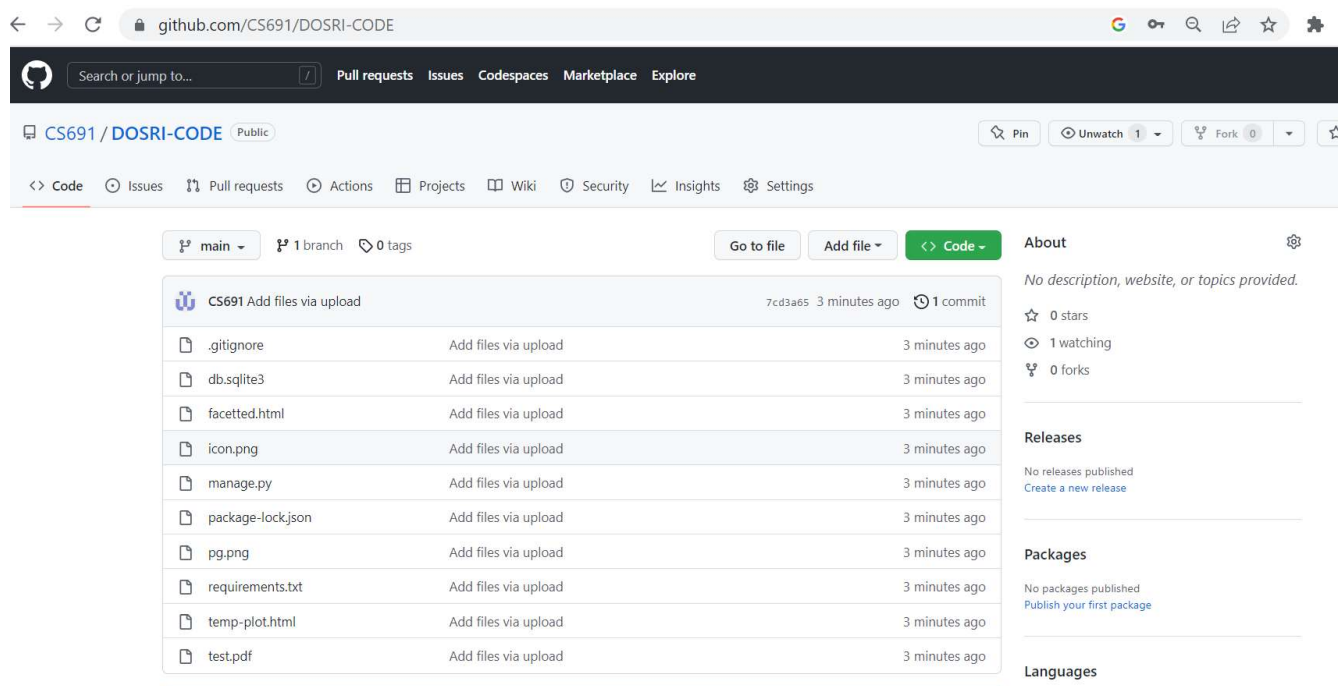
```

2. INSTALLING ADDITIONAL MODULES FROM GITHUB REQUIREMENTS.TXT

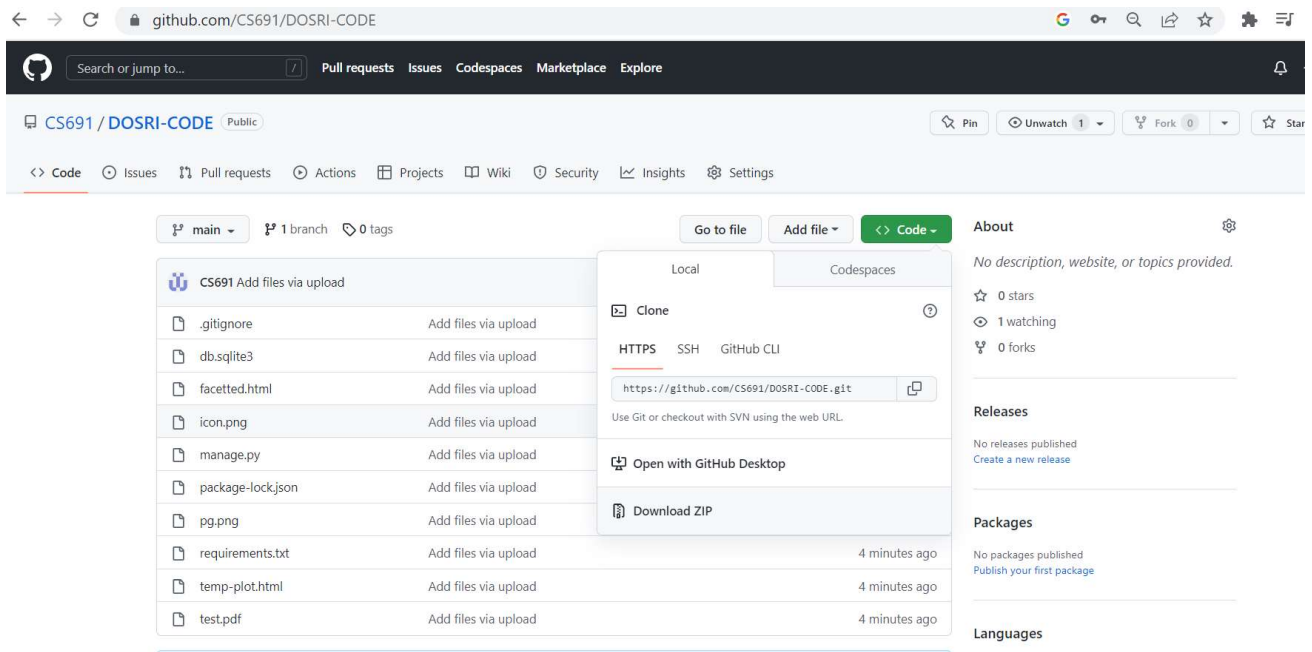
- Click on this link below to download zip file for SRI Project

<https://github.com/CS691/DOSRI-CODE>

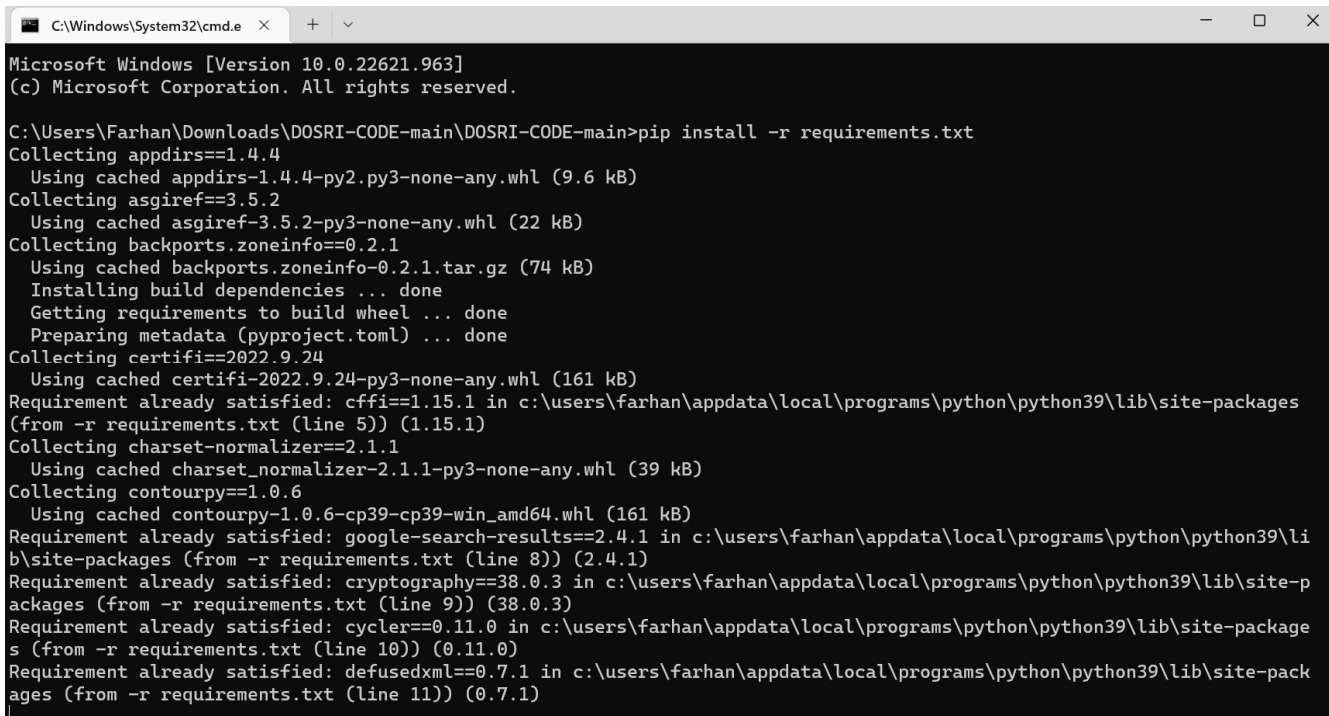
Once User click on this link the user will be redirected to Github and socially responsible investing home page will be displayed on browser.



- Click on code to see download ZIP option where user can download the ZIP file



- Click on Download ZIP to download the code as a ZIP and UNZIP all files.
- Open CMD, follow the path for DOSRI-CODE folder
- Install packages with pip: `-r requirements.txt`
- The following command will install the packages according to the configuration file `requirements.txt`.
- `$ pip install -r requirements.txt`
- You can name the configuration file whatever you like, but `requirements.txt` is often used.
- Put `requirements.txt` in the directory where the command will be executed. If it is in another directory, specify its path like `path/to/requirements.txt`.



```

Microsoft Windows [Version 10.0.22621.963]
(c) Microsoft Corporation. All rights reserved.

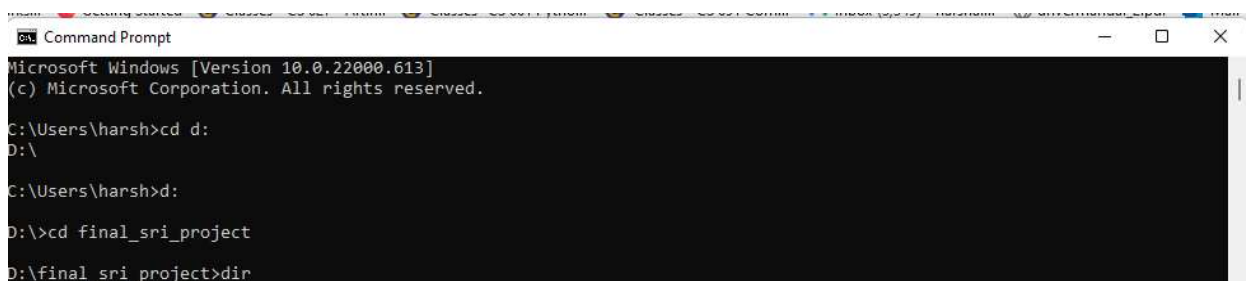
C:\Users\Farhan\Downloads\DOSRI-CODE-main\DOSRI-CODE-main>pip install -r requirements.txt
Collecting appdirs==1.4.4
  Using cached appdirs-1.4.4-py2.py3-none-any.whl (9.6 kB)
Collecting asgiref==3.5.2
  Using cached asgiref-3.5.2-py3-none-any.whl (22 kB)
Collecting backports.zoneinfo==0.2.1
  Using cached backports.zoneinfo-0.2.1.tar.gz (74 kB)
  Installing build dependencies ... done
  Getting requirements to build wheel ... done
  Preparing metadata (pyproject.toml) ... done
Collecting certifi==2022.9.24
  Using cached certifi-2022.9.24-py3-none-any.whl (161 kB)
Requirement already satisfied: cffi==1.15.1 in c:\users\farhan\appdata\local\programs\python\python39\lib\site-packages
(from -r requirements.txt (line 5)) (1.15.1)
Collecting charset-normalizer==2.1.1
  Using cached charset-normalizer-2.1.1-py3-none-any.whl (39 kB)
Collecting contourpy==1.0.6
  Using cached contourpy-1.0.6-cp39-cp39-win_amd64.whl (161 kB)
Requirement already satisfied: google-search-results==2.4.1 in c:\users\farhan\appdata\local\programs\python\python39\li
b\site-packages (from -r requirements.txt (line 8)) (2.4.1)
Requirement already satisfied: cryptography==38.0.3 in c:\users\farhan\appdata\local\programs\python\python39\lib\site-p
ackages (from -r requirements.txt (line 9)) (38.0.3)
Requirement already satisfied: cyclr==0.11.0 in c:\users\farhan\appdata\local\programs\python\python39\lib\site-packag
es (from -r requirements.txt (line 10)) (0.11.0)
Requirement already satisfied: defusedxml==0.7.1 in c:\users\farhan\appdata\local\programs\python\python39\lib\site-pack
ages (from -r requirements.txt (line 11)) (0.7.1)

```

- All required modules will be downloaded with this command, Now user can run the project.

3. RUNNING SRI WEBSITE

- Open command prompt
- Navigate to project directory using cd command



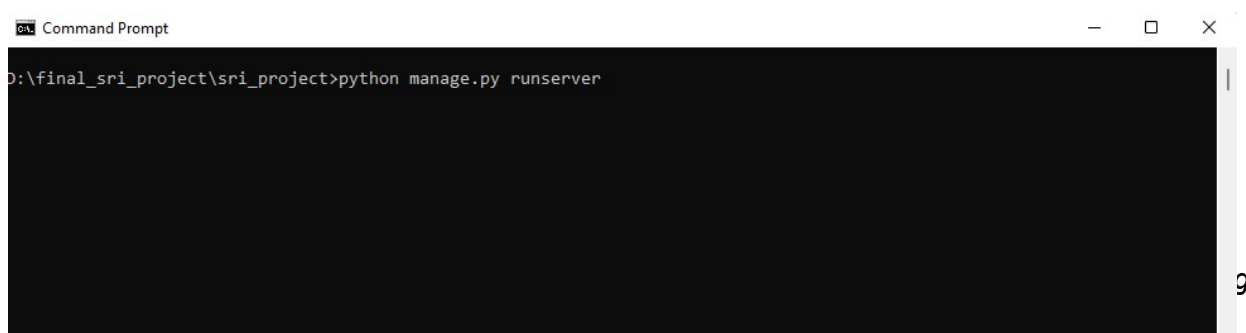
```

Microsoft Windows [Version 10.0.22000.613]
(c) Microsoft Corporation. All rights reserved.

C:\Users\harsh>cd d:
D:\
C:\Users\harsh>d:
D:\>cd final_sri_project
D:\final_sri_project>dir

```

- Enter “python manage.py runserver” command to run the file and host server

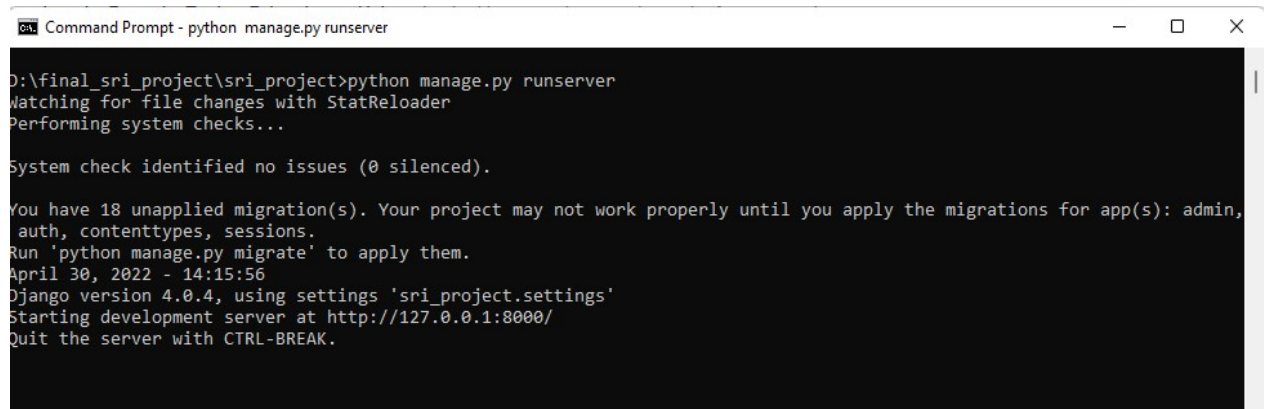


```

Microsoft Windows [Version 10.0.22000.613]
(c) Microsoft Corporation. All rights reserved.

D:\final_sri_project\sri_project>python manage.py runserver

```



```
Command Prompt - python manage.py runserver

D:\final_sri_project\sri_project>python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).

You have 18 unapplied migration(s). Your project may not work properly until you apply the migrations for app(s): admin,
auth, contenttypes, sessions.
Run 'python manage.py migrate' to apply them.
April 30, 2022 - 14:15:56
Django version 4.0.4, using settings 'sri_project.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```

- Open Browser
- Enter “<http://127.0.0.1:8000/catalog>” in the url box of browser and hit enter key



- Website is running now

4. RESULTS

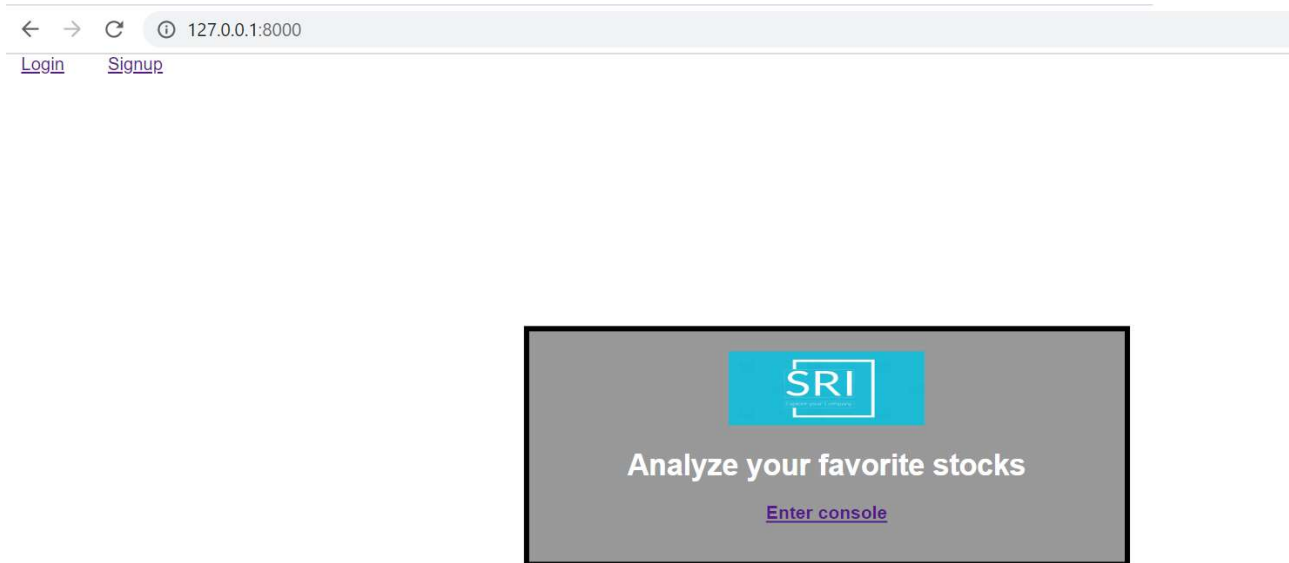


Fig 4.1 Homepage DOSRI Application

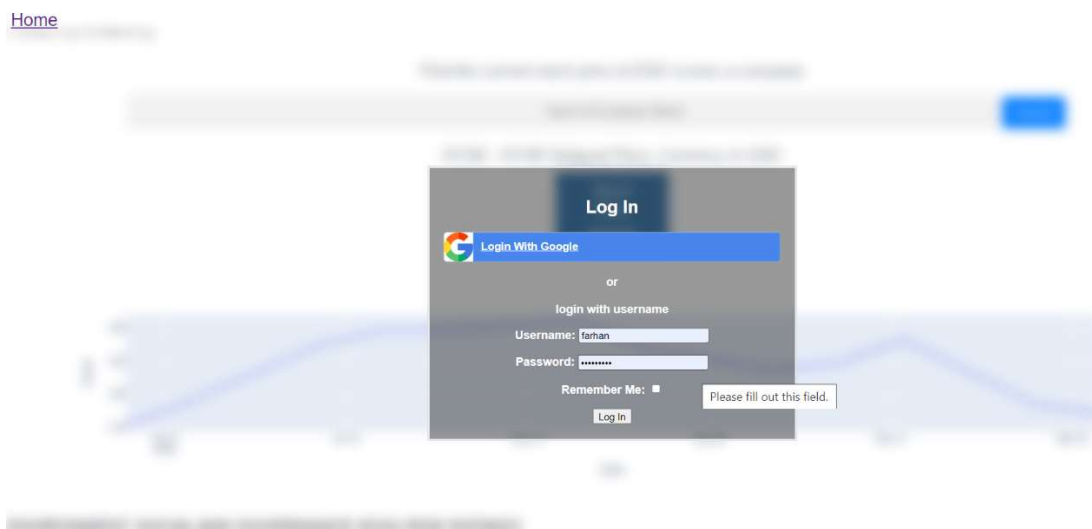


Fig 4.2 User can also login using Google

Fig 4.3 Search bar

Amazon

Find the current stock price & ESG scores for a company

Fig 4.4 Homepage DOSRI Application

Corporate Sustainability Score
AMZN (Amazon)

Find the current stock price & ESG scores a company

08/23/2022 - 08/26/2022

Type In A Company Name [Submit](#)

Want to specify date range? ✓

Latest in News

Amazon shares have given up all of their gains from the pandemic. The company's stock skyrocketed in 2020 and held up in 2021 as shoppers ...

Amazon News. @amazonnews. The official account for news about @Amazon. United States amazon.com/about/iscrizione: gennaio 2017.

Digital Newspaper Subscriptions ... The Washington Post, New York Times, Wall Street Journal, and more, delivered direct to your Kindle, iOS or Android device.

NYSE- Price ✓
Price Graph ✓

ESG Score ✓ Environmental Score ✓ Social Score ✓ Governance Score ✓
Financials ✓

Historical ✓

HISTORIAL DATA

	Open	High	Low	Close	Volume	Dividends	Stock Splits
Date							
2022-08-26	136.550003	137.830002	130.500000	130.750000	53322700	0	0.0
2022-08-25	135.259995	137.419998	134.279999	137.279999	37496300	0	0.0

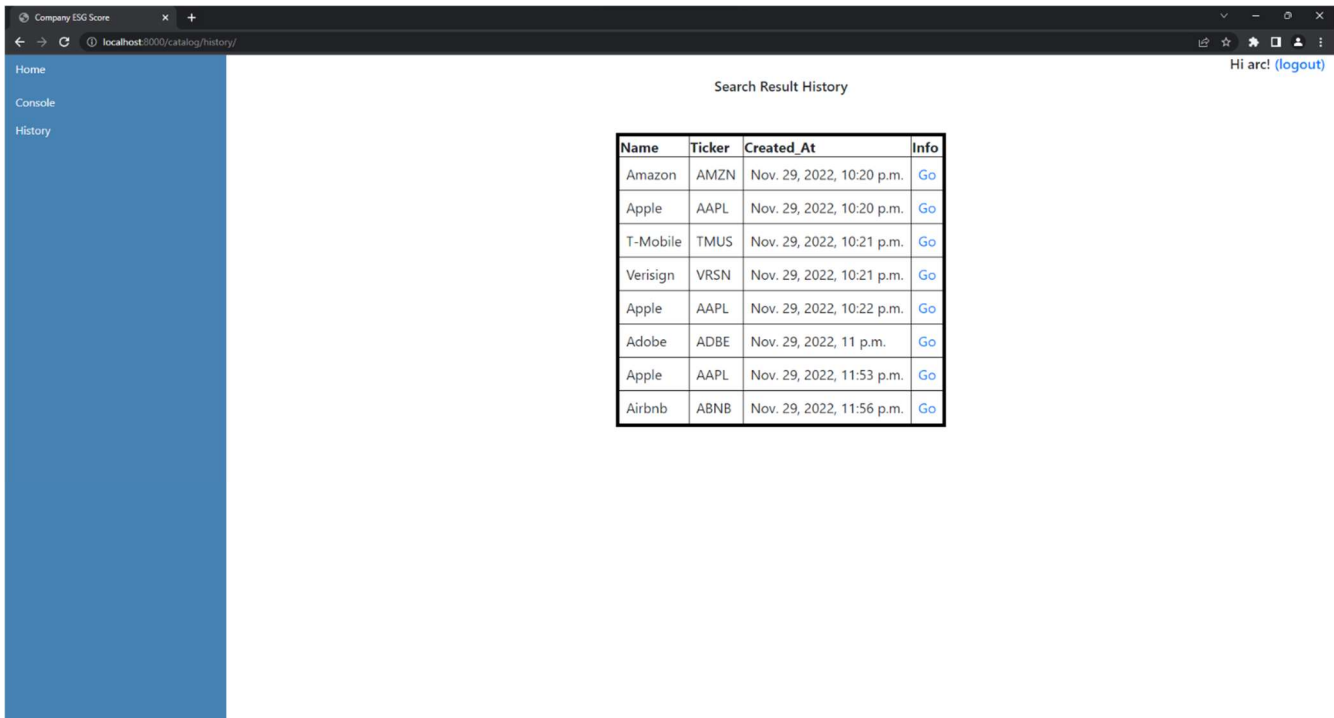
Fig 4.5 Latest News of searched company is also fetched along with all other features

08/23/2022 - 08/26/2022

Type In A Company Name

Want to specify date range? ✓

Fig 4.6 Date range feature to look for financials in a particular date range



The screenshot shows a web browser window with the title 'Company ESG Score'. The address bar displays 'localhost:3000/catalog/history/'. On the left, there is a blue sidebar with links for 'Home', 'Console', and 'History'. The main content area is titled 'Search Result History' and contains a table with the following data:

Name	Ticker	Created_At	Info
Amazon	AMZN	Nov. 29, 2022, 10:20 p.m.	Go
Apple	AAPL	Nov. 29, 2022, 10:20 p.m.	Go
T-Mobile	TMUS	Nov. 29, 2022, 10:21 p.m.	Go
Verisign	VRSN	Nov. 29, 2022, 10:21 p.m.	Go
Apple	AAPL	Nov. 29, 2022, 10:22 p.m.	Go
Adobe	ADBE	Nov. 29, 2022, 11 p.m.	Go
Apple	AAPL	Nov. 29, 2022, 11:53 p.m.	Go
Airbnb	ABNB	Nov. 29, 2022, 11:56 p.m.	Go

In the top right corner of the main area, it says 'Hi arc! (logout)'.

Fig 4.7 History of previously searched company is saved.

5. CONTACT INFORMATION

Samarth Yadav - sy72960n@pace.edu

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Kush Shah - ks76678n@pace.edu

Jephthe Louis-Jacques - jl83643p@pace.edu

Naga Sai Kiran Nimmakayala- nn48960n@pace.edu