How to install and run?

1. Read the README file and access the code.zip using the google drive link.

2. Download and unzip the code.zip files.

3. **Optional**: Install the packages that are mentioned in "requirements.txt" file, **It is designed such that you don't need to install requirements.txt seperately, again if it shows errors regarding modules then try installing requirements.txt**

4. Open the terminal/ command prompt and run the following code

    ➢ cd downloads

    ➢ cd code

    ➢ streamlit run test.py

```
[surya@Jaspers-MacBook-Air ~ % cd downloads                                    ]
[surya@Jaspers-MacBook-Air downloads % cd code                                 ]
[surya@Jaspers-MacBook-Air code % streamlit run test.py                        ]

  You can now view your Streamlit app in your browser.

  Local URL: http://localhost:8501
  Network URL: http://192.168.0.101:8501

  For better performance, install the Watchdog module:

  $ xcode-select --install
  $ pip install watchdog
```
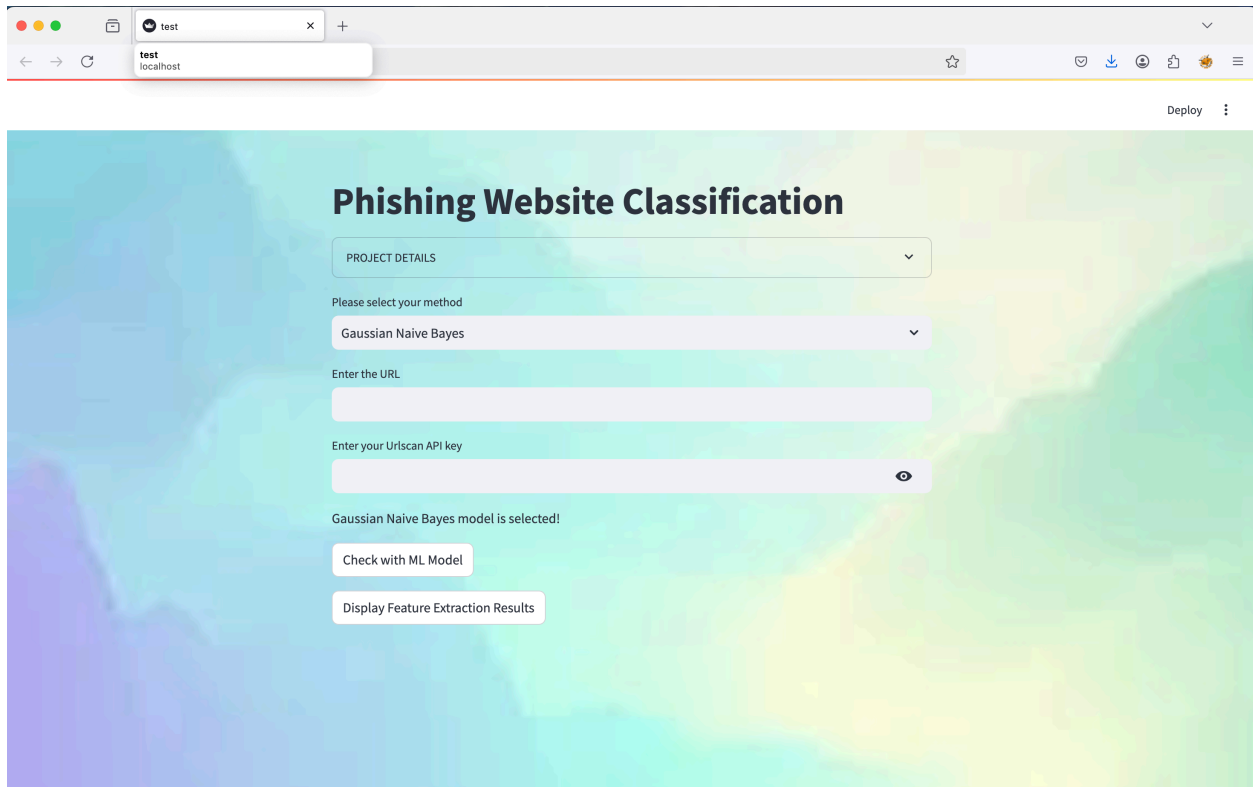
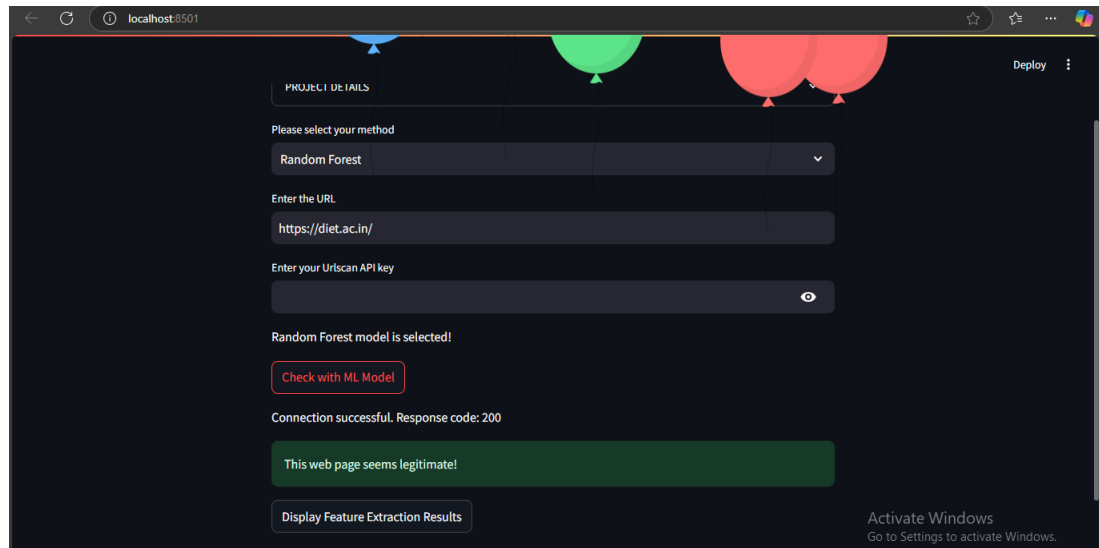5. This action redirects to our interface as shown below:

6. Select a method through which you want to classify your URL i.e

- ML model

- API integration

➢ Machine learning method:

- Select a machine learning algorithm from the dropdown.

- enter the URL that should be classified.

- Click on "check with ML model" button.

- Y o u   c a n   s e e   t h e   r e s u l t s   b e l o w ,   f o r   e x a m p l e

➢ API Integration method:

- In please select a method dropdown box, select "check with URLScan.io".

- To check the URL whether its legitimate or not through API method you first need to create a API key from "URL and website scanner - urlscan.io" website and create an account, if you already have one create a new API key or use already existing key.

- Steps to create an account in urlscan.io is as follows

  1) Go to the login page and click on "create one! " Below the "forgot your password" button

2) Enter your details in the required sections , check the checkbox below and click on "create account" button

3) Check your registered email and login using the credentials

4) Now , to create a API key go to user profile and click on "settings & API" where you can create a new API key
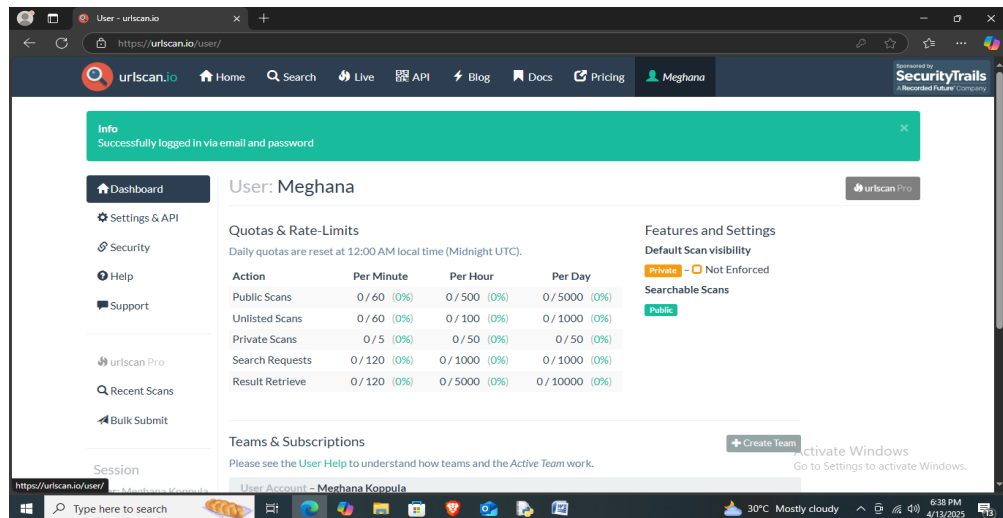
5) Click on "CREATE API KEY" button. Enter a description such that an API key is enabled.
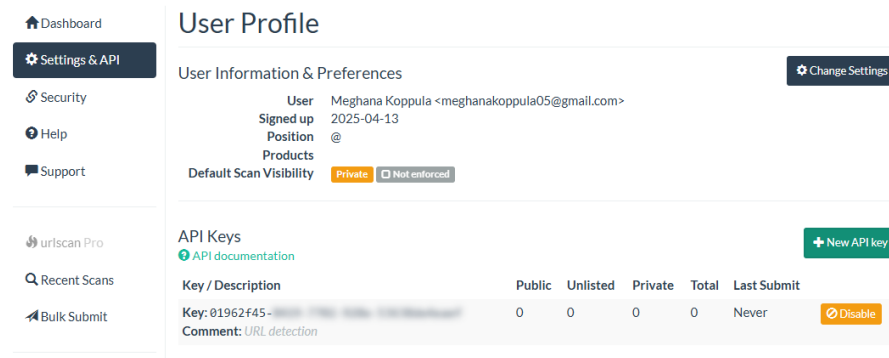
- Now, copy and paste the key in the our user interface.

- Enter the URL

- Click on check URL with URLScan.io and you can see the output below, for example

You can also view the URL website in your URLScan.io account by clicking on "view full scan details here".

➢ Feature extraction:

- After you enter the url, to obtain the features existing in the url click on "display feature extraction results"

- It displays all the features in the url.

Display Feature Extraction Results

Extracted Features

	0	1
0	has_title	1
1	has_input	1
2	has_button	1
3	has_image	0
4	has_submit	0
5	has_link	1
6	has_password	0
7	has_email_input	0
8	has_hidden_element	0
9	has_audio	0
10	has_video	0
11	number_of_inputs	1
12	number_of_buttons	1
13	number_of_images	0
14	number_of_option	0
15	number_of_list	190
16	number_of_th	0
17	number_of_tr	0
18	number_of_href	40