National
College of
Ireland

# Configuration Manual

MSc Research Project
MSc Cloud Computing

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| **Programme:** | MSc Cloud Computing | **Year:** | 2021 - 2022 |
| **Module:** | MSc Research Project | | |
| **Supervisor:** | Dr. Majid Latifi | | |
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| **Project Title:** | Cloud Data Security through Hybrid Verification Technique Based on Cryptographic Hash Function | | |
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**Signature:**

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**PLEASE READ THE FOLLOWING INSTRUCTIONS AND CHECKLIST**
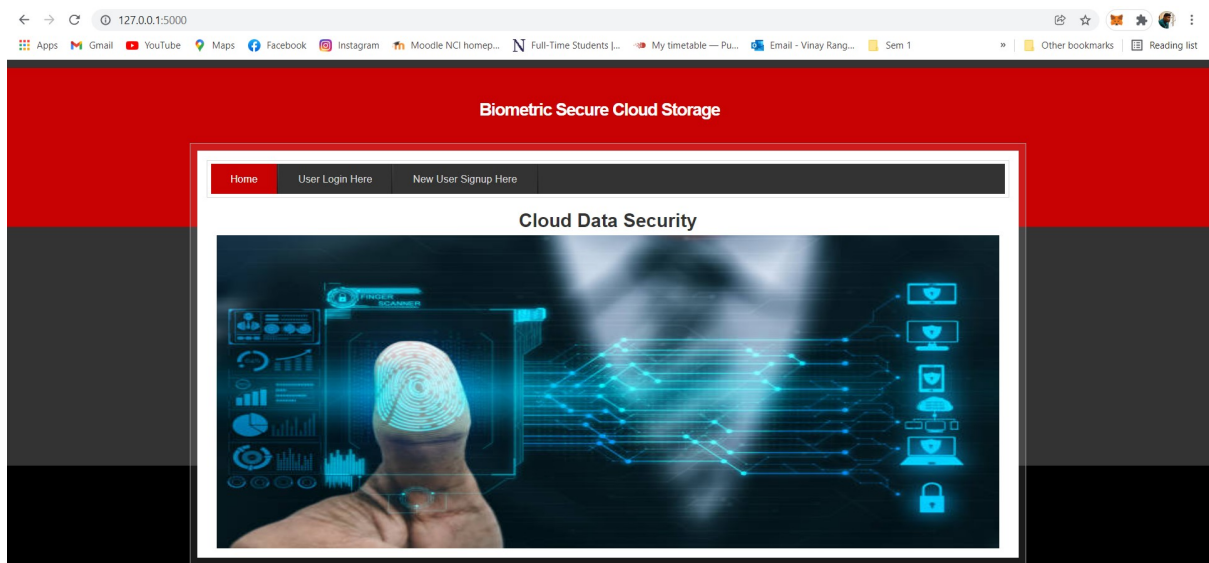
# Configuration Manual

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# 1 Running the Python Application

To run project double click on 'run.bat' file to start cloud server and to get below screen.



In above screen cloud server has started and running on URL 'http://127.0.0.1:5000/and enter this URL in browser to get below cloud server home page.

In below screen click on 'New User Signup Here' link to get below signup screen
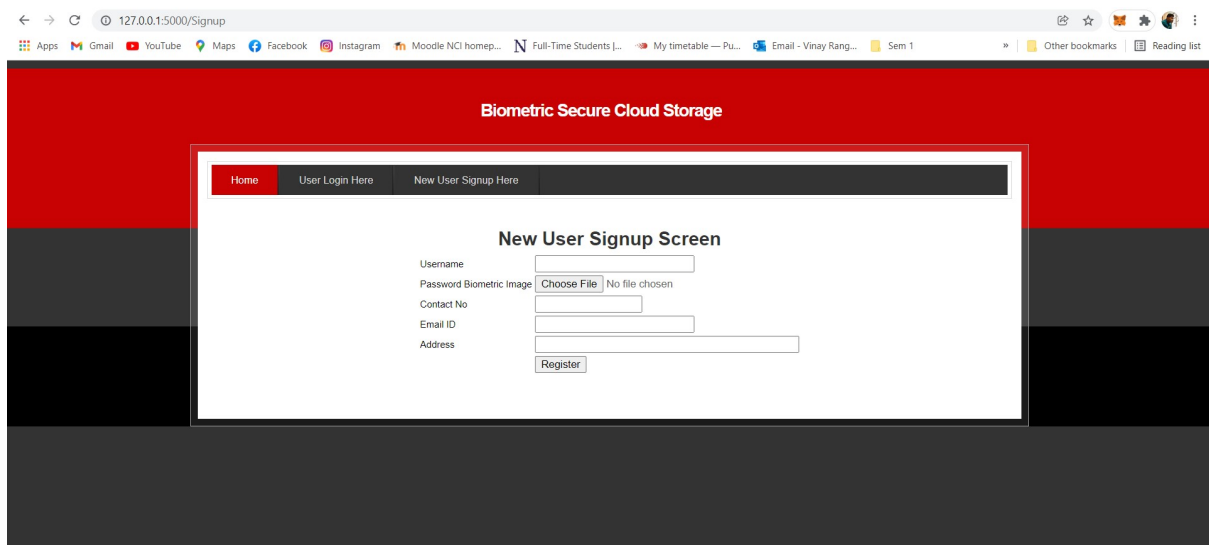


In this screen user can signup by uploading password as finger image and in above screen select image and click 'Open' button to load image and then fill the other details and click on 'Register' button to complete signup process.

Once the Signup process is completed successfully, now click on 'User Login Here' link to get below screen
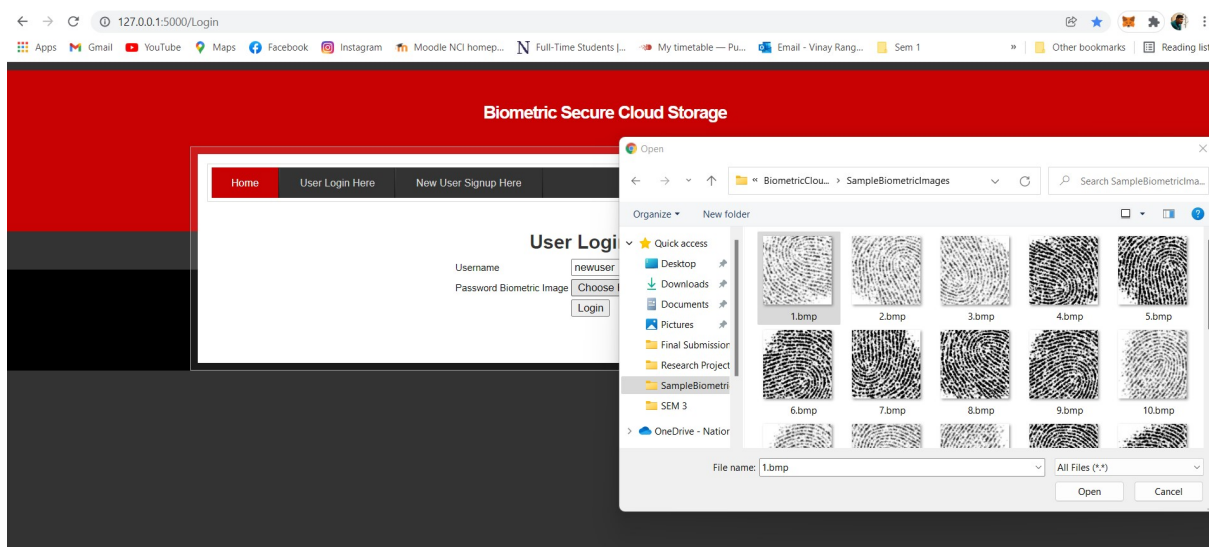


Once the correct biometric image is selected for the user login, then click on the "login" button. Once the correct image is selected, the login will be successful, and the below screen will appear.

# 2 Uploading Files to Cloud

Once the login with the correct biometric image is successful, click on 'Upload Flies to Cloud' button in order to upload user data to the cloud.
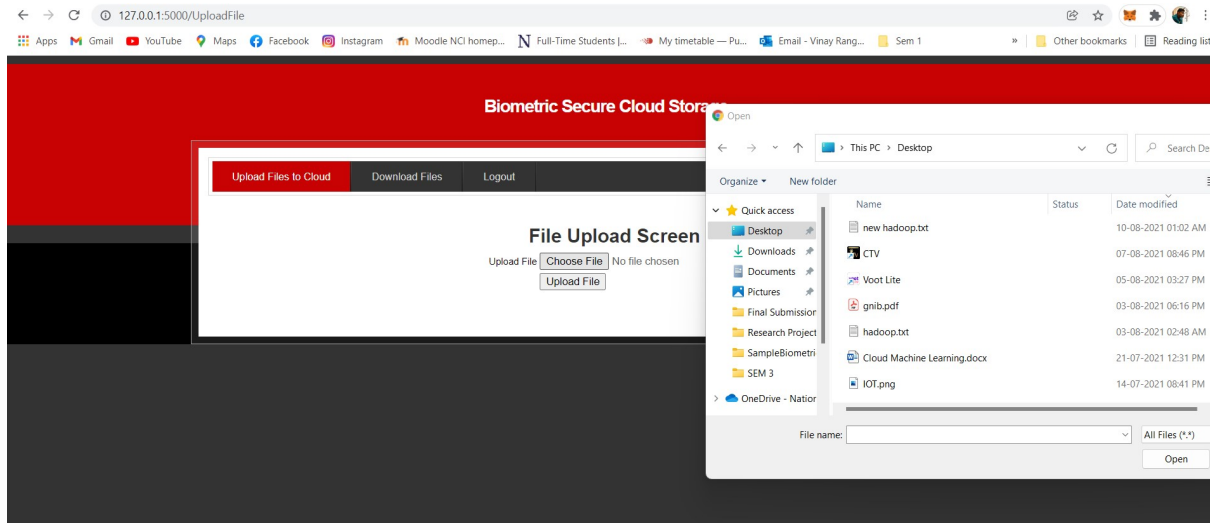


In the above screen I will be uploading Hadoop.txt to the cloud and the file will be saved in encrypted format.

As soon as the files are uploaded, we can see the files saved in 'static/users' and we can see the file in the encrypted format.

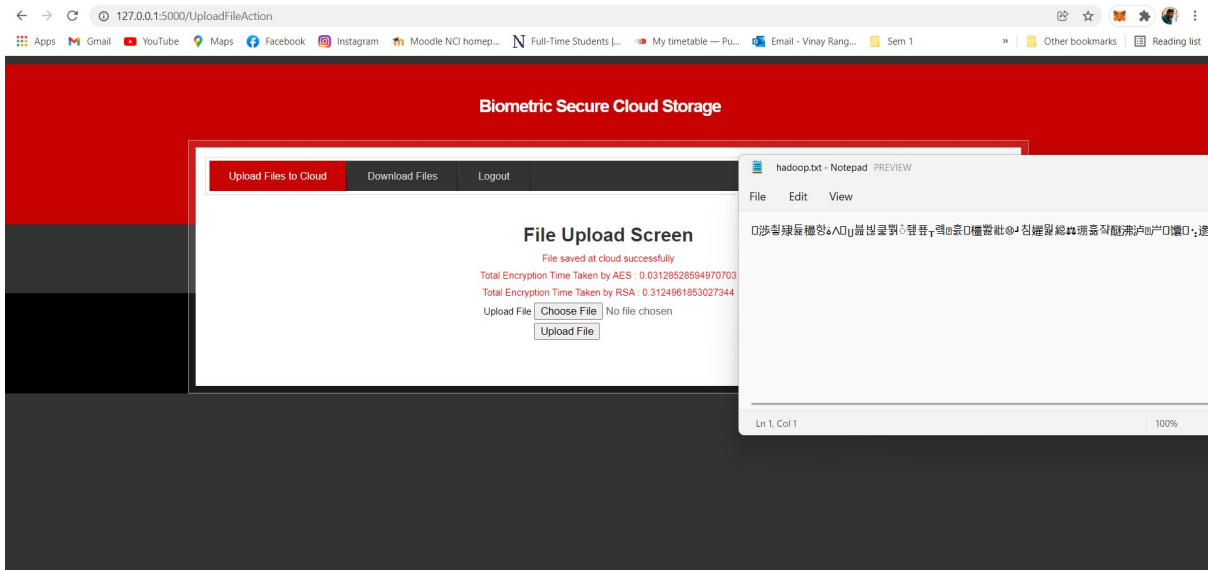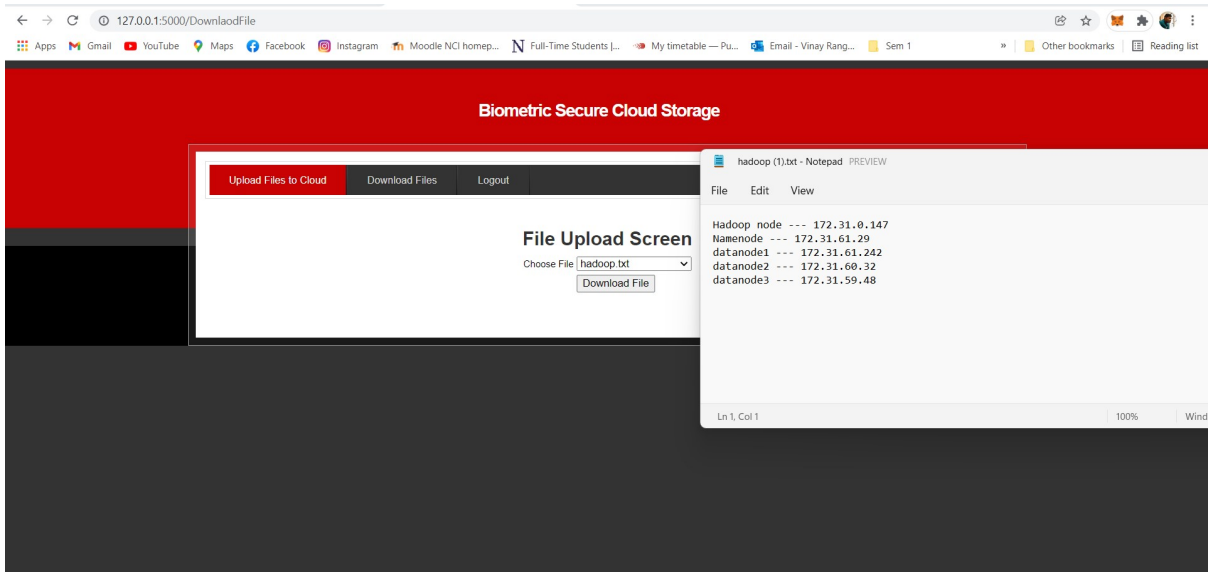# 3 Decrypting the Files

Once the files are encrypted, we can proceed to click on the 'Download Files' button to download the decrypted file.

As soon as the file is downloaded, we can view and read the file which has been decrypted successfully.

# References

Python (2019). *Welcome to Python.org*. [online] Python.org. Available at:
https://www.python.org/.

Matplotlib (2012). *Matplotlib: Python plotting — Matplotlib 3.1.1 documentation*.
[online] Matplotlib.org. Available at: https://matplotlib.org/.

Craggs, I. (n.d.). *Eclipse Paho | The Eclipse Foundation*. [online] www.eclipse.org.
Available at:
https://www.eclipse.org/paho/index.php?page=clients/python/index.php
[Accessed 16 Dec. 2021].