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Project Charter

Problem Statement	Project Requirements			
 Developing an OTP (One-Time Password) verification system in Python. The system should generate a 6-digit OTP and send it to the user's email address for verification Upon receiving the OTP, the user should enter it into the system for validation If the entered OTP matches the generated OTP, access should be granted; otherwise, access should be denied 				

Project Charter

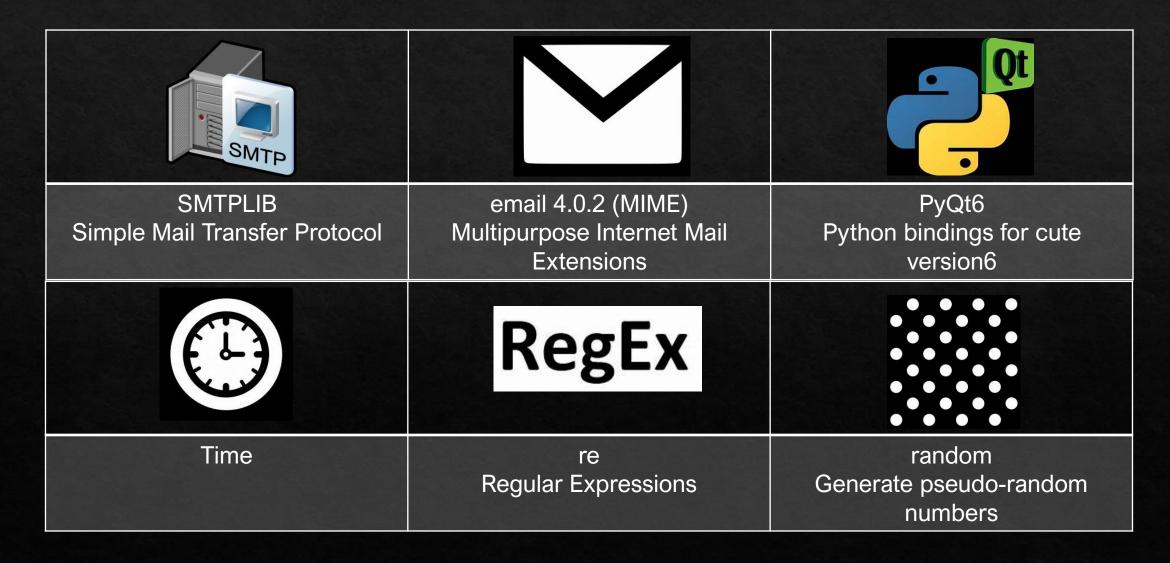
Project Objective		Project Scope				
•	Creating an OTP verification system capable of sending OTP to the user and verifying it	•		python-based ser friendly & sec tation & test case		verification I, if possible

IDE Used

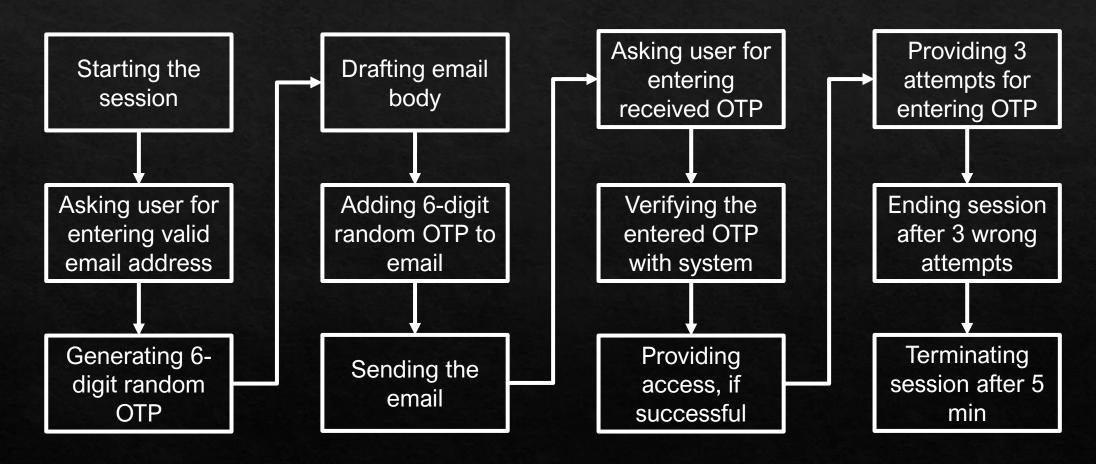


Jupyter Notebook

Libraries Used



Process Flow



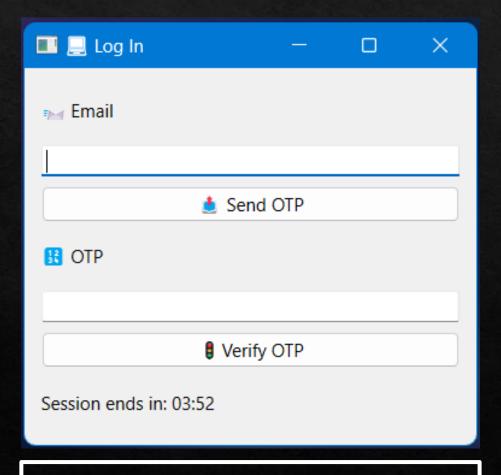
Robust Features Inbuilt In The System

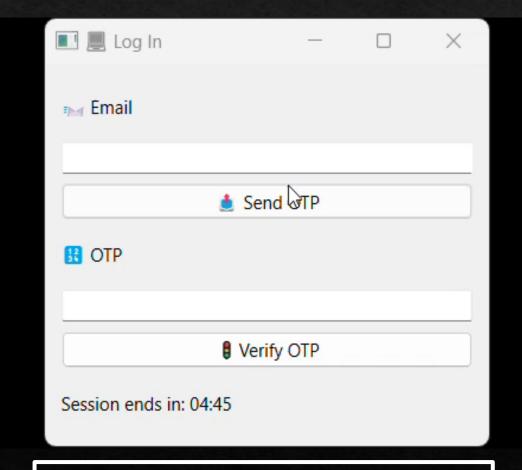
- Each session is valid for 5 minutes, after which the session terminates automatically
 and OTP can be generated once the OTP is sent to the entered email address
- Entered email format is validated before OTP generation, random strings are not accepted
- After sending the OTP to email, message is shown to the user
- ♦ 3 attempts are provided for entering OTP, after each attempt input box is frozen for 30 sec for ensuring that the user checks & enters right OTP
- After 3 attempts, session is terminated
- Random strings & characters are not accepted as OTP

Challenges Faced

- Generating appropriate email body with subject & email body
- ♦ Generating GUI form
- Integrating GUI with Jupyter notebook
- Integrating considered features in the code & GUI
- Generating time-based sessions & making it work parallelly with other considered features

User Friendly Graphical User Interface

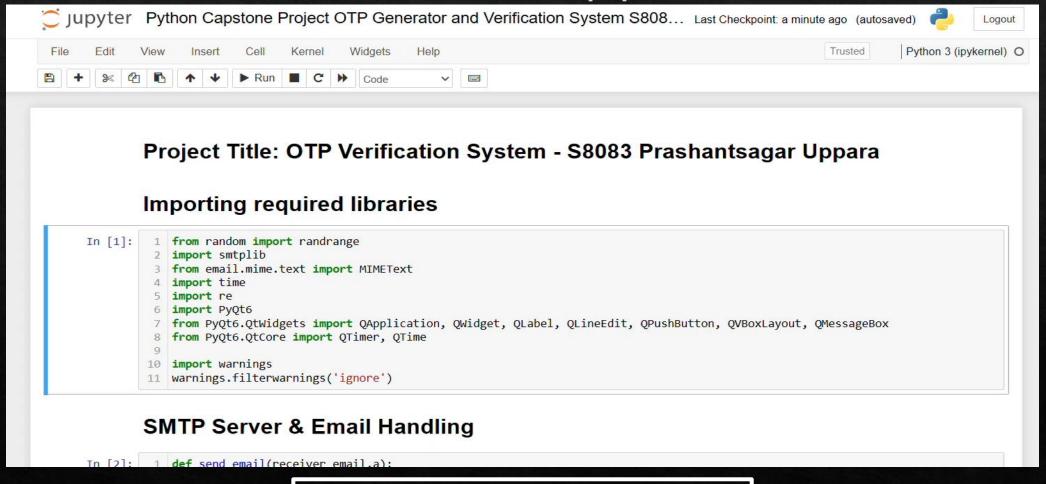




GUI (OTP verification form)

Play the above video to check working

Code Snippet



Play the above video to check the code



Questions

Thankyou