**REPORT FOR MULTI-MESSENGER: MESSAGING VIA TERMINAL**

*AS A PROJECT WORK FOR COURSE*

**PYTHON PROGRAMMING (INT 213)**

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**School:** School of Computer Science & Engineering

**Name of University:** Lovely Professional University

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***Lovely Professional University, Jalandhar Punjab***

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**MULTI-MESSENGER: MESSAGING VIA TERMINAL**

**27th November 2021**

***ABSTRACT:***

Multi-Messaging nowadays is very challenging due to the complexity and the design of the code with different languages with different functions. I and my teammate created this project of multi-messaging via the terminal to make daily life work easy and time reduction. We use some inbuilt libraries and to make a few things easier and fast. This will help many companies to do fast mails and text messages in a large amount.

The aim of this program is to let users’ mail/ message anyone using the terminal. As, many of our work, nowadays, lies in Terminal, talking about programmers here in specific.

***ACKNOWLEDGEMENT:***

We would like to express our special thanks of gratitude to our mentor and teacher – Miss. Upinder Kaur who gave me the golden opportunity to do wonderful project on this topic (Multi-Messenger: Messaging via Terminal), which also helps me in doing a lot of research and came to know about so many things for knowledge and for future enhancement. And thanks to my friends and seniors as well, who spent their personal hours listening and providing feedback on this project.

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**INTRODUCTION**

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**CONTEXT:**

This project has been done as part of my course for the CSE(B-Tech) at Lovely Professional University. Supervised by Miss. Upinder Kaur, we have two months to fulfill the requirements to succeed the module.

**MOTIVATIONS:**

Python is a widely used general-purpose, high-level programming language. It was mainly developed for emphasis on code readability and its syntax allows programmers to express concepts in fewer lines of code. This programming language is intended for software engineers, system analysts, program managers and user support and many more. It consists of many inbuilt libraries which helps us to code faster with less time consumption. That’s why we decided to conduct this project.

**IDEA:**

**TEAM MEMBERS AND THEIR ROLES**

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**TEAM LEADER:** Aman Pandey

Contributions:

* Coding (Joined)
* SMS Package Code
* Research
* Project Compilation

**TEAM MEMBER:** Ritu Priya Singh

Contributions:

* Coding (Joined)
* Email Package Code
* Report Creation
* Presentation Creation

***LIBRARIES:***

**Smtplib:**

Simple Mail Transfer Protocol (SMTP) is a protocol, which handles sending e-mail and routing e-mail between mail servers. Python provides smtplib module, which defines an SMTP client session object that can be used to send mail to any Internet machine with an SMTP or ESMTP listener daemon.

**Twilio:**

The Twilio Python Helper Library makes it easy to interact with the Twilio API from your python application. It lets you write Node.js code to make HTTP requests to the Twilio API. This library is open source. Twilio functions is a serverless environment that empowers developers to create production-grade quickly and easily, event-driven Twilio applications that scale with their businesses.

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***MODULES:***

Modules refer to a file containing Python statements and definitions. We use modules to break down large programs into small manageable and organized files. We can define our most used functions in a module and import it, instead of copying their definitions into programs. We can import definitions inside a module to another module or the interactive interpreter in Python. We use the import keyword to do this. **In our project we have used three different modules:**

* ***Import client:*** The module exports the interface; clients module import the interface so that they can access the functions in the module. The implementation of the module is private and hidden from the view of clients.
* ***Import smtplib:*** This module defines an SMTP client session object that can be used to send mail to any internet machine with an SMTP or ESMTP listener daemon.
* ***Import EmailMessage:*** The central class in the email package is the EmailMessage class, imported from the email, message module. It provides the core functionality for setting and querying header fields, for accessing message bodies and for creating or modifying structured messages.

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***SCREENSHOTS:***

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***CONCLUSIONS:***

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Understanding the syntax of Python is great and all, and Python by itself is indeed a great language, but the fundamentals of python aren’t why Python is a successful language. There are plenty of fun-to-write languages that are just like Python, such as Ruby, Julia, even R. What makes Python the victor is the community and 3rd party packages. While we can do a lot with just an installation of Python and the standard library, we can do infinitely more with all the 3rd party libraries out there.

***REFERENCES:***

To conduct this project the following tools have been used:

* PyCharm and Jupyter-lab
* <https://www.geeksforgeeks.org/multi-messenger-python-project-messaging-via-terminal/>
* <https://docs.python.org/3/library/smtplib.html>
* <https://www.twilio.com/docs/libraries>