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Python MicroProject

“Smartphone Analysis”

Team Members :

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# **ABSTRACT :**

Nowadays, because of the rapid changing technologies in the smartphone industries, it is very difficult to choose better smartphones based on the requirements. This Micro Project titled “Smartphone Analysis” is a simple project which helps the customer to compare smartphones and come to the decision of buying a better smartphone based on their requirements.

**REQUIREMENTS :**

* A GitHub account with private repository
* Visual Studio Code with Code-Runner, IntelliCode extensions and integrated with GitHub account.
* Knowledge on Python multi-threading, Socket programming, Mutex, Regular Expressions.
* Working on Python test cases.

Note:

* Commiting the project as much as completed to the following GitHub repository

<https://github.com/L99002516/python-project.git>

<https://github.com/99002519/Python.git>

## **IMPLEMENTATION & TEST PLANS :**

In this project, the first step was creating a class diagram based on the requirements. We extracted the csv file, started to write the core logic of classes, multithreading and parallely writing the code for socket programming using mutex. The code covered almost all the chapters which we learnt like Regular Expressions. We wrote simple test cases, built and run the code. Then, we integrated the code and commited the code into the GitHub repo.

## **GIT ACTIONS :**

* Python Unit Test – python3 <filename.py>
* Code Coverage - pytest -v –cov=<filename.py>
* PyLint

## **REFERENCES :**

Python Multithreading - https://www.youtube.com/watch?v=GqHLztqy0PU

Socket Programming with multithreading - <https://www.geeksforgeeks.org/socket-programming-> [multi-threading-python/?ref=lbp](https://www.geeksforgeeks.org/socket-programming-multi-threading-python/?ref=lbp)

Regular Expressions - <https://docs.python.org/3.4/library/re.html>

## **INDIVIDUAL CONTRIBUTION :**

Niranjan Kumar M – Writing the core logic of the project with Multithreading, Regular Expressions and executed test cases.

Maneesh Dani – Socket programming and unit testing, code coverage.

**!! THANK YOU !!**