Capstone Project 2

Phonepe Pulse Data Visualization and Exploration

Using Github Cloning, Python, Pandas, MySQL, mysql-connector-python, Streamlit, and Plotly
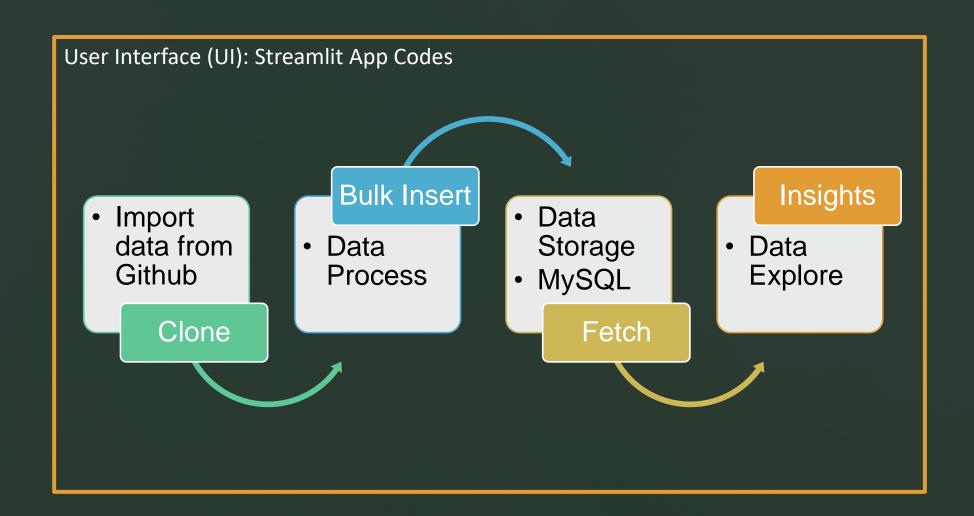
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Project Overview

Objective

- The primary objective of this project is to develop a comprehensive solution for extracting, processing, and visualizing data from the Phonepe pulse GitHub repository. Aim is to transform the raw data into insightful, easily accessible, and user-friendly visual representations

Project Workflow

User Interface (UI): Streamlit App Codes

Bulk Insert

Insights

- Import data from Github
- Data Process
- Data Storage
- MySQL
- Data Explore

Clone

Fetch

System Requirements

- Visual Studio Code Version: 1.85.1 or later

- MySQL and MySQL Workbench Version: 8.0.34 or later

Note: Install the above tools to execute the project.
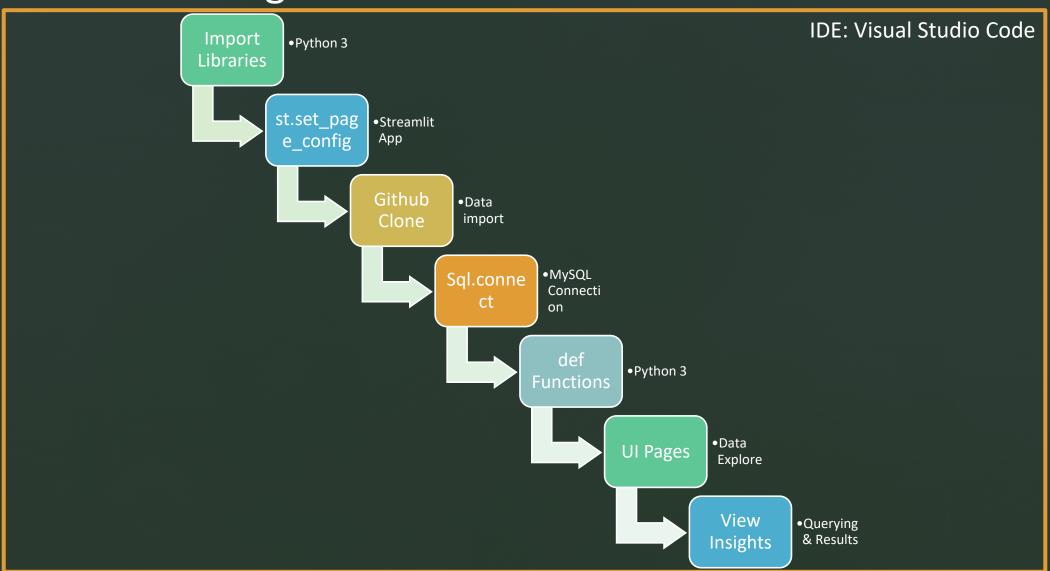
PIP Installations

- pip install pandas

- pip install plotly

- pip install streamlit

- pip install streamlit-option-menu

- pip install mysql-connector-python

- pip install Pillow

- pip install GitPython

- pip install streamlit-folium

- pip install geopandas

- pip install folium

Note: Install the above pip in respective IDE terminal (Eg: VS Code terminal or Run in cmd for Windows)
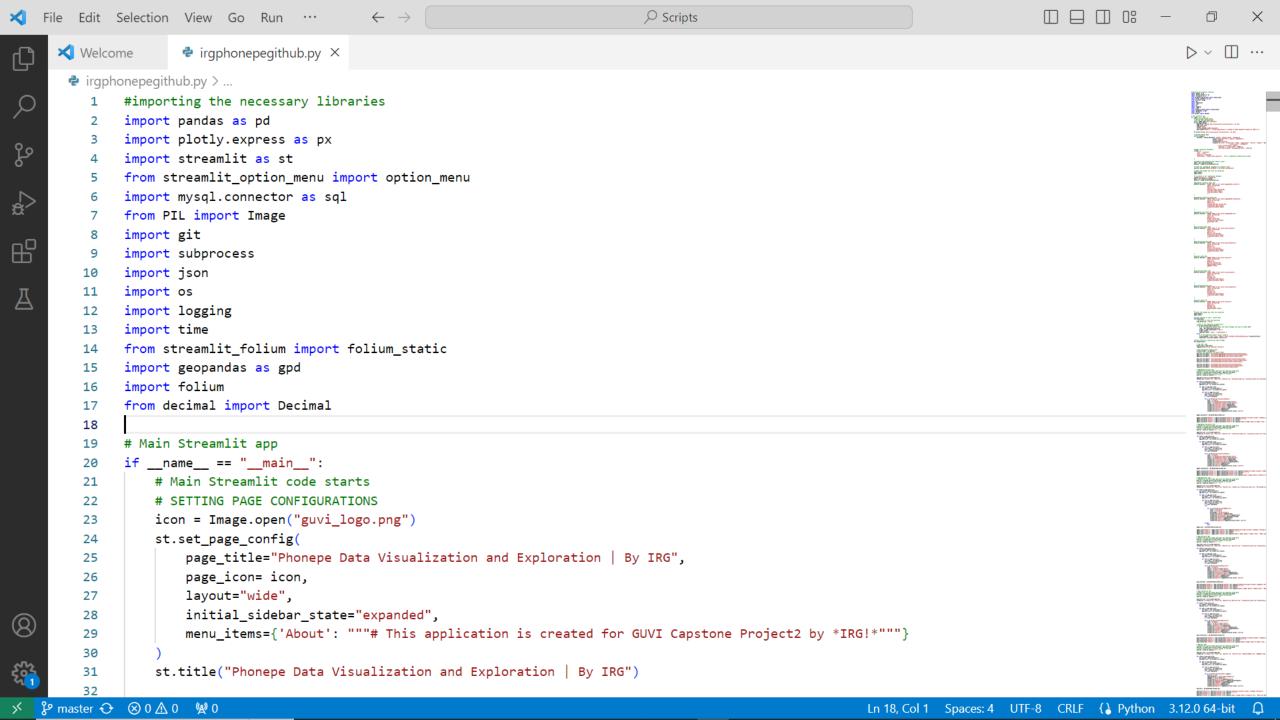
Coding References

- GITHUB Repositories

- Phonepe Pulse

- Streamlit Documentation

Coding Flow

IDE: Visual Studio Code

Import Libraries
- Python 3

st.set_page_config
- Streamlit App

Github Clone
- Data import

Sql.connect
- MySQL Connection

def Functions
- Python 3

UI Pages
- Data Explore

View Insights
- Querying & Results

Annexure: Output Video

```python
1    #importing the necessary libraries
2    import pandas as pd
3    import plotly.express as px
4    import streamlit as st
5    from streamlit_option_menu import option_menu
6    import mysql.connector as sql
7    from PIL import Image
8    import git
9    import subprocess
10   import json
11   import os
12   import logging
13   import time
14   from streamlit_folium import folium_static
15   import geopandas as gpd
16   import folium
17   from decimal import Decimal
18
19   # Main Streamlit app
20   if __name__ == "__main__":
21       # Main Streamlit code starts
22       # SETTING PAGE CONFIGURATIONS
23       icon = Image.open("guvi_logo.png")
24       st.set_page_config(
25           page_title="Phonepe Data Visualization and Exploration | By IRG",
26           page_icon= icon,
27           layout="wide",
28           initial_sidebar_state="expanded",
29           menu_items={'About': """# This application is created for GUVI Capstone Project2 by *IRG!*"""}
30       )
31       st.title("Phonepe Data Visualization and Exploration | By IRG")
32
```

```
(venv) C:\Users\Dell\Documents\Phone_Pe_Project\venv\Scripts>streamlit run c:/Users/Dell/Documents/Phone_Pe_Project/venv/Scripts/irgphonepegithub.py

  You can now view your Streamlit app in your browser.

  Local URL: http://localhost:8501
  Network URL: http://192.168.1.6:8501
```

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Home

🔍 Explore Data

💡 Insights

Domain : Fintech

Technologies used : Github Cloning, Python, Pandas, MySQL, mysql-connector-python, Streamlit, and Plotly.

Overview : The Phonepe pulse Github repository contains a large amount of data related to various metrics and statistics. The goal is to extract this data and process it to obtain insights and information that can be visualized in a user-friendly manner.

Click below LOAD/REFRESH button

To clone data from Github and store it in SQL

[LOAD/REFRESH]

🔄 Please wait, Phonepe Github Data is getting processed and loaded to MySQL...

Thank You!!!