Project Planning Phase-II
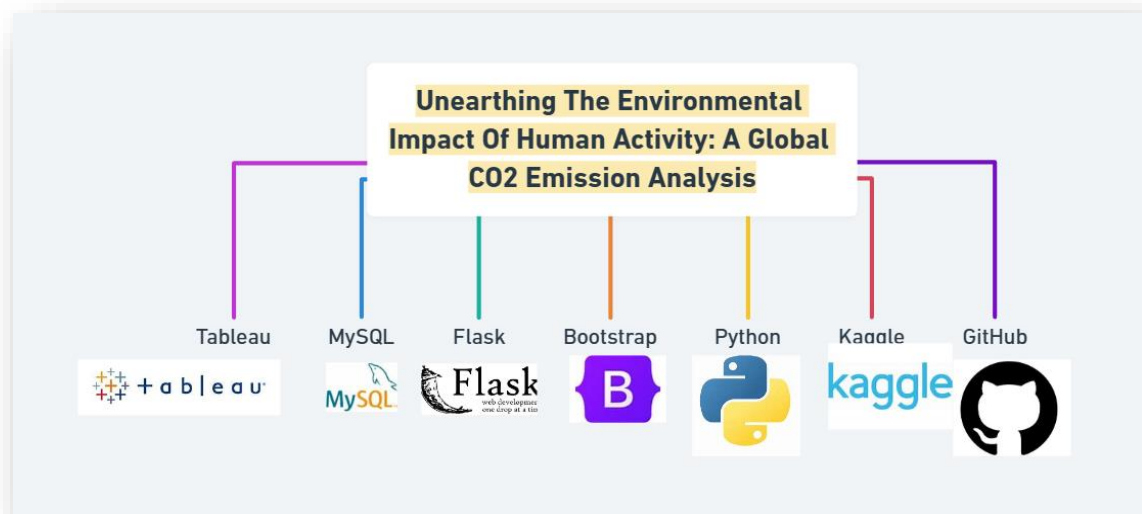
Technology Stack

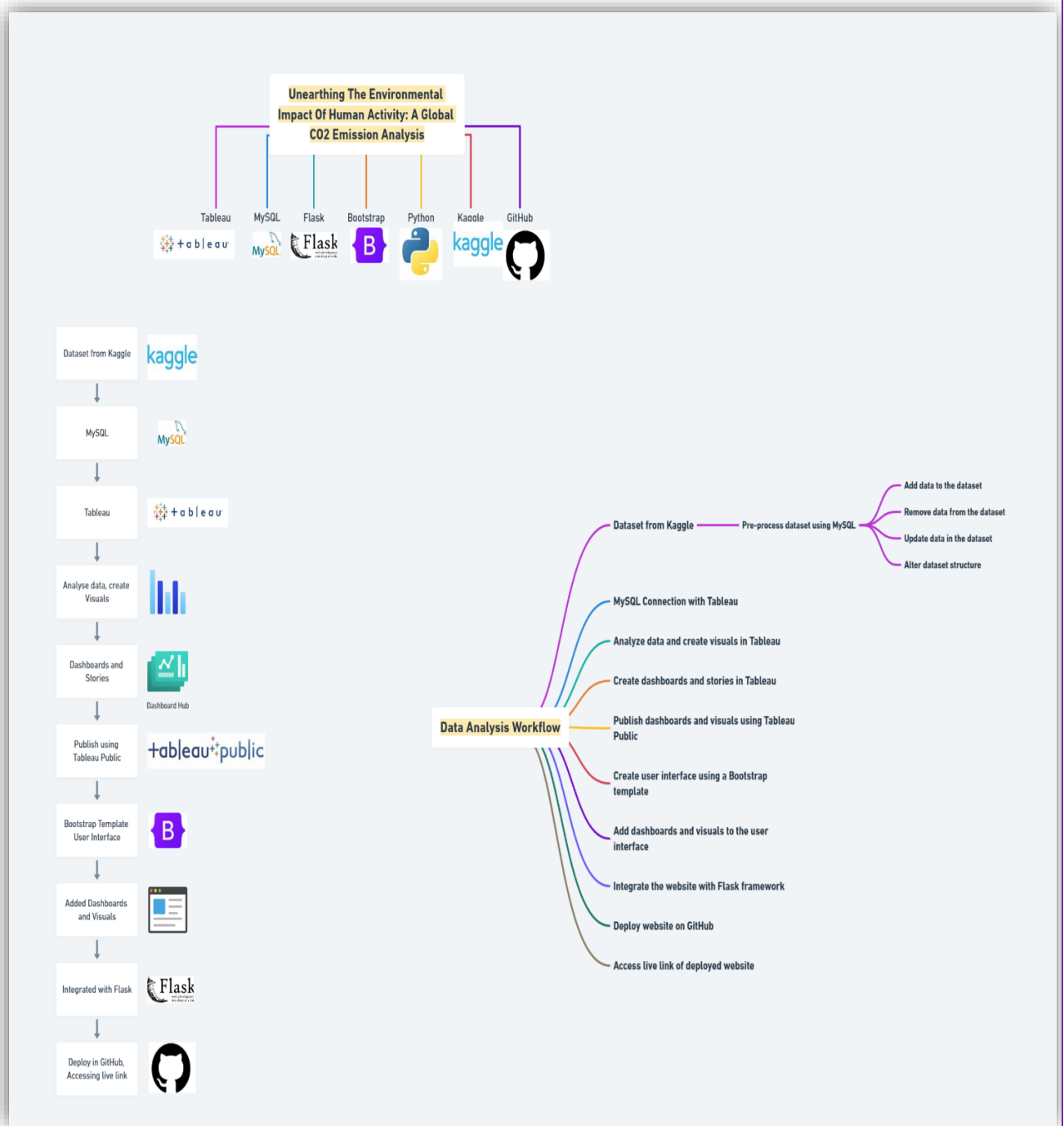| Date	27 Oct. 2023
Team ID	Team-591295
Project Name	Unearthing the Environmental Impact of Human Activity: A Global CO2 Emission Analysis
Maximum Marks	4 Marks

Table-1: Components & Technologies:

S. No	Component	Description	Technology
1	Dataset from Kaggle	Data source for analysis	Kaggle dataset or other data sources
2	MySQL Database	Data storage, cleaning, preprocessing	MySQL database management
3	MySQL Connection with Tableau	Connect MySQL with Tableau for data extraction	Tableau Desktop for MySQL connection
4	Data Analysis and Visualization (Tableau)	Analyse data, create visualizations, dashboards	Tableau Desktop for data analysis and visualization
5	Publishing with Tableau Public	Publish dashboards and stories	Tableau Public for sharing
6	User Interface with Bootstrap	Create a user-friendly web interface	Bootstrap framework for web development
7	Integration with Flask	Develop a web application for hosting visuals	Flask for web application development
8	Website Integration	Embed Tableau visuals into the website	HTML, CSS, and JavaScript for web development
9	Version Control and Deployment (Git/GitHub)	Manage version control and deployment	Git for version control, GitHub for hosting
10	Deployment and Hosting	Deploy and host the web application	GitHub Pages and Hostinger web hosting services

Technology Stack:

What we did in brief:

1. Dataset from Kaggle
2. Use MySQL to add, remove, update and alter the dataset (pre-processing using MySQL)
3. MySQL Connection with Tableau
4. Analyse data, create Visuals,
5. Dashboards and Stories
6. Publish using tableau public.
7. Using a bootstrap template created user interface
8. Added these dashboards and visuals
9. By using flask, integrated the website.
10. Deploy in GitHub, Accessing live link

Unearthing The Environmental Impact Of Human Activity: A Global CO2 Emission Analysis

Tableau | MySQL | Flask | Bootstrap | Python | Kaggle | GitHub

Dataset from Kaggle → MySQL → Tableau → Analyse data, create Visuals → Dashboards and Stories → Publish using Tableau Public → Bootstrap Template User Interface → Added Dashboards and Visuals → Integrated with Flask → Deploy in GitHub, Accessing live link

Dashboard Hub

Data Analysis Workflow

- Dataset from Kaggle → Pre-process dataset using MySQL
  - Add data to the dataset
  - Remove data from the dataset
  - Update data in the dataset
  - Alter dataset structure
- MySQL Connection with Tableau
- Analyze data and create visuals in Tableau
- Create dashboards and stories in Tableau
- Publish dashboards and visuals using Tableau Public
- Create user interface using a Bootstrap template
- Add dashboards and visuals to the user interface
- Integrate the website with Flask framework
- Deploy website on GitHub
- Access live link of deployed website

Wanna See my Work!