Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	26th October 2023
Team ID	591144
Project Name	Depression: A Mental Disorder
Max. Marks	4 marks

Technical Architecture:
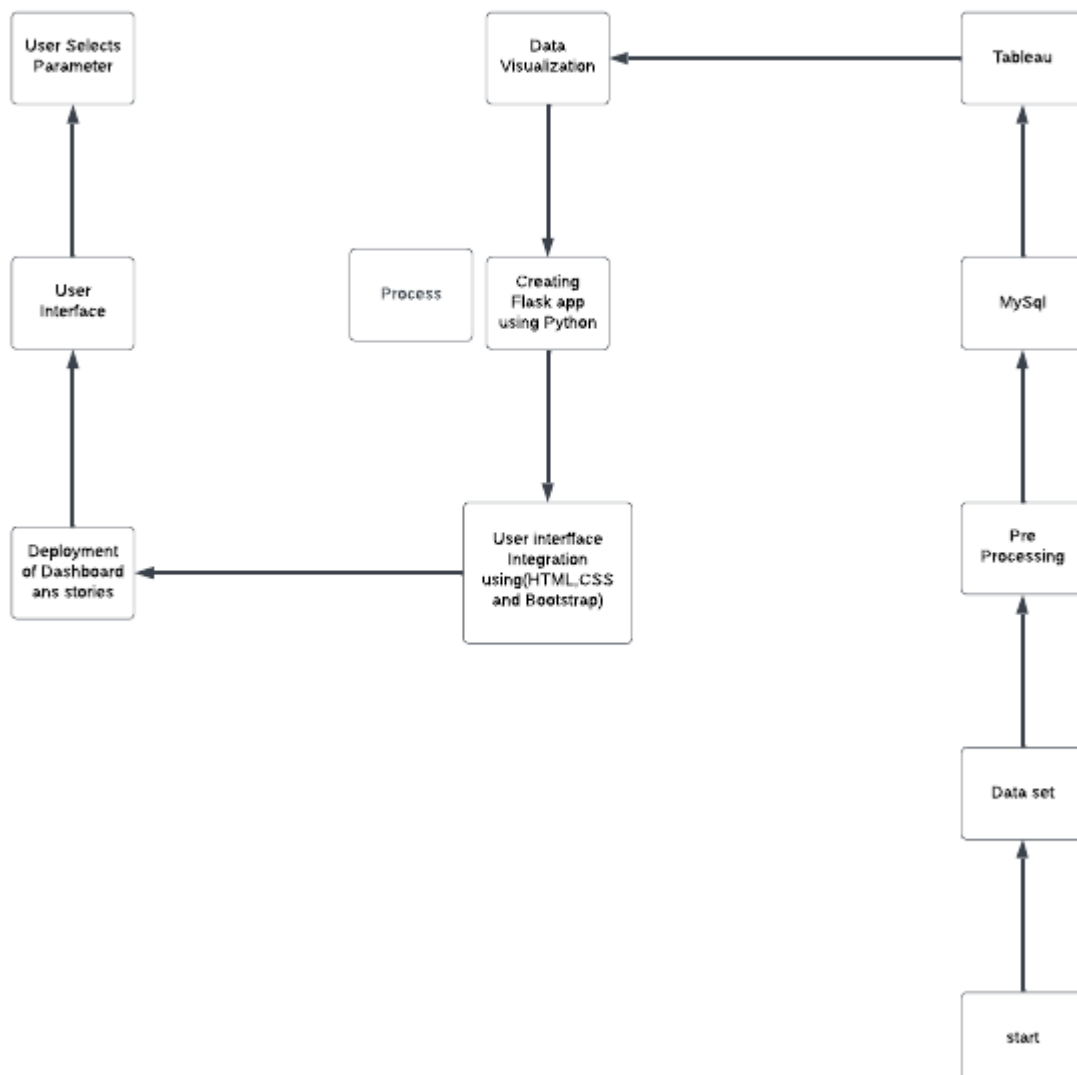
Table-1: Components & Technologies:

Sno	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI	HTML, CSS, JavaScript / Angular JS / React JS.
2.	Database	Collect the Dataset Based on the Problem Statement	File Manager, MySQL, NoSQL, etc.
3.	File Storage/ Data	File storage requirements for Storing the dataset	Local System, Google Drive Etc
4.	Frame Work	Used to Create a web Application, Integrating Frontend and Back End	Python Flask, Tableau Public etc
5.	Data Visualization	Used to create Visualizations and Dashboards,Generating Insights	Tableau
6.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

Sno.	Characteristics	Description	Technology
1.	Open-Source Frameworks	Utilization of open-source frameworks in the project	Python's Flask
2.	Security Implementations	Implementation of security and access controls	e.g. TLS/SSL encryption, role-based access control
3.	Scalable Architecture	Architectural design that justifies scalability	Microservices architecture
4.	Availability	Ensuring high availability of the application	Load balancers, distributed server setup
5.	Performance	Considerations for optimizing application performance	Caching, use of Content Delivery Networks (CDN)