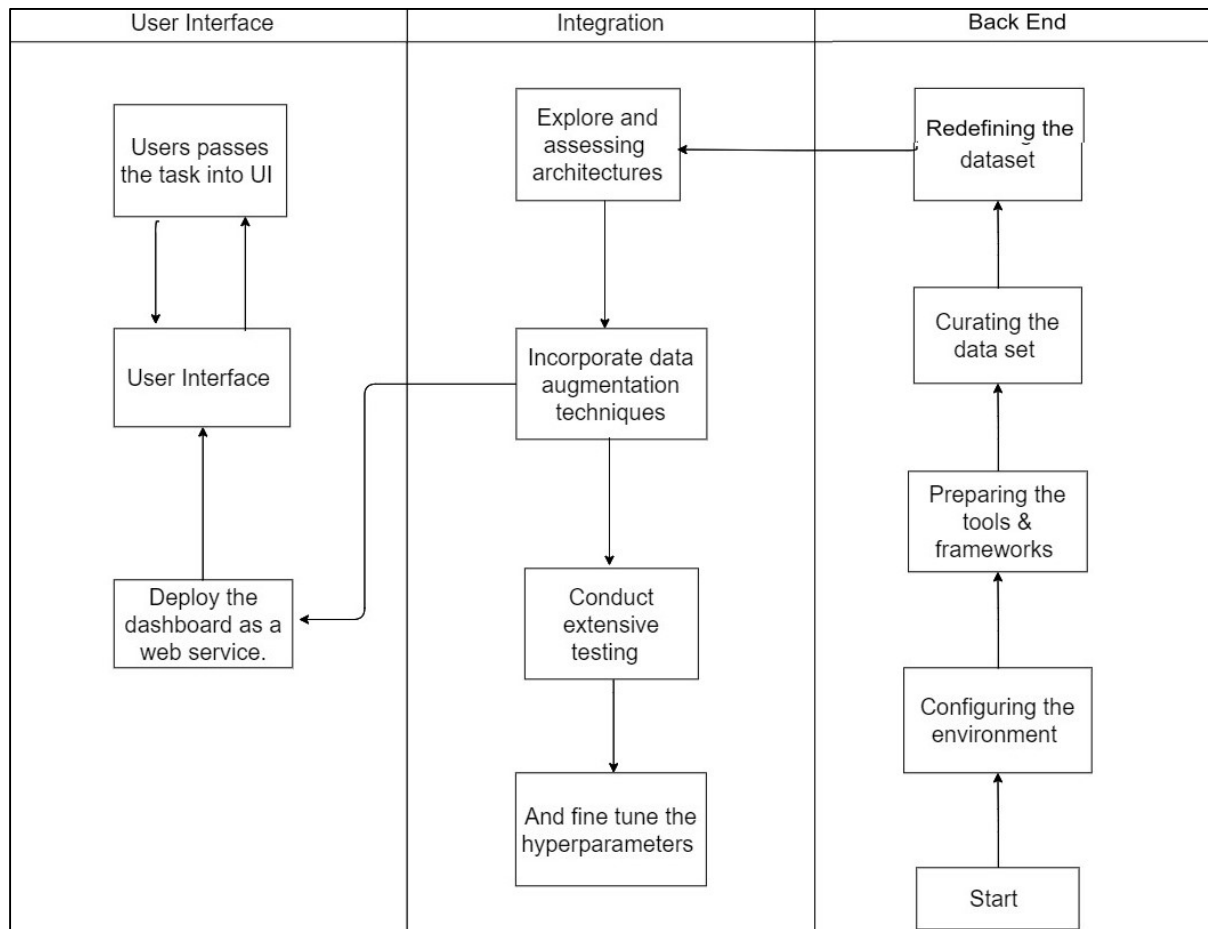


Project Design Phase-II Technology Stack (Architecture & Stack)

Date	27 October 2023
Team ID	PNT2023TMID591251
Project Name	Project - Vande Bharat Express: Pioneering India's High-Speed Rail Journey
Maximum Marks	20 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2



Guidelines:

1. Include all the processes (As an application logic / Technology Block)
2. Provide infrastructural demarcation (Local / Cloud)
3. Indicate external interfaces (third party API's etc.)
4. Indicate Data Storage components / services

Table-1: Components & Technologies:

S. No	Component	Description	Technology
1.	User Interface	How user interacts with application	Tableau Dashboard
2.	Application Logic	Logic for a process in the application	Python
3.	Software	To make changes and visualize the data	Tableau
4.	Database	Data Type, Configurations etc.	MySQL
5.	Cloud Database	Database Service on Cloud	Google Cloud SQL
6.	File Storage	File storage requirements	Storage Service or Local File system

Table-2: Application Characteristics:

S. No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Technology of Opensource framework
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	Justify the scalability of architecture	Technology used
4.	Availability	Justify the availability of application	Technology used
5.	Performance	Design consideration for the performance of the application	Technology used