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

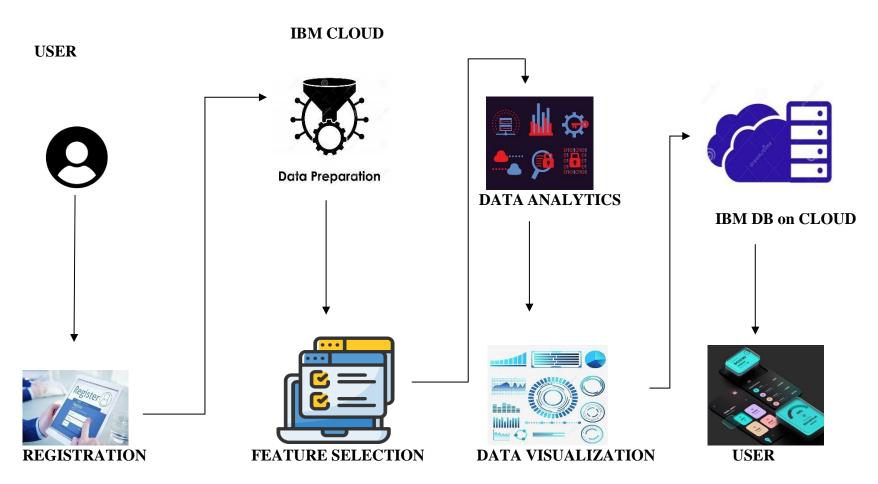| Date	03 October 2022
Team ID	PNT2022TMID22160
Project Name	AIRLINES DATA ANALYTICS FOR AVIATION INDUSTRY
Maximum Marks	4 Marks

Technical Architecture:

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User can Interact with web Application	HTML, CSS, JavaScript .
2.	Data Preparation	Pre processing of data should be done	Python
3.	Feature Selection	Feature selection of Dataset using Correlation Feature Selection method.	Python
4.	Data Analytics	Predication of Flight delay using Decision Tree.	Python
5.	Data Visualization	Data Type, Configurations etc.	python
6.	Data Storage	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	User Interface	Dashboard showing the details of the flight Delay	HTML, CSS, JavaScript.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Security Implementations	The primary security concern is for user accounts, so a proper login mechanism should be used to avoid hacking.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
2.	Availability	The system shall be available 24 hours a day 7 days a week. User can access at anytime.	
3.	Performance	The system should require a fair amount of speed especially while browsing through the catalogue.	