

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

Team ID	PNT2022TMID16657
Project Name	Airlines Data Analytics for Aviation Industry

Technical Architecture:

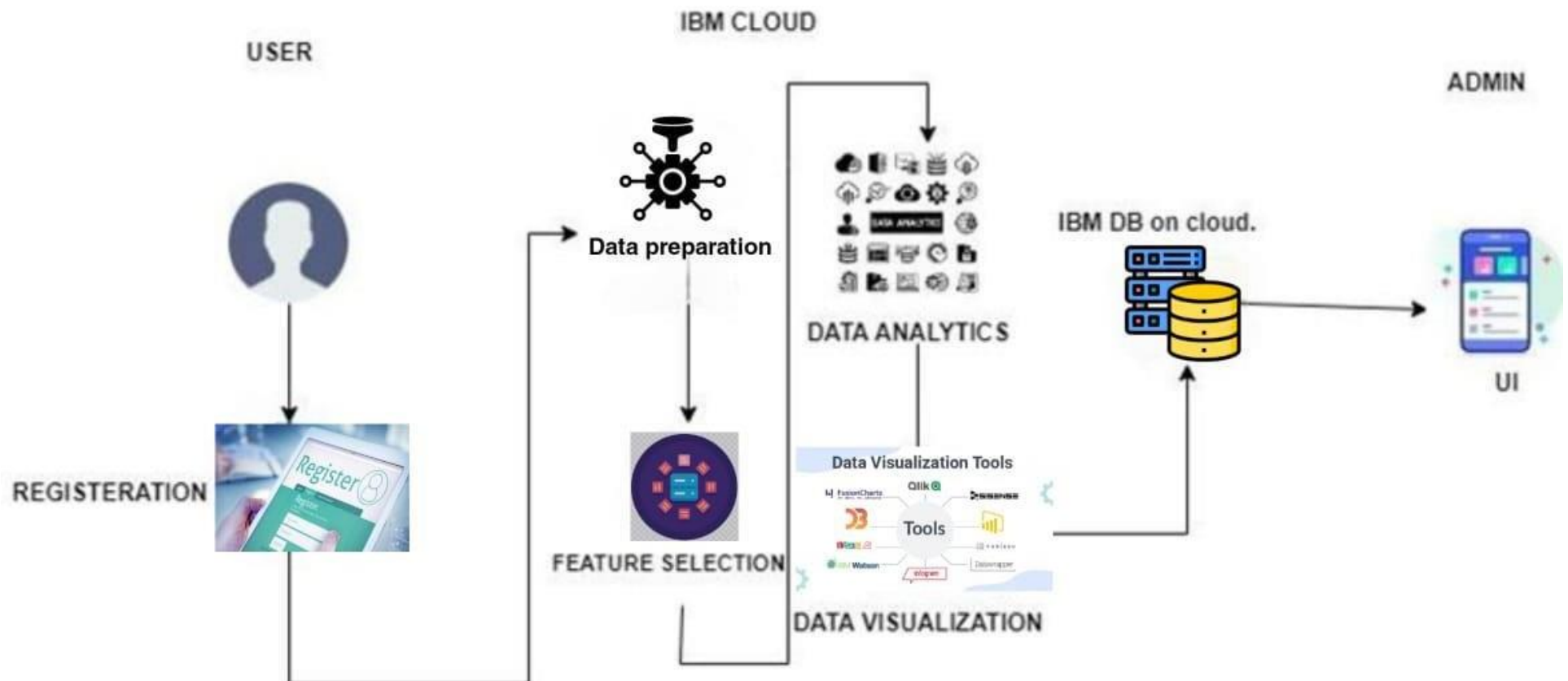


Table-1 : Components & Technologies:

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

Table-2: Application Characteristics:

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