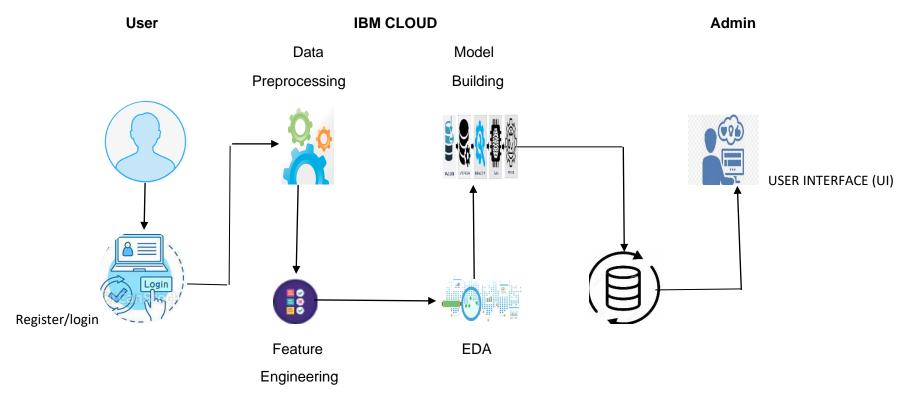
## Project Design Phase-II Technology Stack (Architecture & Stack)

Date	03 October 2022	
Team ID	PNT2022TMID17752	
Project Name	A New Hint to Transportation-Analysis	
	of the NYC Bike Share System	
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 Pre processing	Pre processing of data should be done	Python
3.	Feature Engineering	Feature engineering of Dataset by adding new values to the existing dataset.	Python
4.	Exploratory Data Analysis	Exploring the data using boxplot, pie plot, scatter plot etc	Python
5.	Model Building	Build the model using machine learning algorithm	python
6.	Data Storage	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	User Interface	Dashboard showing the details of the trip duration, no of trips, bike usage etc	HTML,CSS, JavaScript.

## Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	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, 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	