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

Date	03 October 2022
Team ID	PNT2022TMID32291
Project Name	A new hint to transportation- Analysis of the NYC bike share system
Maximum Marks	4 Marks

Technical Architecture:
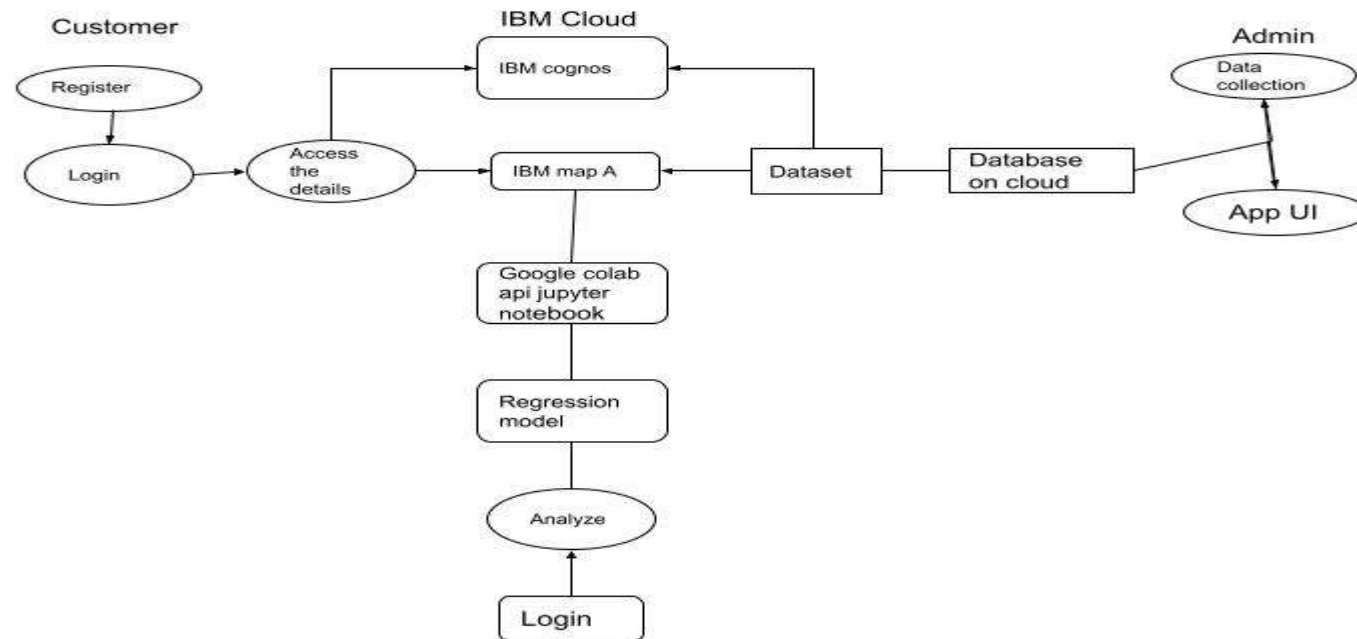
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	1. Display the visualization of the analysed data 2. Display the inferences from the analysed data	HTML, CSS, JavaScript and IBM Cognos
2.	Application Logic-1	Display details	HTML
3.	Database	Data Type, Configurations etc.	MySQL
4.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
5.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
6.	External API-1	To map the Citi Bike ride in NYC	IBM Map API, etc.
7.	External API-2	Analysis of the data	Google Colab, Jupyter Notebook
8.	Machine Learning Model	To plot graphs and predict values	Regression models
9.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Local System Cloud Server Configuration : IBM Cloud	Local, Cloud Foundry, Kubernetes, etc.