

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

Date	16 October 2022
Team ID	PNT2022TMID32188
Project Name	A New Hint to Transportation-Analysis of the NYC Bike Share System
Maximum Marks	4 Marks

Technical Architecture:

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

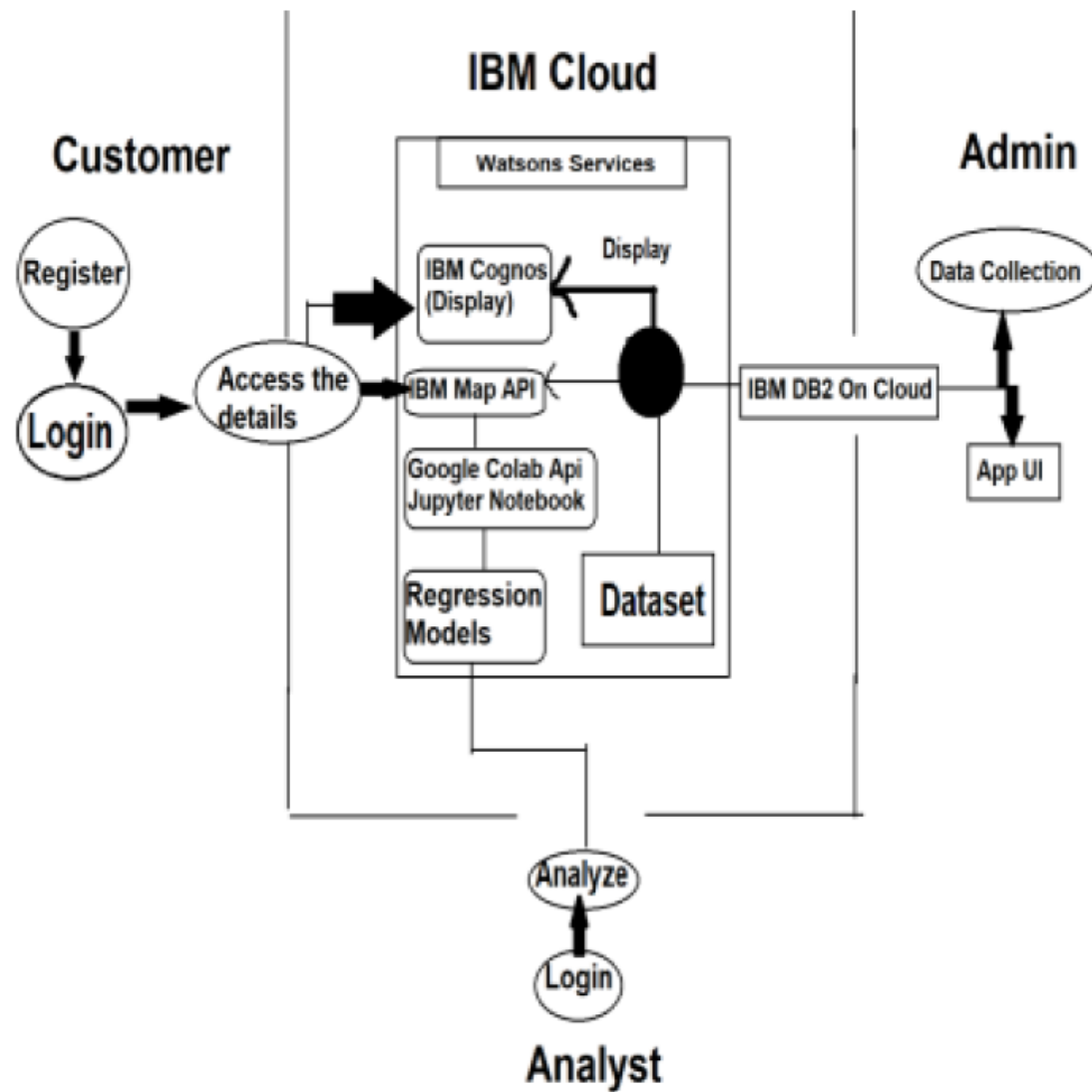


Table-1 : Components & Technologies:

Component	Description	Technology
User Interface	1. Display the visualization of the analysed data 2. Display the inferences from the analysed data	HTML, CSS, JavaScript and IBM Cognos
Application Logic-1	Display details	HTML
Database	Data Type, Configurations etc.	MySQL
Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
External API-1	To map the Citi Bike ride in NYC	IBM Map API, etc.
External API-2	Analysis of the data	Google Colab, Jupyter Notebook
Machine Learning Model	To plot graphs and predict values	Regression models
Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Local System Cloud Server Configuration : IBM Cloud	Local, Cloud Foundry, Kubernetes, etc.