Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	03 October 2022
Team ID	PNT2022TMID13004
Project Name	Project - NYC bike share system
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below:
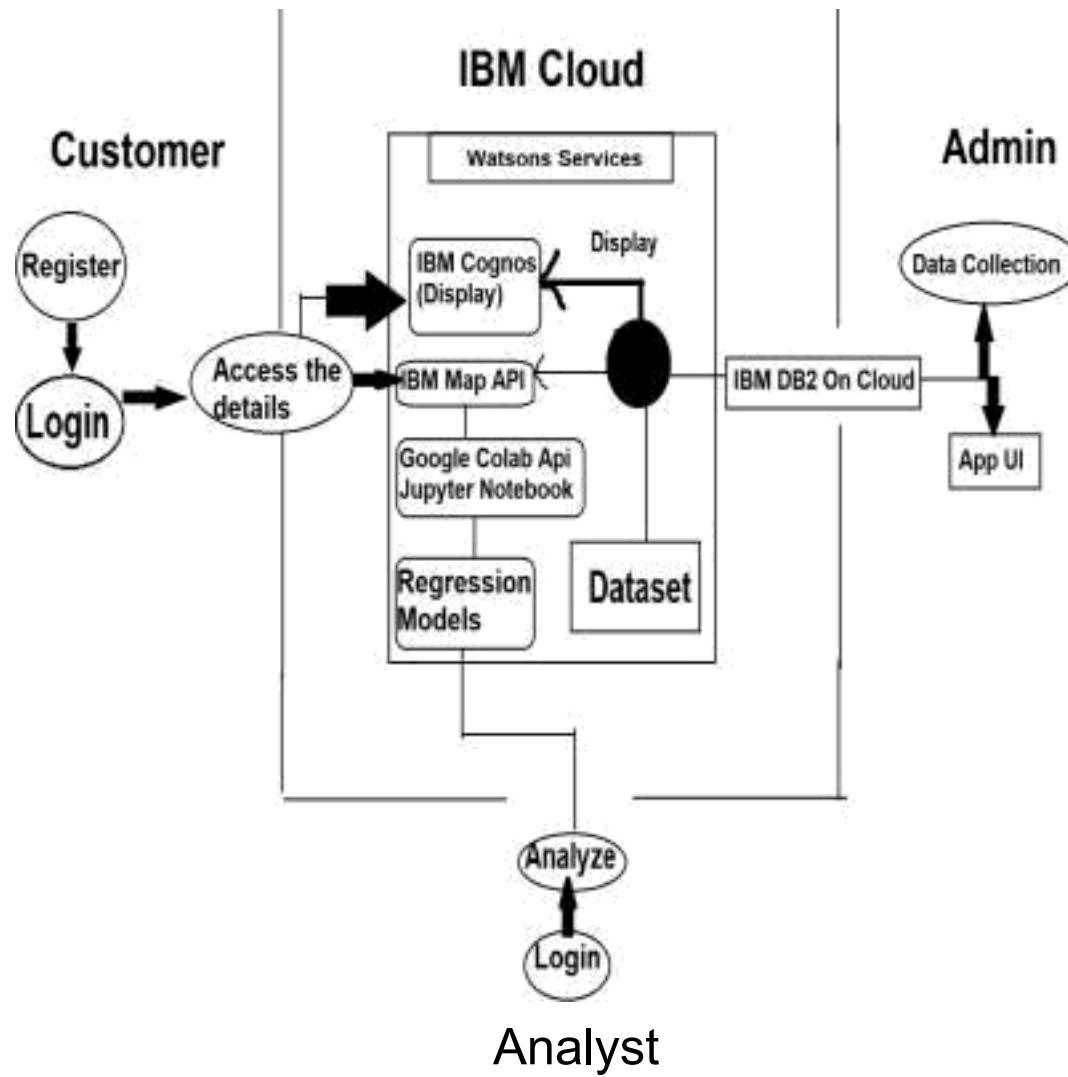
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1	User Interface	1. Display the visualization of the analyseddata 2. Display the inferences from the analysed data	HTML, CSS, JavaScript andIBM 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 OtherStorage 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 SystCloud Server Configuration : IBM Cloud	Local, Cloud Foundry, Kubernetes, etc.