

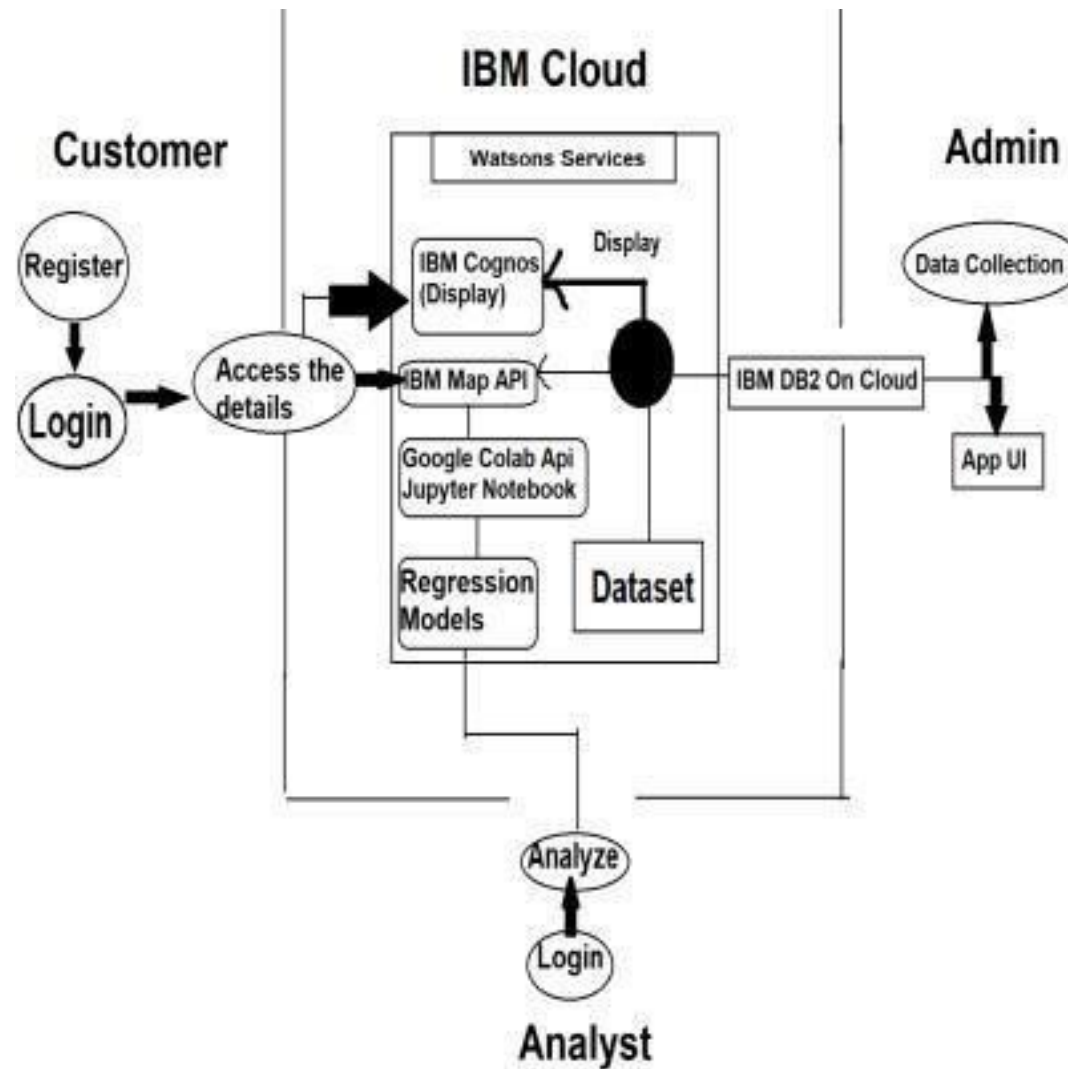
## Project Design Phase-II

### Technology Stack (Architecture & Stack)

Date	20 October 2022
Team ID	PNT2022TMID39201
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:**

<b>S.No</b>	<b>Component</b>	<b>Description</b>	<b>Technology</b>
1	User Interface	<ol style="list-style-type: none"><li>1. Display the visualization of the analysed data</li><li>2. Display the inferences from the analysed data</li></ol>	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 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.