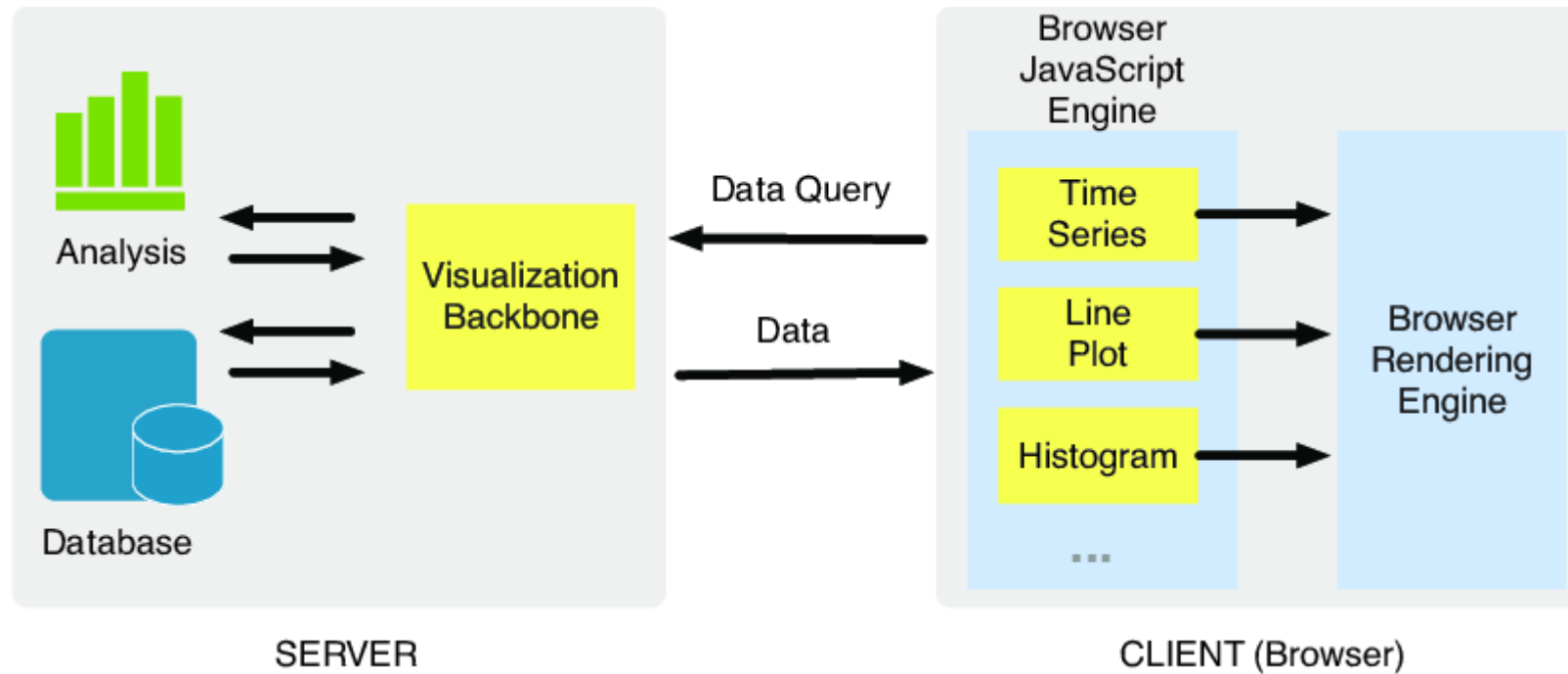


**Project Design Phase-II**  
**Technology Stack (Architecture & Stack)**

Date	03 October 2022
Team ID	PNT2022TMID02687
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.Data visualizations 2.Data insights	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	User Registration	Java / Javascript / Html
3.	Database	To store the user dataset such as name,age,email-id,password	MySQL
4.	Cloud Database	Database Service on Cloud – to store the user data and citi bike dataset	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 obtain locations of citi bike system and as well as customer locations	IBM Weather API, etc.
7.	External API-2	To do data analysis like data preprocessing and data preparaing and applying algorithms	Google colab
8.	Machine Learning Model	To plot graphs based on data set and as well as algorithms to do descriptive,prescriptive and predictive analysis	Object Recognition Model, Algorithms.
9.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration:localhost Cloud Server Configuration : IBM Cloud	Local, Cloud Foundry, Kubernetes, etc.