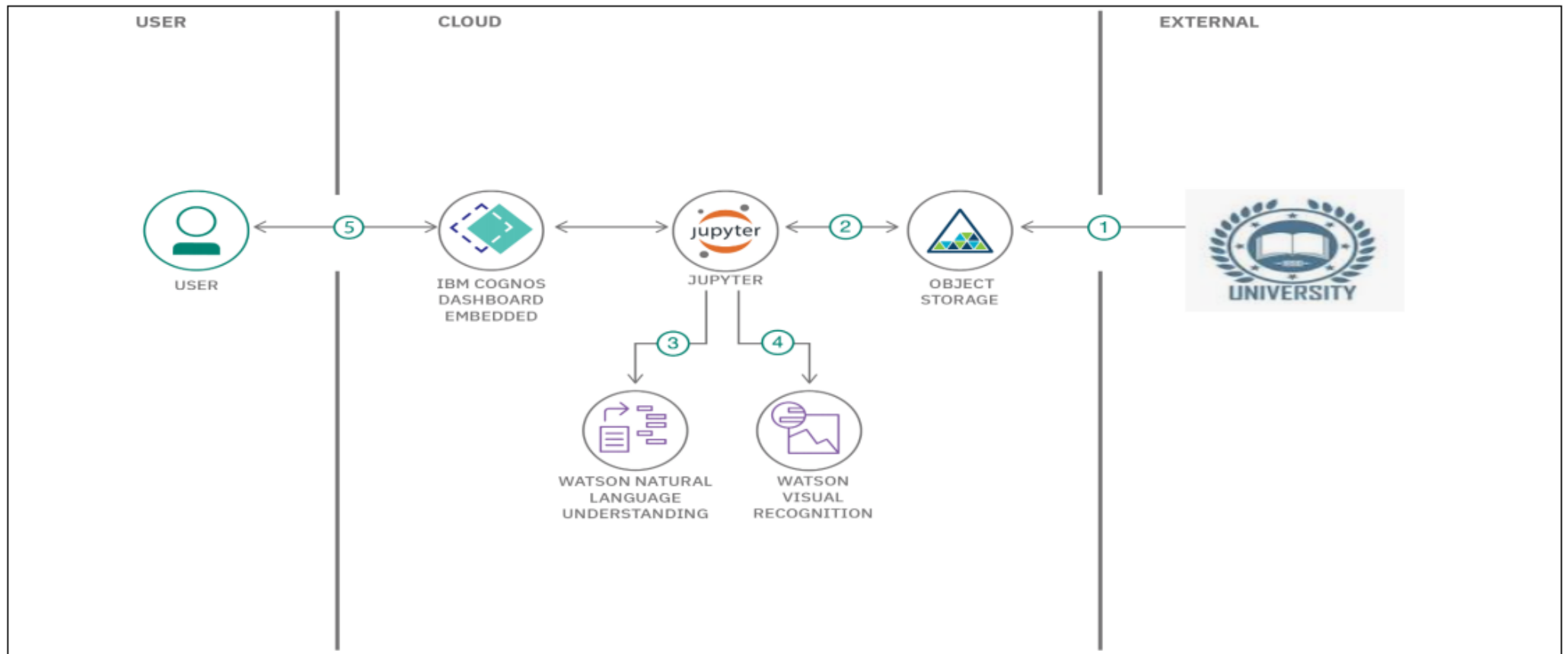


Project Design Phase-II Technology Stack (Architecture & Stack)

Date	22-10-2023
Team ID	C9F29D26001F4B299ED44A9E5DF4BEFE
Project Name	DATA DOMINATORS:A COMPARATIVE STUDY OF TOP GLOBAL UNIVERSITIES IN DATA ANALYTICS

Technical Architecture:



S.No	Component	Description	Technology
1.	User Interface	Web User Interface	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	Visualization of current trends of University by analysing its data	Java / Python
3.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
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	Purpose of External API used in the application	IBM Weather API, etc.
7.	External API-2	Purpose of External API used in the application	Aadhar API, etc.
8.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model, etc.
9.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Simplicity and efficient	Flask
2.	Security Implementations	Access permission for the particular system information changed by data administrator	SHA-256
3.	Scalable Architecture	The system must be scalable enough to support	Cloud computing platform
4.	Availability	1,000,000 visits at the same time The web dashboard will be available for the users 99.98 percent of the time every month	Cloud infrastructure
5.	Performance	Supporting 5000 users per hour must provide 1 minute or less system response time	Content delivery Networks