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

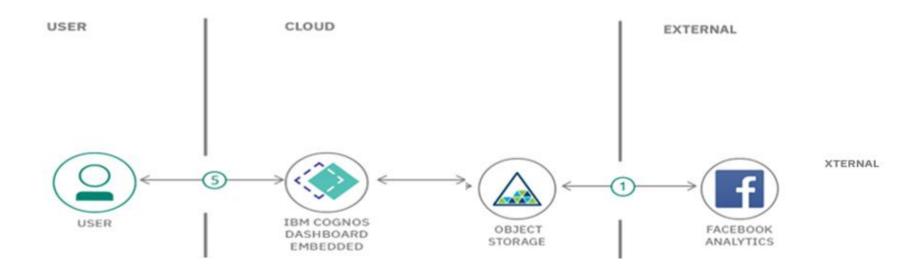| Date	20 Oct 2023
Team ID	NM2023TMID00678
Project Name	Dissecting the digital landscape :comprehensive analysis of social media

Technical Architecture:

USER   CLOUD   EXTERNAL

XTERNAL

USER — (5) — IBM COGNOS DASHBOARD EMBEDDED — OBJECT STORAGE — (1) — FACEBOOK ANALYTICS

Table-1 : Components & Technologies:

S.NO	Component	Description	Technology
1.	User Interface	Web User Interface	HTML, CSS, JavaScript
2.	Application Logic-1	Visualization of current trends of facebook by analysing its data	Data analytics
3.	Database	Data Type, Configurations etc.	SQL
4.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
5.	File Storage	File storage requirements	Local Filesystem.
6.	External API-1	Purpose of External API used in the application	Facebook API.
7.	External API-2	Purpose of External API used in the application	IBM cognos analytics
8.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local Server.

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 1,000,000 visits at the same time	Cloud computing platform
4.	Availability	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