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

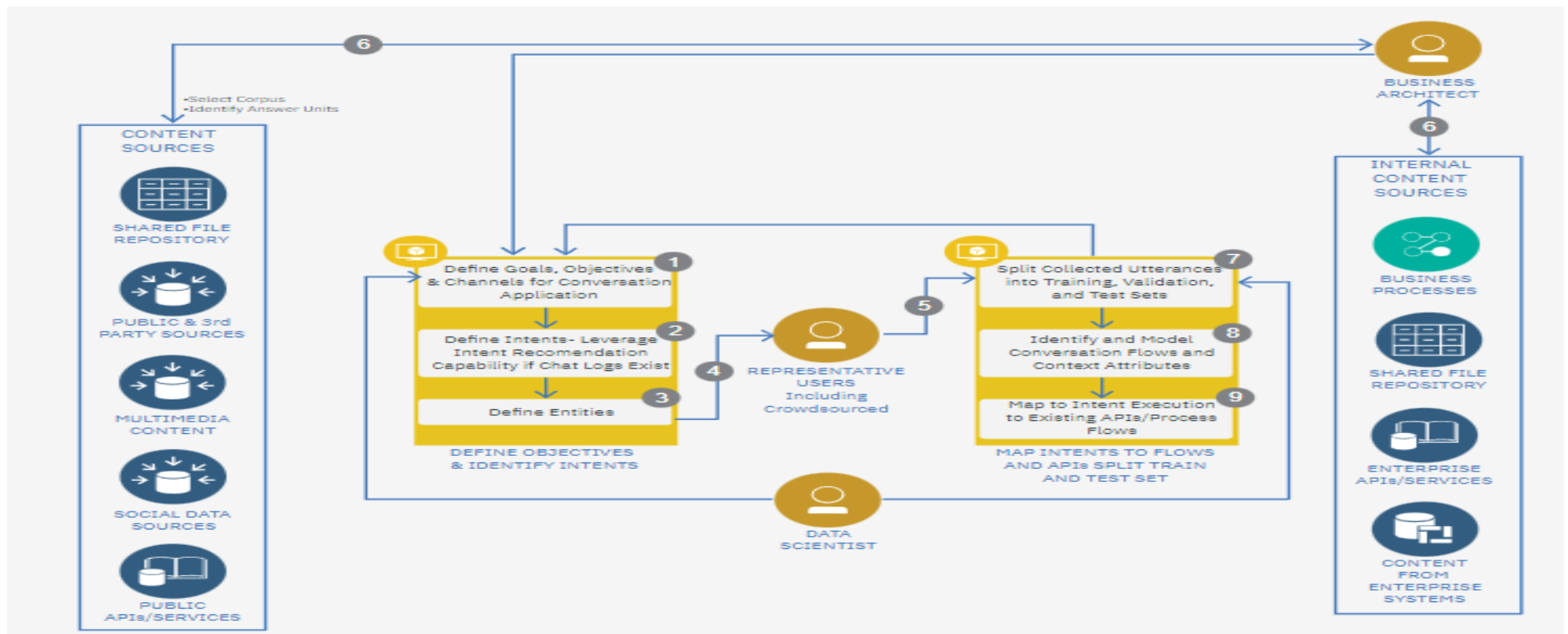| Date	15 October 2022
Team ID	PNT2022TMID27760
Project Name	Project - AI based discourse for Banking Industry
Maximum Marks	4 Marks

Technical Architecture:

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot	HTML, CSS, JavaScript
2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson STT service
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant
7.	File Storage	File storage requirements	IBM Block Storage
8.	External API-1	Purpose of External API used in the application	IBM
9.	External API-2	Purpose of External API used in the application	Aadhar API
10.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	IBM Watson
2.	Security Implementations	List all the security / access controls implemented,	PAM (Privileged Account

S.No	Characteristics	Description	Technology
		use of firewalls etc.	Management), IAM (Identity and Access Management) and Q-Radar as a Service (SOC)
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Bleu and perplexity
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Bleu and perplexity
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Bleu and perplexity