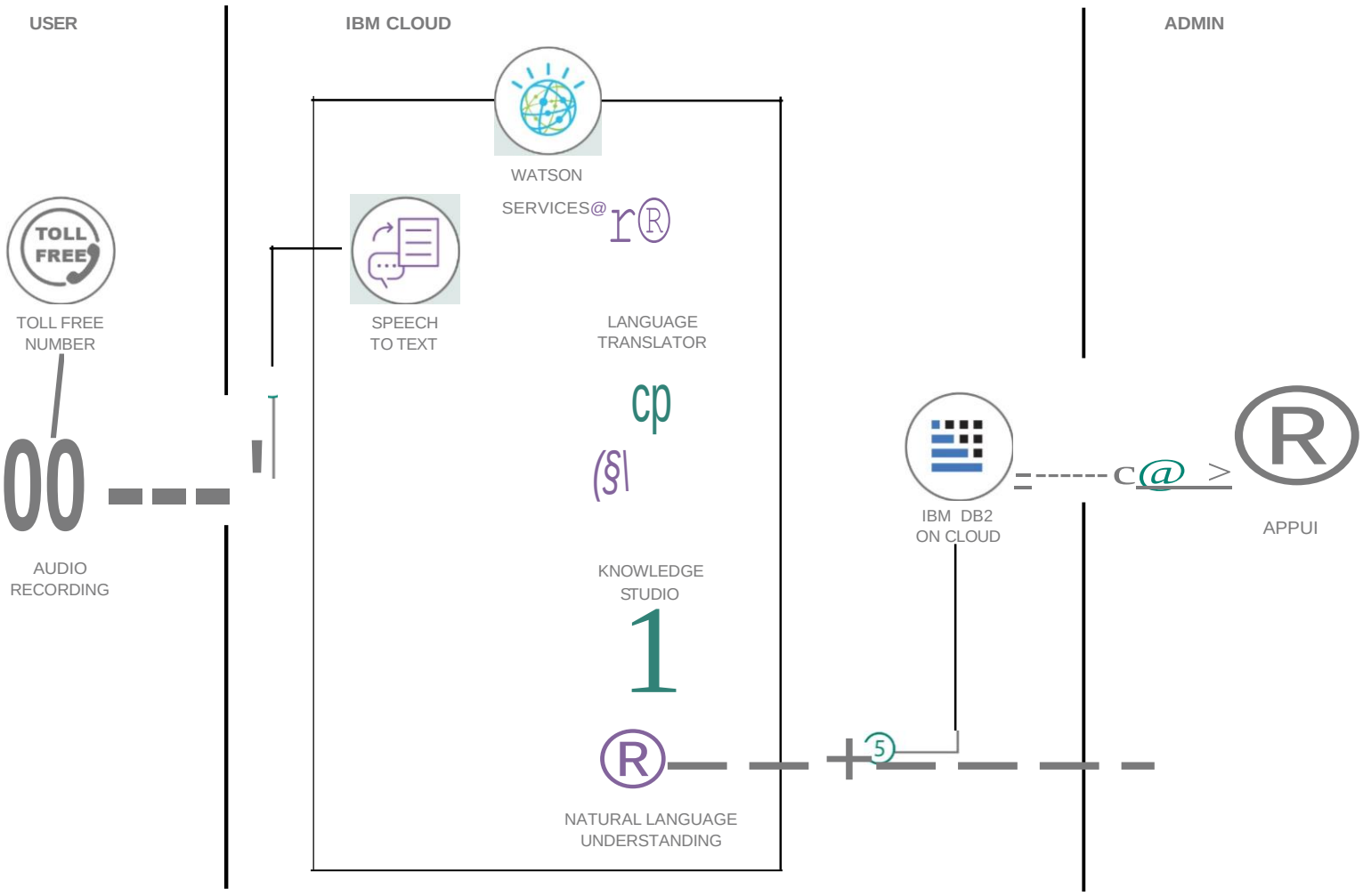
Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	28 October 2022
Team ID	PNT2022TMID45814
Project Name	Personal Expense Tracker Application
Maximum Marks	4 Marks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LANGUAGE TRANSLATOR
AUDIO RECORDING
KNOWLEDGE STUDIO
IBM DB2 ON CLOUD
APPUI
NATURAL LANGUAGE UNDERSTANDING

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chat bot etc.	HTML, CSS, JavaScript / Angular Js / React js etc.
2.	Application Logic-1	Logic for a process in the application	Java /Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson
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, etc..
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local File system
8.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	IBM Cloud, Cloud Foundry, Kubernetes,
9.	External API-1	Purpose of External API used in the application	IBM Weather API, etc.
10.	External API-2	Purpose of External API used in the application	Aadhar API, etc.
11.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model, etc

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Python Flask
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	e.g. SHA-256, Encryptions, IAM Controls
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro services)	Virtual Machines
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Micro services
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	CI/CD