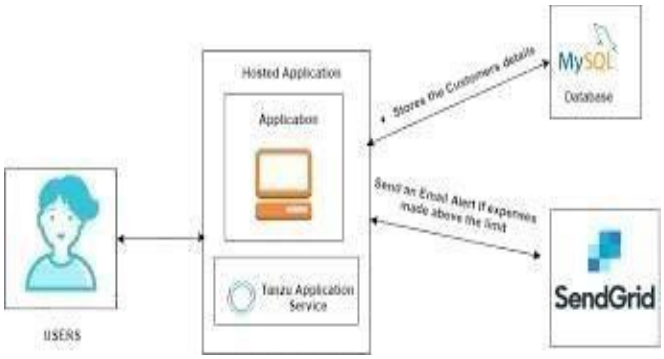
Project Phase Design-II
Technology Stack(Architecture & Stack)

Date	15 October 2022
Team ID	PNT2022TMID05753
Project Name	Personal Expense Tracker Application
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2



Guidelines:

- Include all the processes (As an application logic / Technology Block)
- Provide infrastructural demarcation (Local / Cloud)
- Indicate external interfaces (third party API's etc.)
- Indicate Data Storage components / services
- Indicate interface to machine learning models (if applicable)

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot 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 STT service
4.	Application Logic-3	Logic for a process in the	IBM Watson Assistant
		application	
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
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 Filesystem
8.	External API-1	Purpose of External API used in the application	IBM Weather API, etc.
9.	External API-2	Purpose of External API used in the application	Aadhar API, etc.
10.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model, etc.
11.	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	List the open-source frameworks used	Technology of Opensource framework
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Technology used

S.No	Characteristics	Description	Technology
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Technology used
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Technology used

References:

https://www.google.com/search?q=technology+architecture+in+personal+expense+tracker+a p lication HYPERLINK "http://www.google.com/search?q=technology%2Barchitecture%2Bin%2Bpersonal%2Bexpen se%2Btracker%2Bapplication&rlz=1C1CHBD_enIN964IN964&sxsrf=ALzs"& HYPERLINK "http://www.google.com/search?q=technology%2Barchitecture%2Bin%2Bpersonal%2Bexpen se%2Btracker%2Bapplication&rlz=1C1CHBD_enIN964IN964&sxsrf=ALzs"rlz=1C1CHBD_enI N964IN964 HYPERLINK "http://www.google.com/search?q=technology%2Barchitecture%2Bin%2Bpersonal%2Bexpen se%2Btracker%2Bapplication&rlz=1C1CHBD_enIN964IN964&sxsrf=ALzs"& HYPERLINK "http://www.google.com/search?q=technology%2Barchitecture%2Bin%2Bpersonal%2Bexpen se%2Btracker%2Bapplication&rlz=1C1CHBD_enIN964IN964&sxsrf=ALzs"sxsrf=ALzs afMuh87od1d9Xo0wKtGykEkdKrQw:1665758311632&source=lnms&tbm=isch&sa=X&ved=2a hUKEwjL0cijd_6AhWE8DgGHdCWDoEQ_AUoAXoE CAEQAw&biw=1366&bih=600&dpr=1#imgrc=Zg09J6_hmttvEM