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

Date	03October 2022
Team ID	PNT2022TMID48497
Project Name	Personal Expense Tracker Application
Maximum Marks	4 Marks

Technical Architecture:

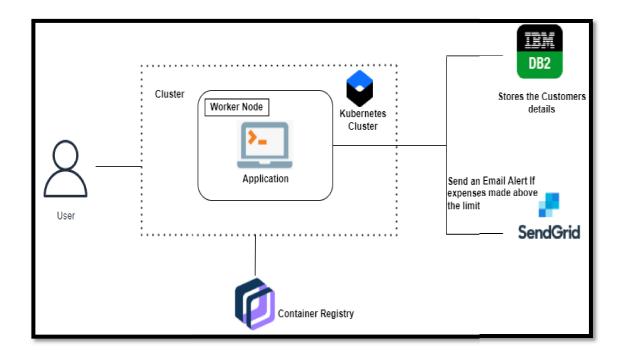


Table-1: Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with	HTML, CSS,
		application e.g.	JavaScript / Angular
		Web UI, Mobile App,	Js / React Js etc.
		Chatbot etc.	
2.	Application Logic-1	The application contains	Python
		the sign in/signup page	
		where the user will login	
		into the main dashboard	
3.	Application Logic-2	Dashboard contains the	IBM Watson STT
		fields like Add income,	service
		Add expenses, Save	
		Money	

4.	Application Logic-3	The user will get expense	IBM Watson
		report in the graph form	Assistant, SendGrid
		and also get alerts if the	
		expense limit exceeds	
5.	Database	The income can be stored	MySQL
		in the database	
6.	Cloud Database	With the use of database	IBM DB2, IBM
		service on cloud, the user	Cloudant etc.
		data are stored in a well	
		secured manner	
7.	File Storage	IBM block storage used	IBM Block Storage or
		the financed data of the	Other Storage Service
		user	or Local Filesystem
8.	Infrastructure (Server	Application deployment	Local, Cloud
	/ Cloud)	on local system or server	Foundry, Kubernetes,
			etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask framework in python is used to implement this application	Python – Flask
2.	Security Implementations	This application provides high security to the user financial data. It can ba done by using the container registry in IBM cloud.	Container registry, Kubernetes cluster
3.	Scalable Architecture	Expense tracker is a lifetime access supplication. It's demand will increases when the users income are high	Container registery, Kubernetes cluster
4.	Availability	This application will be available to the user at any part of time	Container registery, Kubernetes cluster
5.	Performance	.the performance will be high because there will be no network traffics in the application	Kubernetes cluster