

Project Design Phase-II

Technology Architecture

Date	03 October 2022
Team ID	PNT2022MID26204
Project Name	Project – 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.

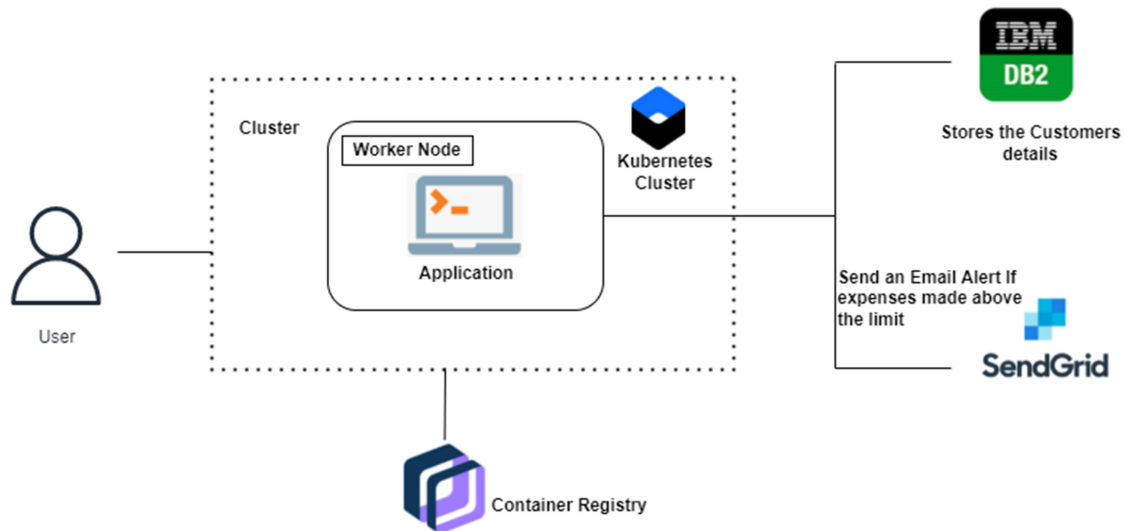


Table-1: Components & Technologies:

S.No	Component	Technology	Description
1.	User Interface	Users can interact with the application by the help of a chatbot.	HTML,CSS,Javascript, React JS.
2.	Application logic 1	The users holds the sign up page and hence the user can login to the dashboard page.	Python
3.	Application logic 2	It holds the income amount that to be entered in the field,the expenses amount field and the amount of	IBM Watson STT Service

		money that is to be saved.	
4.	Application logic 3	It will reports the expenditure in a graph format and if the amount exceeds the limit then it will alerts with an mail.	IBM Watson Assistant,Send Grid
5.	Database	The income and the expense data are stored in the MySQL database.	MySql,NoSql.
6.	Cloud Database	With the help of a IBM database hence the data is maintained in a secured manner.	IBM DB2,IBM Cloudant etc.
7.	File Storage	It helps to store the financial information of the user.	IBM Block Storage or other storage service.

Table-2: Application Characteristics:

S.No.	Characteristics	Description	Technology
1.	Open source frameworks	Flask Framework is used.	Python Flask
2.	Security Implementations	This application is used for securing the financial data with the help of container registry.	Container registry
3.	Availability	This application will be available to the user with user's convenience.	Container registry,Kubernetes cluster.
4.	Performance	By this application there is no traffic error while using this functionalities.	Kubernetes cluster
5.	Scalability	Its demand will increase when the user's income are high.	Container registry,Kubernetes cluster.