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

Date	29 October 2022
Team ID	PNT2022TMID35388
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

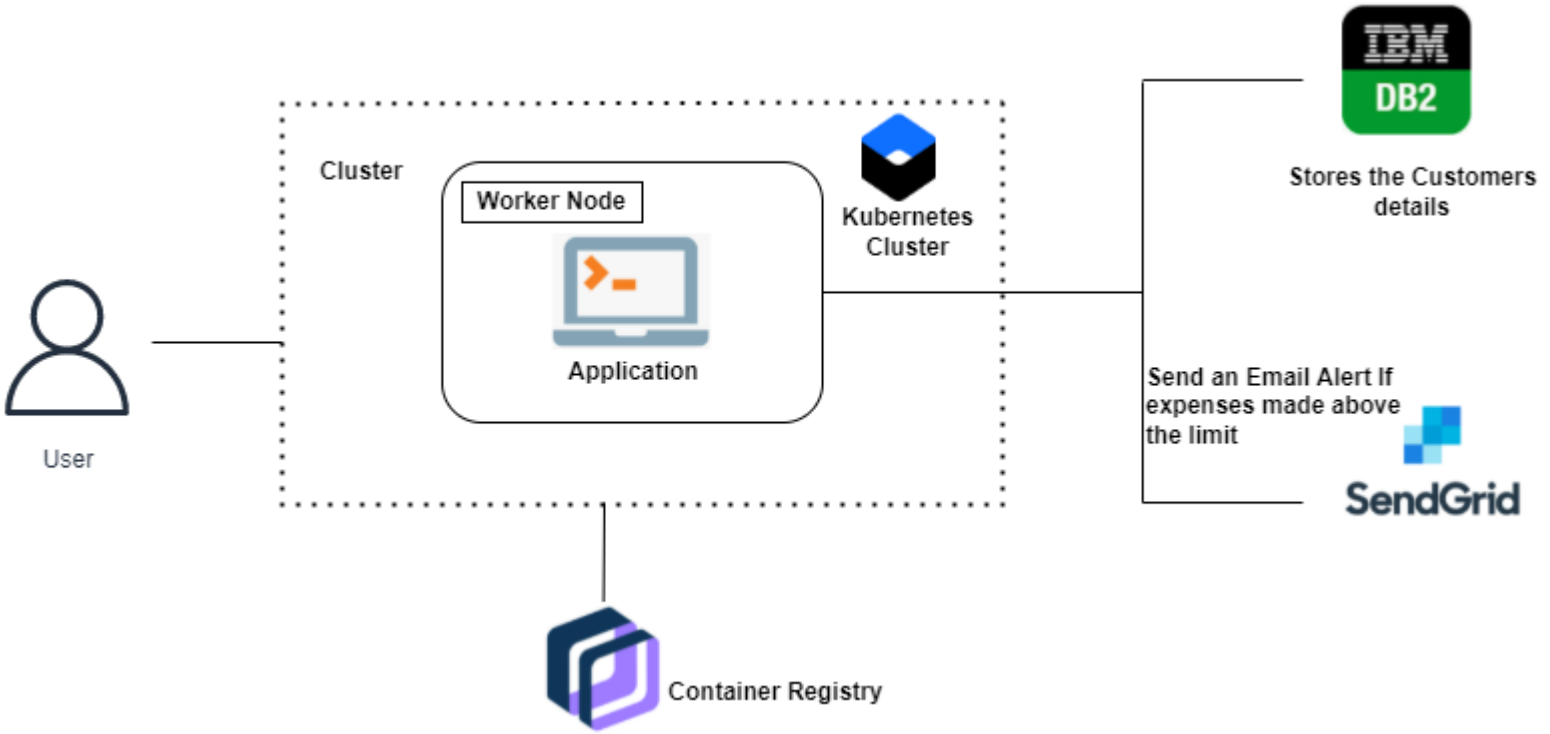

Table-1: Components & Technologies:

S. No	Component	Description	Technology
1.	User Interface	Usage of chatbot helps user to interact with application	HTML, CSS, JavaScript etc.
2.	Application Logic-1	This application enables the user to login into the main dashboard	Python
3.	Application Logic-2	Helps to collect input from the user	IBM Watson STT service
4.	Application Logic-3	User will get expense report in the form of graph and an email will be sent if expense limit exceeds	IBM Watson Assistant SendGrid
5.	Database	The inputs are stored in MySQL database	MySQL, NoSQL, etc.
6.	Cloud Database	The user data is stored in well secured manner with the help of Database Service on cloud	IBM DB2, IBM Cloudant, etc.
7.	File Storage	Financial data of the user is stored in IBM Block Storage	IBM Block Storage or Other Storage Service or Local Filesystem

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	Container Registry in IBM cloud provides high security to the user financial data	Container Registry, Kubernetes Cluster
3.	Scalable Architecture	Expense Tracker is a life time access supplication. Its demand will increase when the user's incomes are high.	Container Registry, Kubernetes Cluster
4.	Availability	Availability of the application to the user at any time.	Container Registry, Kubernetes Cluster
5.	Performance	The Performance rate will be high, due to no network traffics in the application.	Kubernetes Cluster