PROJECT DESIGN PHASE-II
TECHNOLOGY ARCHITECTURE

Date	15 October 2022
Team ID	PNT2022TMID04480
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

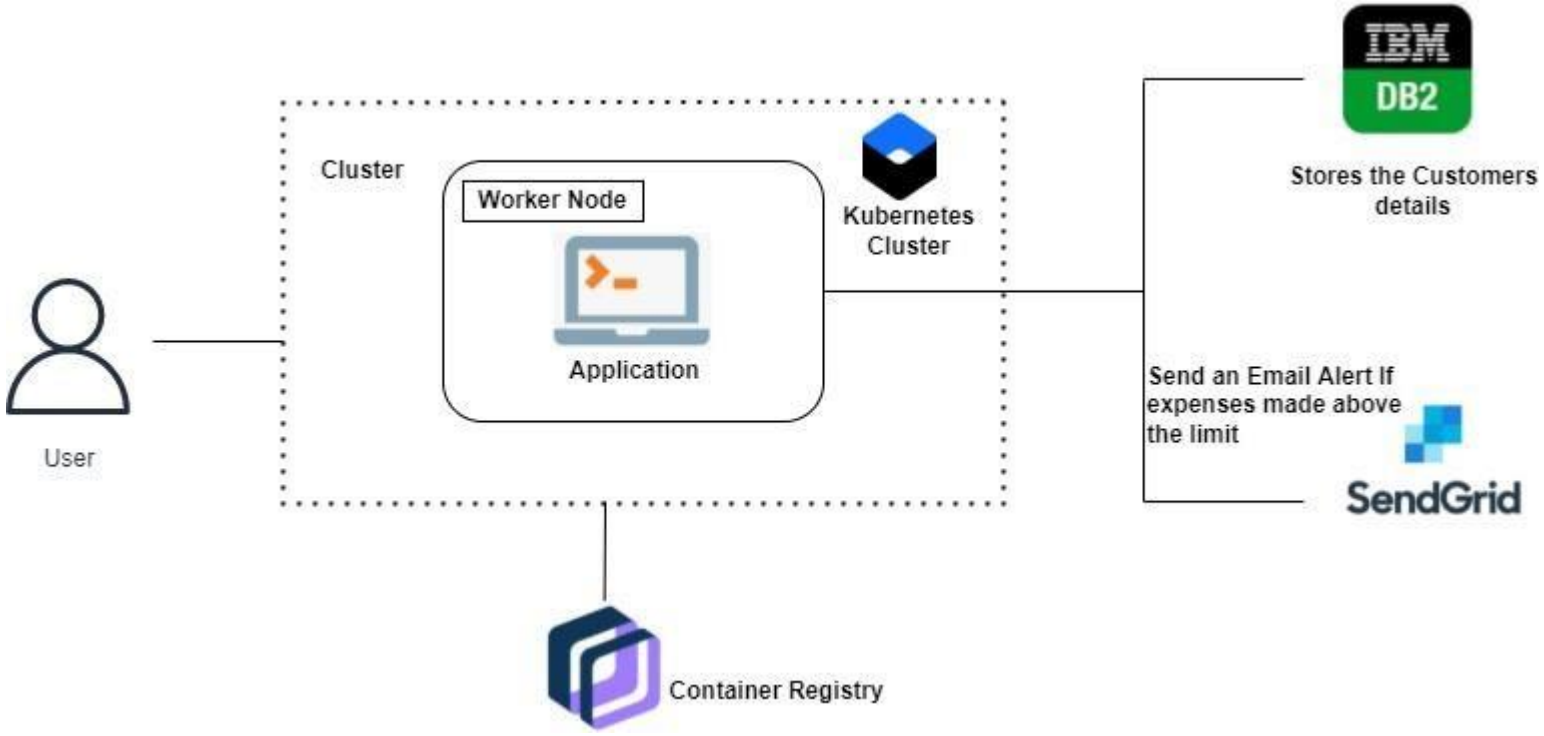

Table-1: Components & Technologies:

S.No.	Component	Description	Technology
1.	User Interface	Chatbots allow users to interact with the application	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	A user logs into the main dashboard using the sign in/sign up feature of the application	Java / Python
3.	Application Logic-2	Dashboard contains the fields like Add income, Add Expenses, Save Money	IBM Watson STT service
4.	Application Logic-3	An expense report will be presented in graph form and an alert will be sent if the expense limit exceeds	IBM Watson Assistant, SendGrid
5.	Database	The Income and Expense data are stored in the MySQL database	MySQL, NoSQL, etc.
6.	Cloud Database	A database service on the cloud allows the User's data to be stored in a secure manner	IBM DB2, IBM Cloudant etc.

7.	File Storage	IBM Block Storage used to store the financial data of the user	IBM Block Storage or Other Storage Service or Local Filesystem

Table-2: Application Characteristics:

S.No.	Characteristics	Description	Technology
1.	Open-Source Frameworks	This application is implemented using the Flask Framework in Python	Python-Flask
2.	Security Implementations	A high level of security is provided by this application through the use of the IBM Container Registry in the cloud	Container Registry, Kubernetes Cluster
3.	Scalable Architecture	When a user has a high income, his/her demand for the Expense Tracker application will increase	Container Registry, Kubernetes Cluster
4.	Availability	Whenever the user wants, he or she can access this application	Container Registry, Kubernetes Cluster
5.	Performance	There will be no network traffic in the application, so it will perform well	Kubernetes Cluster