Project Design Phase-II

Technology Architecture

Date	14-10-2022
Team ID	PNT2022TMID04980
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

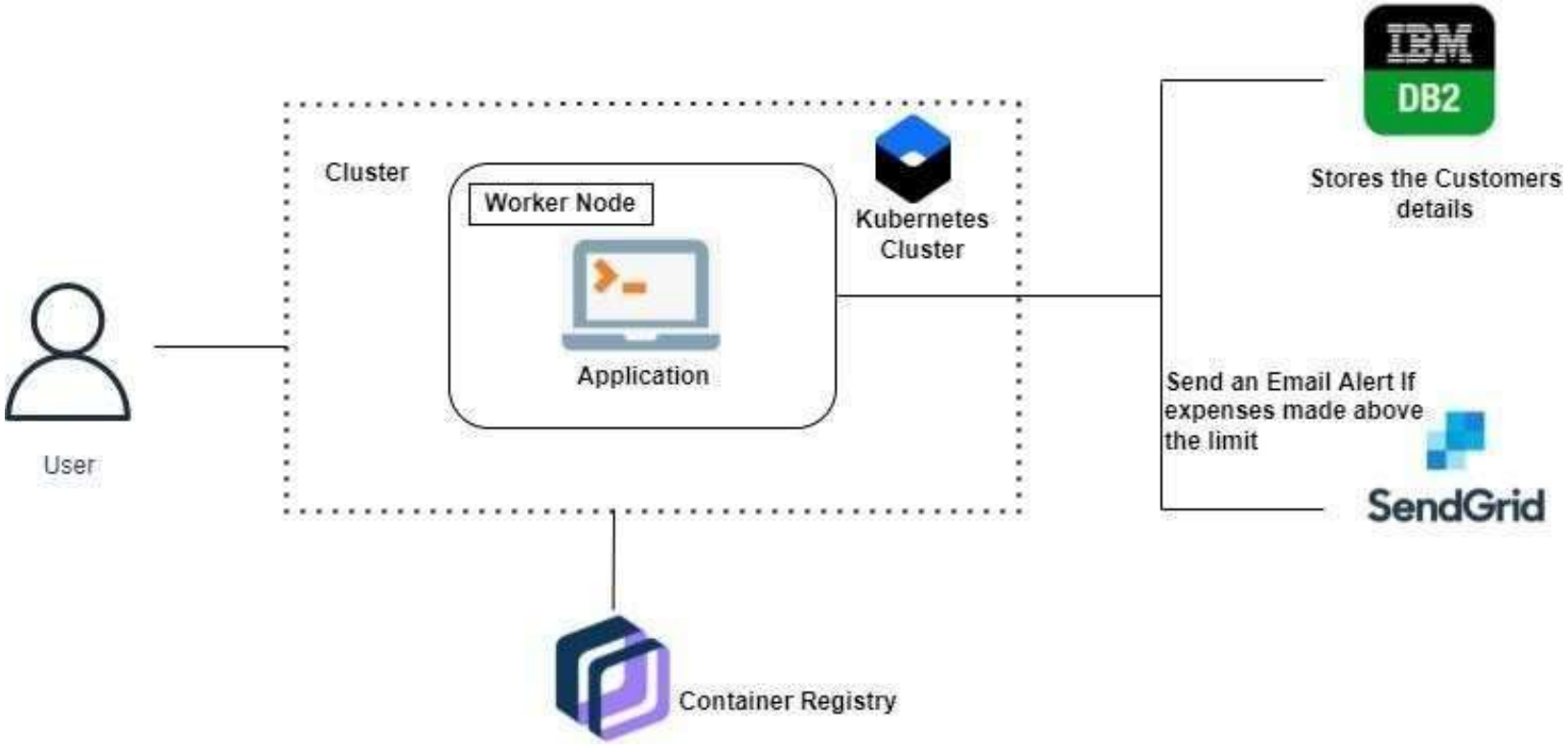

Table-1: Components & Technologies:

S.No.	Component	Description	Technology
1.	User Interface	The user can Interact with the application with use of Chatbot	HTML, CSS, JavaScript /Angular Js / React Js etc.
2.	Application Logic-1	The application contains the sign in/sign up where the user will logininto the main dashboard	Java / Python
3.	Application Logic-2	Dashboard contains the fields like Add income, Add Expenses, SaveMoney	IBM Watson STT service
4.	Application Logic-3	The user will get the expense report in the graph form and also get alerts if the expense limitexceeds	IBM Watson Assistant,SendGrid
5.	Database	The Income and Expense data are stored in the MySQL database	MySQL, NoSQL, etc.
6.	Cloud Database	With use of Database Service on Cloud, the User data are stored ina well secured Manner	IBM DB2, IBM Cloudantetc.
7.	File Storage	IBM Block Storage used to storethe Financial data of the user	IBM Block Storage or OtherStorage 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	This Application Provides high security to the user Financial data.It can be done by using the Container Registry in IBM cloud	Container Registry, Kubernetes Cluster
3.	Scalable Architecture	Expense Tracker is a life time access supplication. It's demand will increase when the user'sincome are high	Container Registry, Kubernetes Cluster
4.	Availability	This application will be available tothe user at any part of time	Container Registry, Kubernetes Cluster
5.	Performance	The performance will be high because there will be no networktraffics in the application	Kubernetes Cluster