PROJECT DESIGN PHASE 2

TECHNOLOGY ARCHITECTURE

Date	20/10/2022
Team Id	PNT2022TMID15094
Project Name	Personal Expense Tracker

Technical Architecture:

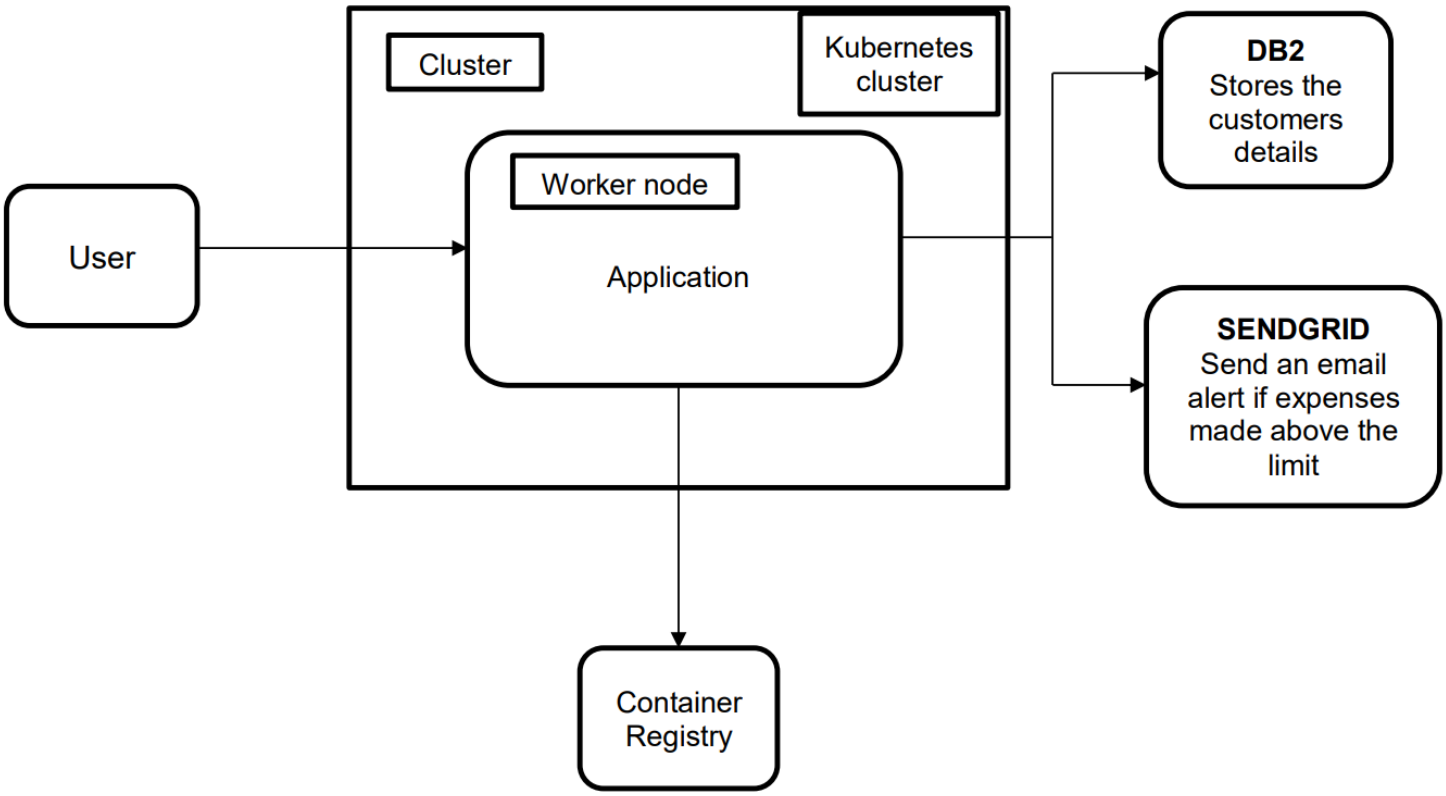

Table 1: Components and Technologies:

Sn.no	Component	Description	Technology
1	User Interface	The user can interact with application using chatbot.	HTML, CSS, JavaScript, Angular JS/React JS
2	Application Logic-1	The application contains the sign in/sign up where the user will login into the main dashboard.	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	The user will get the expense report in the graph form and also get alerts if the expense limit exceeds.	IBM Watson Assistant, SendGrid
5	Database	The Income and Expense data are stored in the MySQL database.	MySQL, etc.
6	Cloud Database	With use of Database Service on Cloud, the User data are stored in a well secured Manner.	IBM DB2, IBM Cloud, 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:

Sn.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. Its demand will increase when the user's income is high.	Container Registry, Kubernetes Cluster
4	Availability	This application will be available to the user at any part of time.	Container Registry, Kubernetes Cluster
5	Performance	The performance will be high because there will be no network traffics in the application.	Kubernetes Cluster