Project Design Phase –II

Technology Architecture

Team ID	PNT2022TMID45745
Project Name	Personal Expenses 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.

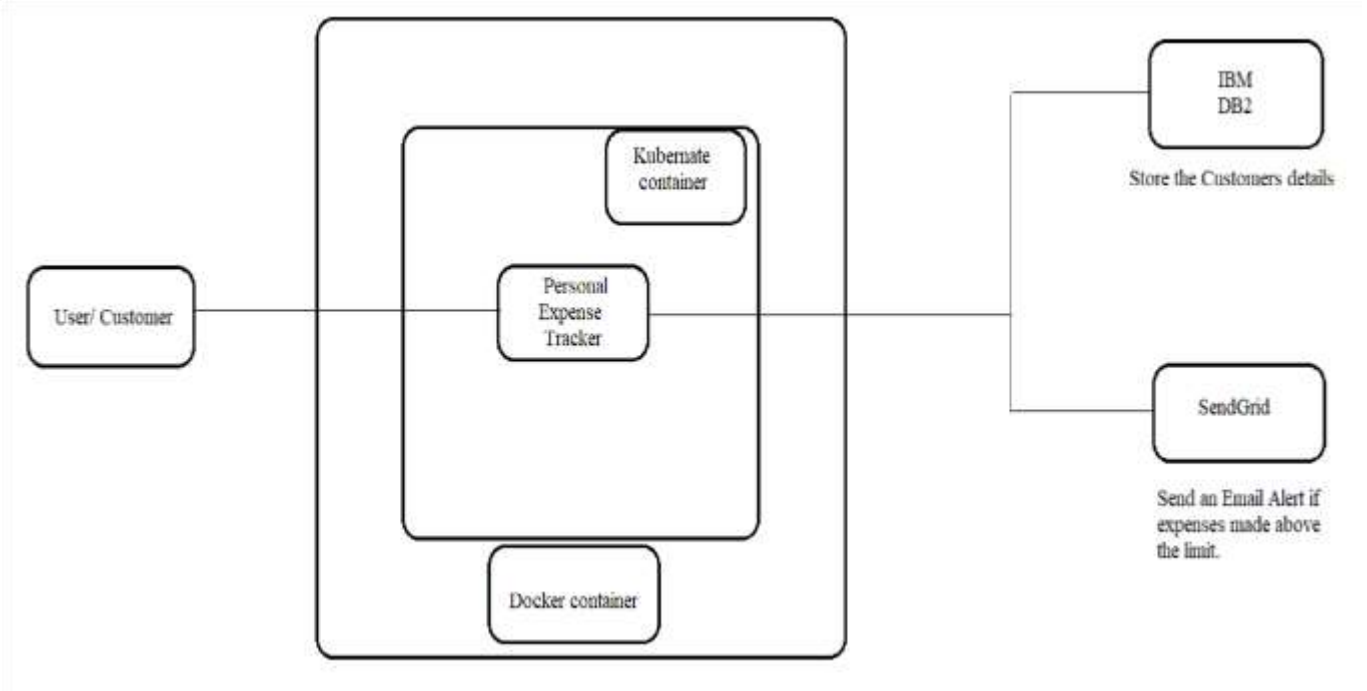

Table 1:

Components and Technologies:

S. No	Components	Description	Technology
1.	User interface	The user can Interact with the application with use of Chatbot	HTML, CSS, JavaScript
2.	App logic-1	The app contains the sign in/sign up where the user will login into the main dashboard	Java/Python
3.	App logic-2	Dashboard contains the fields like Add income and expenses, Save Money	IBM Watson STT service
4.	App logic-3	The user will get the expense report 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
6.	Cloud storage	The user data are stored.	IBM DB2
7.	File storage	IBM Block Storage used to store the Financial data of the user	Local file system, IBM Block storage.

Table 2:

Application characteristics:

S. No	Characteristics	Description	Technology
1.	Open-source framework	Flask Framework in Python is used to implement this app.	Python flask
2.	Security implementation	This App provides high security to the user financial data. It can be done by using the Container Registry in IBM cloud	Kubernetes cluster, Container registry.
3.	Availability	This app will be available to the user at any part of time	Kubernetes cluster, Container registry
4.	Scalable architecture	Expense Tracker is a life time access supplication. Its demand will increase when the user's income is high	Kubernetes cluster, Container registry
5.	Performance	The performance will be high	Kubernetes cluster