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

Date	03 October 2022
Team ID	PNT2022TMID20991
Project Name	Personal Expense Tracker
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

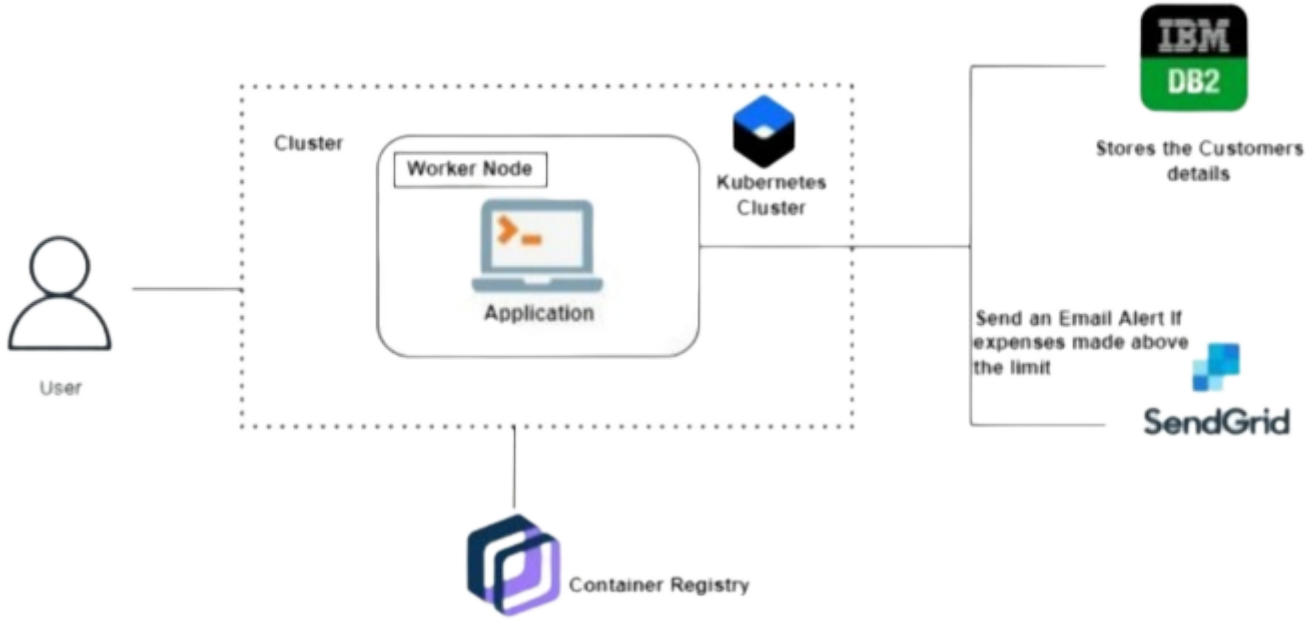

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	The application contains a login/registration for the user to log into the main dashboard.	Java / Python
3.	Application Logic-2	Dashboard contains fields like Add Income, Add Expense, Save Money	IBM Watson STT service
4.	Application Logic-3	Users will receive expense reports in the form of graphs and also receive alerts if limits are exceeded.	IBM Watson Assistant
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 in etc. a well secured 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	The implementation of this application uses Python's Flask framework.	Python - Flask
2.	Security Implementations	This application provides high security for users' financial data. This can be done using the container registry in the IBM cloud.	Container Registry. Kubernetes Cluster
3.	Scalable Architecture	Expense Tracker is a petition for lifetime access. Demand increases when user income is high.	Technology used
4.	Availability	This application is always available to users.	Technology used
5.	Performance	High performance as there is no network traffic in the application.	Technology used