

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

Date	30 October 2022
Team ID	PNT2022TMID22090
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

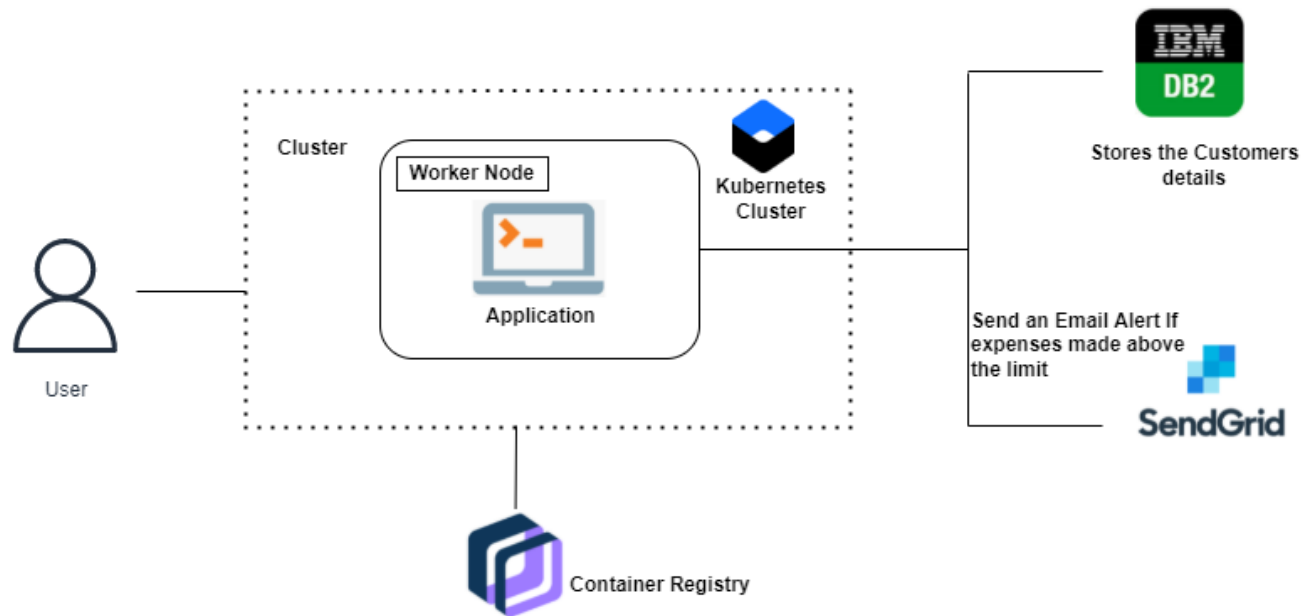


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User interacts with application using Chatbot	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	It includes two steps. Registration and login .Login directs to dashboard.	Java / Python
3.	Application Logic-2	Dashboard contains three fields. Credit ,Debit and Check balance	IBM Watson STT service
4.	Application Logic-3	On exceeding expense limit user will receive an alert message via email. User will also get an expense report	IBM Watson Assistant
5.	Database	User account details and Income details are stored in MySQL database	MySQL, NoSQL, etc.
6.	Cloud Database	Cloud Database helps to store data with high security	IBM DB2, IBM Cloud etc.
7.	File Storage	IBM Storage helps us storing the financial data of user.	IBM Block Storage or Other Storage Service or Local Filesystem

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask framework in python is used for implementation of this application	Python-Flask
2.	Security Implementations	Container Registry in IBM Cloud is used for high security	Container Registry, Kubernetes Cluster
3.	Scalable Architecture	This application is accessible at anytime	Container Registry, Kubernetes Cluster
4.	Availability	This application is available to user for 24/7 for all 365 days in a year .	Container Registry, Kubernetes Cluster
5.	Performance	Faster and high performance	Kubernetes Cluster

