

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

Date	03 October 2022
Team ID	PNT2022TMID35662
Project Name	Project – 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

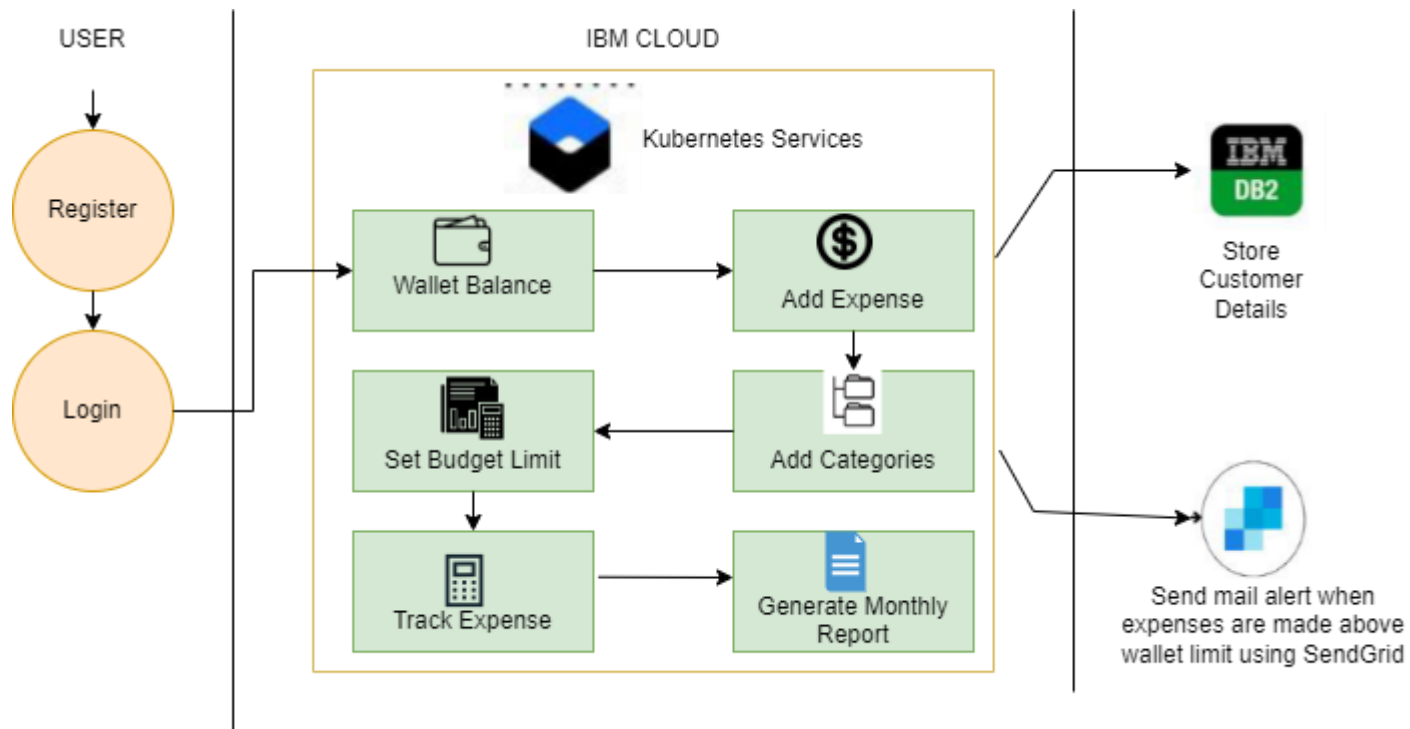


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User can interact with the chatbot	HTML, CSS, JavaScript
2.	Registration and Login	Logic for a process in the application	Python/ Docker
3.	Dashboard	Dashboard contains fields like Wallet Balance, Add expenses	IBM Cloud Kubernetes Services
4.	Tracking expenses	User will get expense report	IBM Cloud Container Registry
5.	Database	Data Type, Configurations etc.	MySQL
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-1	Sending mail when expense crosses budget limit	SendGrid

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask is open source Framework in Python	Flask
2.	Security Implementations	High Security to Financial Data	IBM DB2
3.	Scalable Architecture	User, Application, Cloud Servers	Python, IBM Cloud Services
4.	Availability	Docker load balancer load balance requests across containers. Kubernetes services for increased efficiency.	Docker and Kubernetes
5.	Performance	Large quantity of requests be handled	IBM Container Registry