

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

Date	20 October 2022
Team ID	PNT2022TMID04575
Project Name	Project – Personal Expense Tracker
Maximum Marks	4 Marks

TEAM MEMBERS

TEAM LEADER : DHIWAAGAR P

TEAM MEMBER : DHINAKARAN R

TEAM MEMBER : HARIPRASANTH P

TEAM MEMBER : GOWRISANKAR D

Personal Expense Tracker

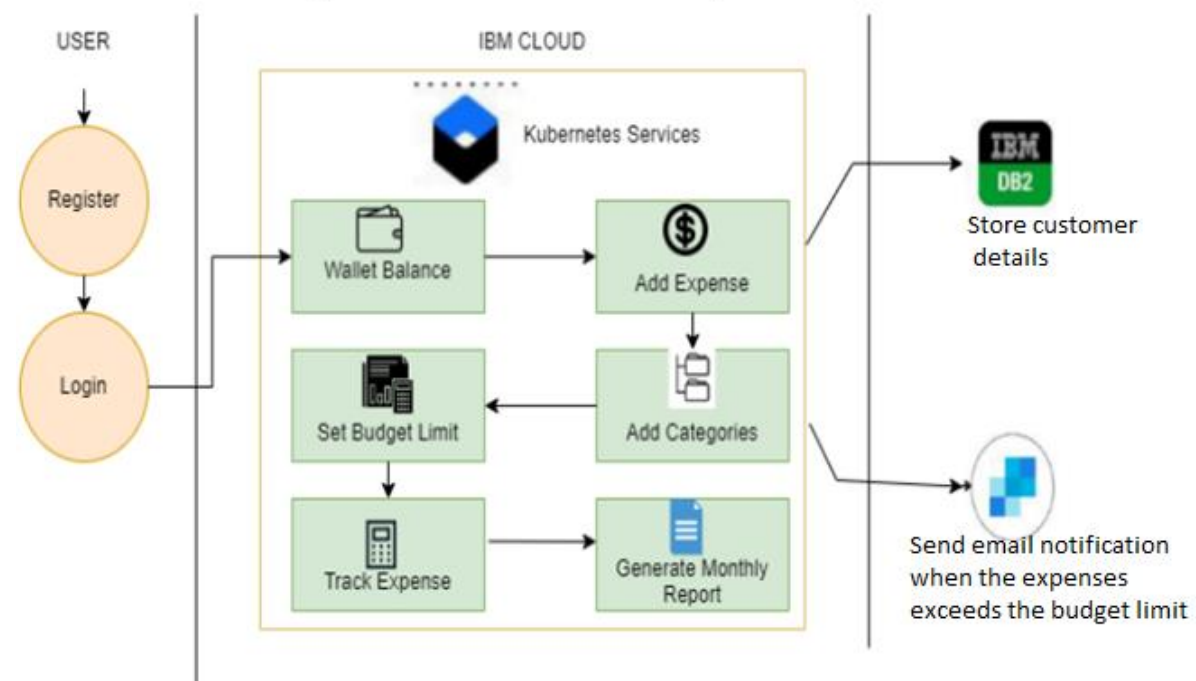


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User can interact with the application through chatbot	HTML, CSS, python flask
2.	Application Logic-1	There will be a sign up/login option to enter into the application interface	Python
3.	Application Logic-2	Dashboard will contain the options such as add money, add expenses, view budget etc..	Sendgrid
4.	Application Logic-3	User can able to see the expense analyze in pie chart and the alert message will be sent while reaching the limit	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL
6.	Cloud Database	Database Service on Cloud will help the user to save and retrieve their data whenever they want In a safer manner	IBM DB2
7.	File Storage	Block storage is used to store data, often on storage area networks and data is stored in blocks separately for efficiency.	IBM Block Storage
8.	Infrastructure (Server / Cloud)	Application Deployment on Cloud	Kubernetes

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	<ul style="list-style-type: none">• html provides the basic structure of a web page• CSS is used to style the webpages• JavaScript is used for backend framework• Open-source frameworks used for python is Flask	HTML,CSS,JS, python-flask
2.	Security Implementations	Financial data will be highly safe	IBM DB2
3.	Scalable Architecture	Users can access the application using the Cloud servers	IBM Cloud Services
4.	Availability	Docker packages an application and all its dependencies into a virtual container that can run on anywhere . Kubernetes services for increased efficiency.	Docker, Kubernetes
5.	Performance	Large quantity of requests can be handled without error	IBM Container Registry