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

Date	16 October 2022
Team ID	PNT2022TMID48968
Project Name	Project - Personal expense 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

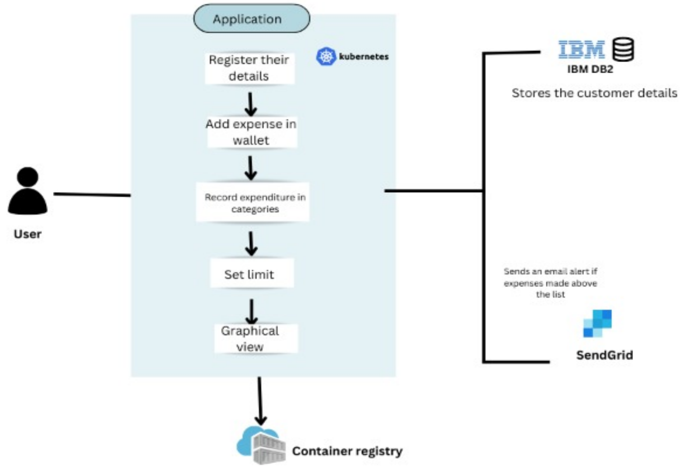

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, etc.	HTML, CSS, Python flask
2.	Registration	User register in the application to start the process	HTML, CSS, Python flask, IBM cloud, IBM DB2, IBM Container registry
3.	Login	User login to their account	HTML, CSS, Python flask, IBM cloud, IBM DB2, IBM Container registry
4.	Wallet page	User can add their expenses in the wallet	HTML, CSS, Python flask, IBM cloud, IBM Container registry
5.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
6.	Email alert	User can be notified when their expenses cross the limit in the wallet	Kubernetes, IBM container registry, Sendgrid
7.	Graphical view	User can able to see their monthly expenses in a graph format	IBM cloud object storage, IBM container registry, HTML, CSS

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Docker and kubernetes are the open source frameworks	Docker, Kubernetes
2.	Security Implementations	IBM DB2 is used for the security control	IBM DB2
3.	Scalable Architecture	This architecture connects the three dimensions like processing, storage and connectivity between the user and the system	Python flask, IBM container registry
4.	Availability	It is always available	Python flask and IBM cloud
5.	Performance	The application can perform well user can experience the fast while using the application	Python flask and IBM cloud