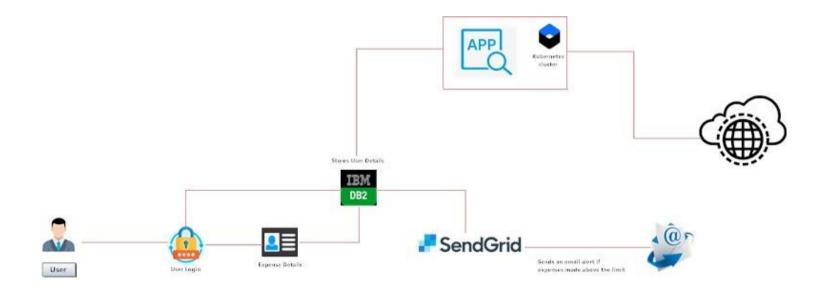
Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	21.10.2022
Team ID	PNT2022TMID06813
Project Name	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 table 1 & table 2



**Table-1: Components & Technologies:** 

S.No	Component	Description	Technology
1.	User Interface	Web UI	HTML, CSS, JavaScript
2.	Application Logic-1	Backend Process – Web page route, Db Connection	Python Flask
3.	Application Logic-2	Docker containers	Docker
4.	Cloud Database	Database Service on Cloud	IBM DB2
5.	File Storage	File storage requirements	IBM Object Storage
6.	External API-1	Sending email alert	Sendgrid
7.	Infrastructure (Server / Cloud)	Application Deployment on Cloud Cloud Server Configuration : 1vCPU, 1 Cluster, 25GB Object Storage	IBM Kubernetes Cluster

**Table-2: Application Characteristics:** 

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask	Python
2.	Security Implementations	SSL Certificate	SHA-256, Encryptions
3.	Scalable Architecture	3 – tier Architecture, Micro-services	Kubernetes with Docker
4.	Availability	load balancers, distributed servers	IBM Cloud
5.	Performance	15 connections at a time, 200Mb of Data Storage	IBM Db2