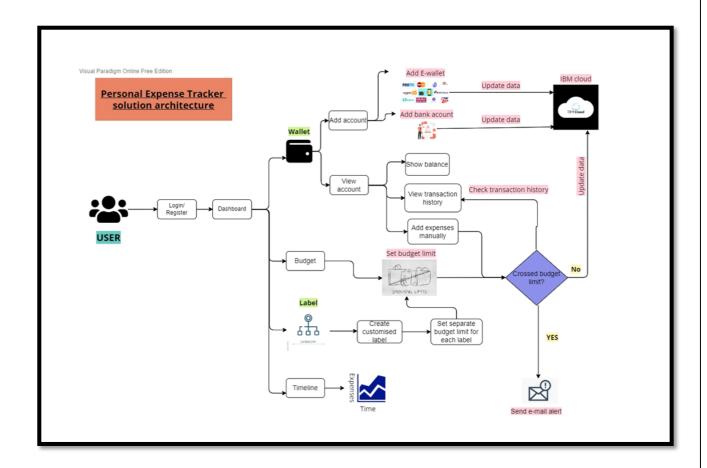
## Project Design Phase-II Technology Stack (Architecture & Stack)

Date	16 October 2022
Team ID	PNT2022TMID13146
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	The user can interact with the	HTML, CSS, JavaScript /
		application with the use of a	React Js etc.
		Chatbot.	
2.	Application Logic-1	This application has a sign-	Python/Node JS
		in/sign-up feature that allows	
		users to access the main	
		dashboard after signing up.	

3.	Application Logic-2	The dashboard has fields for	IBM Watson STT service
		saving money, adding expenses,	
		and adding revenue.	
4.	Application Logic-3	The user will receive notifications	IBM Watson Assistant
		if the expense cap is exceeded and	
		also get an expense report in form	
		of a graph	
5.	Database	The MySQL database contains	MySQL, NoSQL, etc.
		income and expense information.	
6.	Cloud Database	The user data are saved in a secure	IBM DB2, etc
		manner while using a cloud-based	
		database service.	
7.	File Storage	The user's financial data is	IBM Block Storage or
		stored on IBM Block	Other Storage Service or
		Storage.	Local Filesystem
8.	External API-1	It makes internal resources	IBM Weather API, etc.
		accessible to users or apps	
		from the outside world.	

## **Table 2: Application Characteristics:**

S No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask Framework in Python is used to implement this Application.	Python-Flask
2.	Security Implementations	The user's financial information is extremely secure. IBM cloud's Container Registry can be used to accomplish this.	Container Registry, Kubernetes Cluster
3.	Scalable Architecture	This application 'Expense Tracker' has lifetime access. When a user's income is high, this product will be in more demand.	Container Registry, Kubernetes Cluster
4.	Availability	The user will have access to this application at any time.	container Registry, Kubernetes Cluster
5.	Performance	The performance will be high because there will be no network traffics in the application.	Kubernetes Cluster