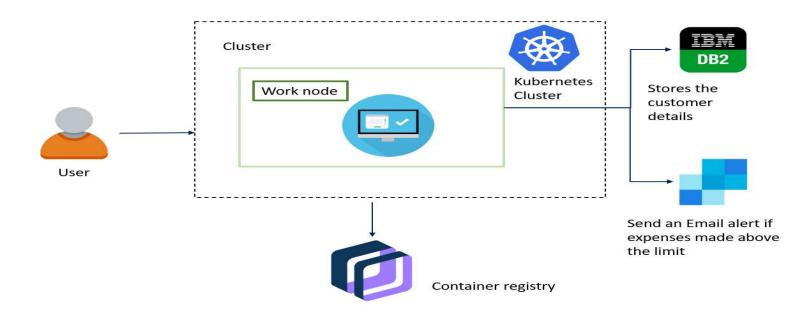
## Project Design Phase-II Technology Stack (Architecture & Stack)

Team ID	PNT2022TMID27692
Project Name	Personal Expense Tracker Application
Maximum Marks	4 Marks

## **Technical Architecture:**



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

S.No	Component	Description	Technology
1.	User Interface	The user interacts with application with the	HTML, CSS, JavaScript in Python
		use of Chabot	Flask
2.	User Login	The user can login either through their	Python Flask
		Gmail account or an account in the app	
		server	
3.	Graph Visualisation	Rendering plots and graphs based on the	Seaborn, Matplotlib
		user spending data	
4.	Database	Data Type, Configurations etc.	MySQL
5.	Cloud Database	Database Service on Cloud	IBM DB2
6.	SendGrid	A cloud-based SMTP provider that allows	SendGrid is used to trigger mail to
		you to send email without having to	user emails when a particular
		maintain email servers.	condition is met.
7.	File Storage	File Storage requirements	IBM Block Storage
8.	Infrastructure (Server / Cloud)	Application Deployment on Cloud	Cloud Foundry, Kubernetes etc.

**Table-2: Application Characteristics:** 

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask is a micro web framework written in	Python Flask Framework
		Python. It is classified as a micro	
		framework because it does not require	
		particular tools or libraries.	
2.	Security Implementations	Passwords can't be stored as plaintext so it	Using crypto algorithms
		is hashed and salted	
3.	Scalable Architecture	Containerized application is deployed to	Docker
		rapidly increase scale on demand	
4.	Availability	This application will be available to user at	Container Registry, Kubernetes
		any point of time.	cluster
5.	Performance	The performance will be high because the	Technology used
		traffic will be less in the application	