

PROJECT DESIGN PHASE - II

TECHNOLOGY STACK (Architecture & Stack)

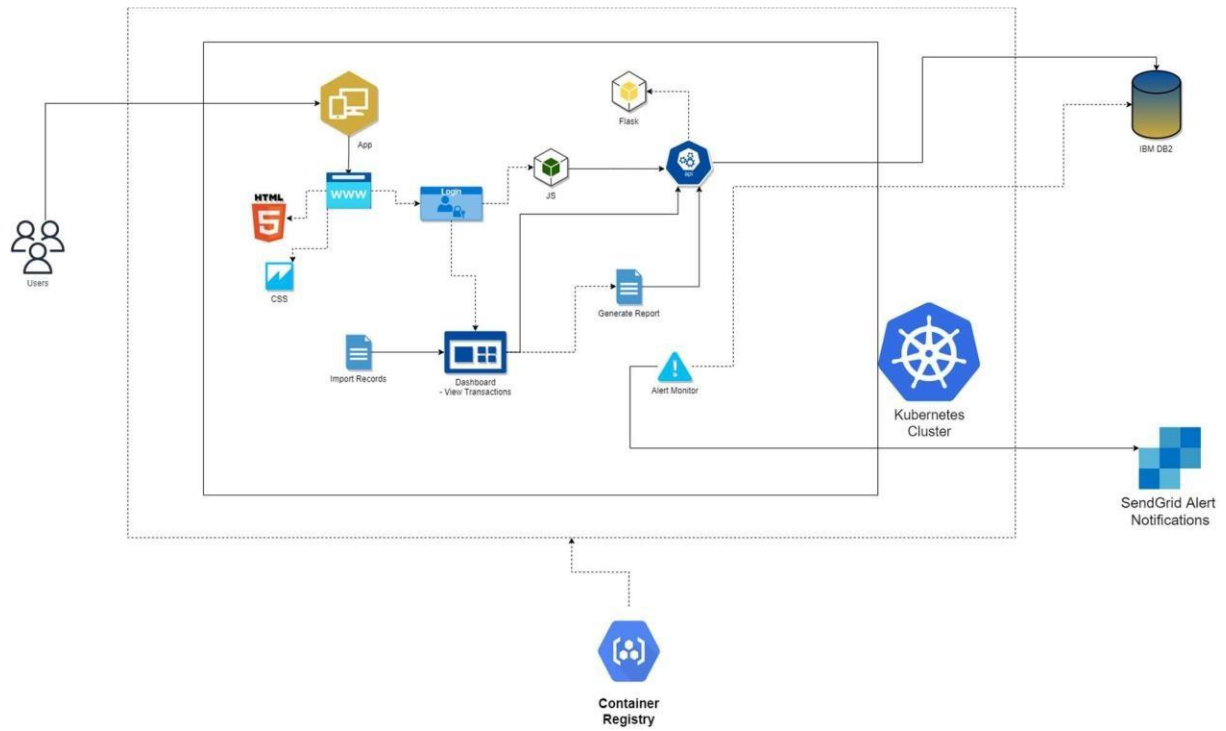


Table – 1: Components & Technologies

S.No	Components	Description	Technology
1.	User Interface	UI to Login	HTML, CSS, JavaScript / Bootstrap 5
2.	Logic – 1	Logic for a process	Python – Flask
3.	Logic – 2	Logic for a process	IBM Watson STT service
4.	Logic – 3	Logic for a process	IBM Watson Assistant
5.	Database	Data type, Configurations, etc.	MySQL
6.	Cloud Database	Database Service on Cloud	IBM DB2
7.	File Storage	File Storage Requirements	Local File System
8.	API – 1	Purpose of External API used in the app	SendGrid API
9.	API – 1	Purpose of External API used in the app	Economic News API
10.	Container Registry	Container Images Storage	Local Registry: DockerHub Cloud Registry: Container Registry
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud	Local Server Configuration: Minikube Cloud Server Configuration: Kubernetes

Table – 2: Application Characteristics

S.No	Characteristics	Description	Technology
1.	Open source frameworks	Open-source frameworks used	Docsify, Elastic search
2.	Security Implementations	Security & access controls implemented	Sha256 Hashing, IAM
3.	Scalable Architecture	Justify the scalability of architecture	services architecture
4.	Availability	Justify the availability of application	balance