

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

Date	03October 2022
Team ID	PNT2022TMID27255
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

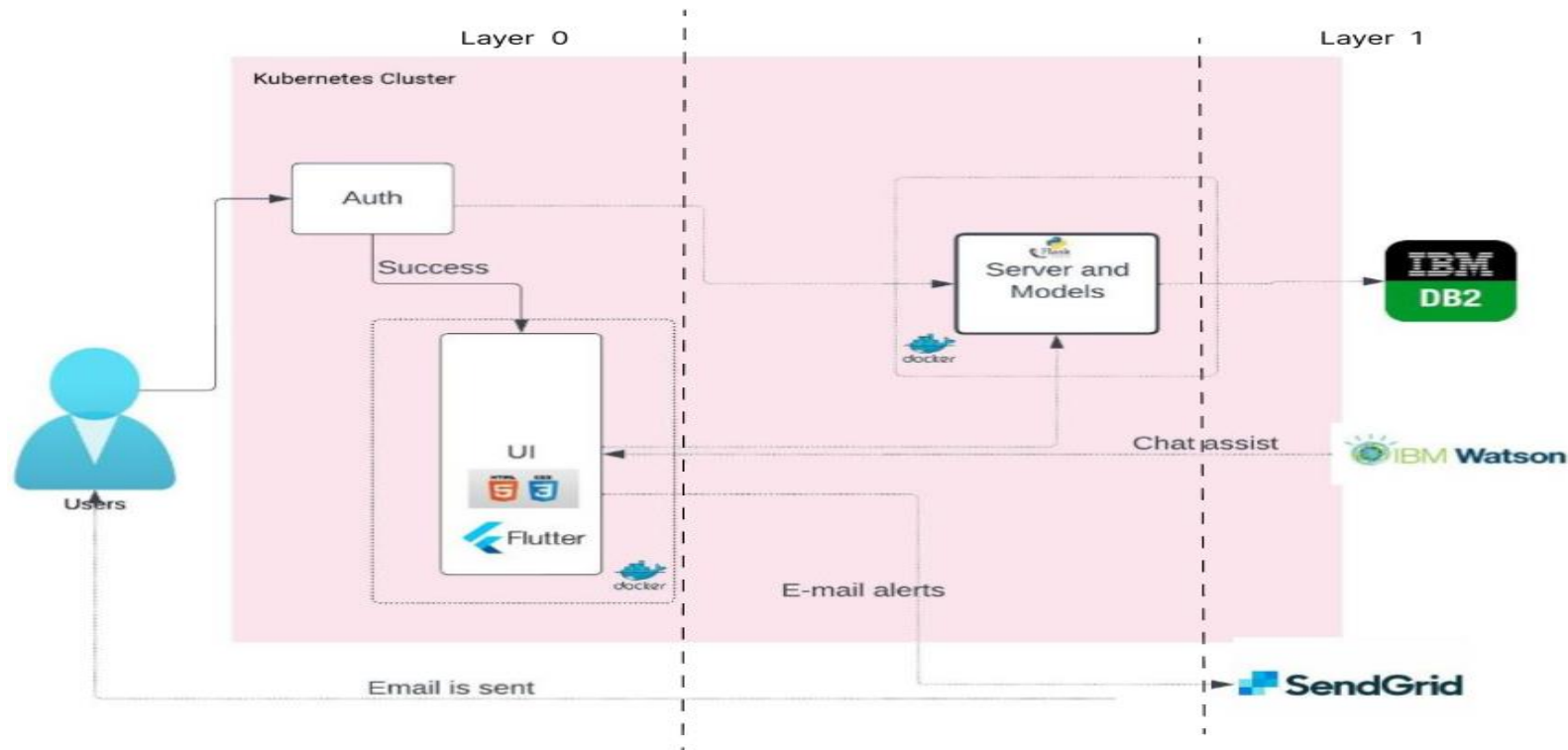


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	The user can interface with the application. E.g. web UI, mobile App, chat bot.	Flutter ,HTML, CSS, JavaScript.
2.	User Login	Application contains the Sign In/Sign Up page. Where the user can Login and register	Flutter and Flask(Python)
3.	Application Logic-1	User can create budget	Flutter
4.	Application Logic-2	User can check the report of the budget	Flask
5.	Application Logic-3	Calculate balance and alert	Flask , Sendgrid
6.	Database	Type of data base used	MySQL
7.	Cloud Database	Database Service on Cloud	IBM DB2
8.	File Storage	File storage on Cloud	IBM Block Storage
9.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: localhost:8080 Cloud Server Configuration :	Local, Cloud , docker .

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List of open-source frameworks used	Flask, Docker, Kubernetes, Flutter
2.	Security Implementations	Unique Identity key in generated and validated	Python – Flask and Flutter
3.	Scalable Architecture	We use automatic deployment and load balancer	Docker and Flask Queue
4.	Availability	This can be access by Cross platform application from all part of the world	Flutter , IBM Cloud
5.	Performance	Designed in particular way to handle 1000s request per second	Docker and IBM cloud Kubernetes.