

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

Date	03 October 2022
Team ID	PNT2022TMID23434
Project Name	Project -Personal Expense Tracker
Maximum Marks	4 Marks

Technical Architecture:

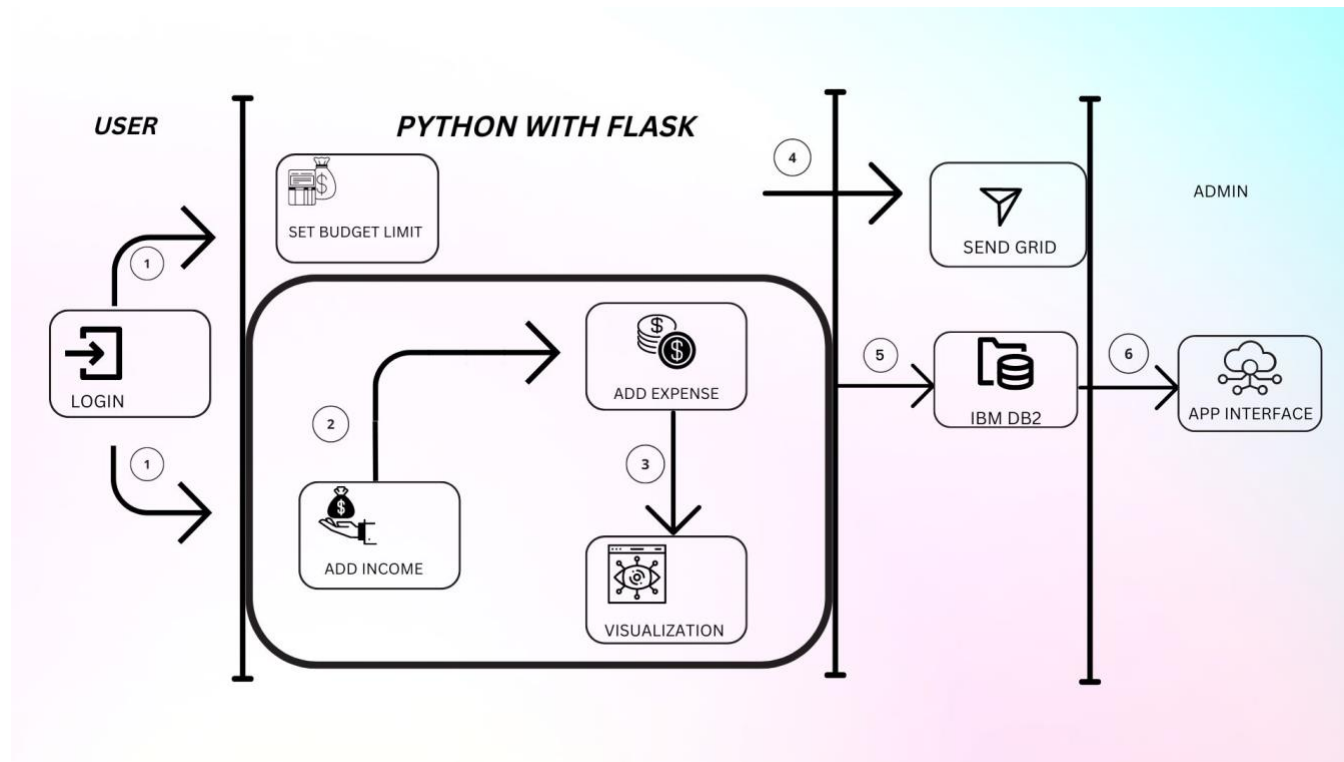


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User interacts with the application using web UI, Mobile App, Chat Bot	HTML, CSS, JavaScript, Bootstrap, IBM Watson Assistant, tailwind, react
2.	Application Logic-1	User logsins to Application	HTML, CSS, Python with Flask, react, express, node.js
3.	Application Logic-2	User Sets the budget limit	HTML, CSS, Python with react, express, node.js
4.	Application Logic-3	User Adds income and expenses and visualization	HTML, CSS, Python with Flask, react, express, node.js
5.	Application Logic-4	Sends email alert when limit is crossed	Send Grid
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc., MongoDB atlas
7.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Cloud Server Configuration :	Cloud Foundry, Kubernetes

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Python, HTML, CSS	Flask, Bootstrap, tailwind, react
2.	Scalable Architecture	3-tier architecture	Kubernetes cluster, Container-registry, IBM DB2, mongodb
3.	Availability	Clustering	Kubernetes cluster
4.	Performance	Asynchronous	Send Grid