

PROJECT DESIGN PHASE – II

Technology Stack (Architecture and Stack)

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Team ID: PNT2022TMID12530

Project Name: Personal Expense Tracker Application

Technical Architecture:

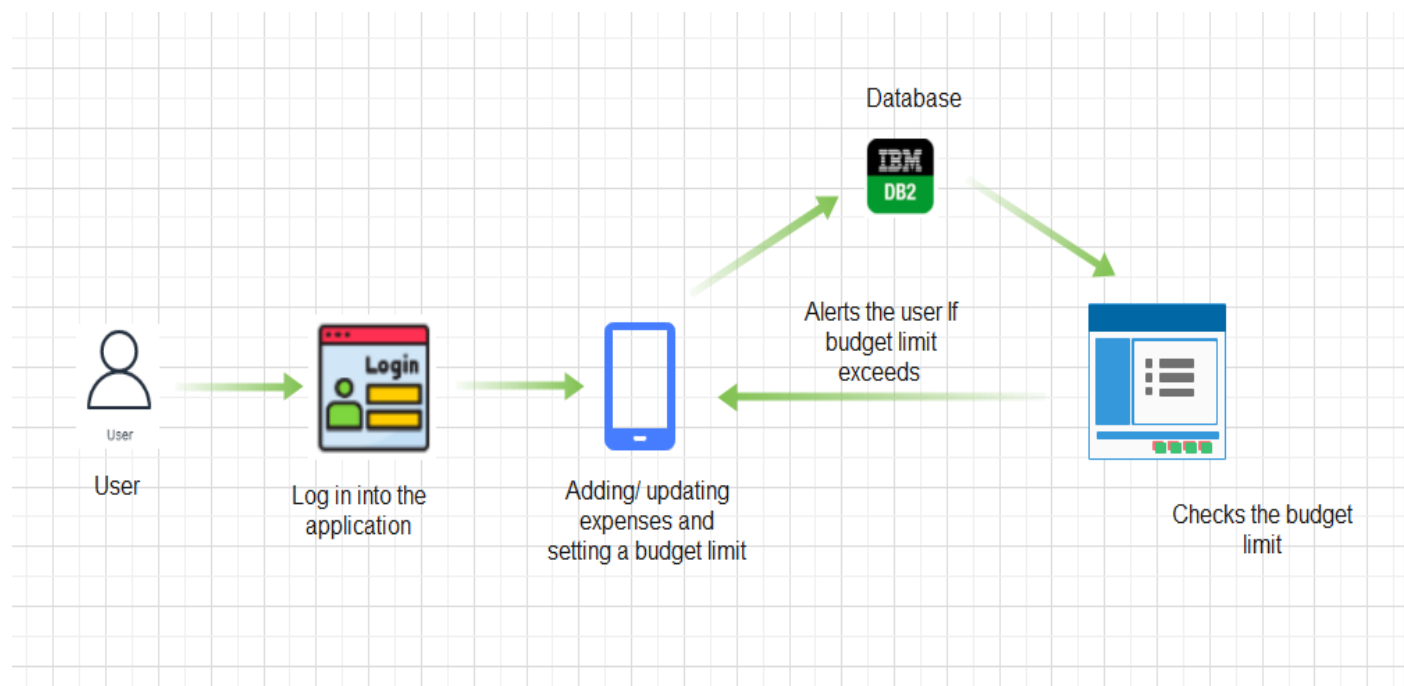


Table 1 – Components and Technologies:

S.NO	Component	Description	Technology
1	User Interface	How user interacts with application e.g.,Web UI, Mobile App, Chatbot etc	HTML, CSS, JavaScript, Node Js React Js
2	Application logic - 1	Logic for a process in the application	Python / Java
3	Application logic-2	Logic for a process in the application	IBM Watson STT service
4	Application logic-3	Logic for a process in the application	IBM Watson Assistant
5	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloud ant etc
7	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8	External API - 1	Purpose of External API used in the application	IBM Weather API, etc
9	Docker	Purpose of Docker	Contain application within package and execute the application
10	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration	Local, Cloud Foundry, Kubernetes, etc.

Table 2 – Application Characteristics :

S.NO	Characteristics	Description	Technology
1	Open-Source Frameworks	List the open-source frameworks used	Technology of Opensource framework
2	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	e.g., SHA-256, Encryptions, IAM Controls, OWASP etc.
3	Scalable Architecture	Justify the scalability of architecture (3 - tier, Micro-services)	Technology used
4	Availability	Justify the availability of application (e.g., use of load balancers, distributed servers etc.)	Technology used
5	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Technology used