

PROJECT DESIGN PHASE - II

TECHNICAL ARCHITECTURE

PERSON EXPENSE TRACKER APPLICATION

TeamID : PNT2022TMID31320

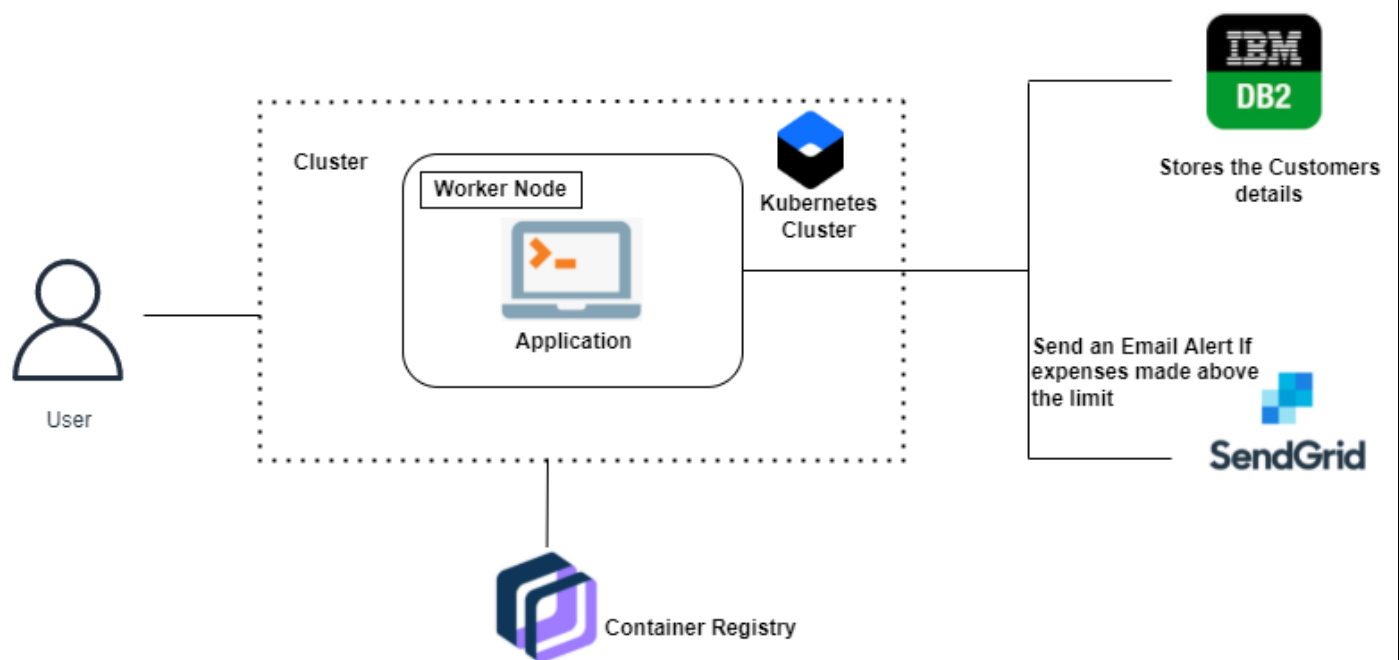
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Technical Architecture :



Components and Technologies :

| S.No | Parameter | Description | Technology |
|------|---------------------|--|---|
| 1. | User Interface | The user can interact with the application with the use of a Chatbot. | HTML, CSS, JavaScript / Angular Js / React Js etc. |
| 2. | Application Logic-1 | The application contains the sign-in/sign-up where the user will log in to the main dashboard. | Java / Python |
| 3. | Application Logic-2 | The dashboard contains the fields like Add income, Add Expenses, and Save Money. | IBM Watson STT service |
| 4. | Application Logic-3 | The user will get the expense report in graph form and also get alerts if the expense limit exceeds. | IBM Watson Assistant |
| 5. | Database | The Income and Expense data are stored in the MySQL database. | MySQL, NoSQL, etc |
| 6. | File Storage | With the use of Database Service on the Cloud, the User data are stored in a well-secured Manner. | IBM DB2, IBM Cloudant etc. |
| 7. | File Storage | IBM Block Storage is used to store the Financial data of the user. | IBM Block Storage or Other Storage Service or Local File system |
| 8. | External API-1 | It exposes a business's internal resources to outside users or applications. | IBM Weather API, etc. |

Characteristics :

| S.No | Characteristics | Description | Technology |
|------|--------------------------|--|--|
| 1. | Open-Source Frameworks | Flask Framework in Python is used to implement this Application | Python-Flask |
| 2. | Security Implementations | This Application Provides high security to the user's Financial data. It can be done by using the Container Registry in the IBM cloud. | Container Registry, Kubernetes Cluster |
| 3. | Scalable Architecture | Expense Tracker is a lifetime access application. Its demand will increase when the user's income is high. | Container Registry, Kubernetes Cluster |
| 4. | Availability | This application will be available to the user at any part of time. | Container Registry, Kubernetes Cluster |
| 5. | Performance | The performance will be high because there will be no network traffics in the application. | Kubernetes Cluster |