PERSONAL EXPENSE TRACKER APPLICATION

TEAM ID   **:** PNT2022TMID44710

TEAM MEMBERS : SANTHOSH KUMAR V (732519104024)

PRAKASH C (732519104020)

PREM KUMAR P (732519104021)

SHARAN NK (732519104025)

DEPARTMENT   **:** COMPUTER SCIENCE & ENGINEERING

COLLEGE NAME : SHREE VENKATESHWARA HI-TECH ENGINEERING

COLLEGE, GOBI.

PROBLEM SOLUTION FIT

Personal finance entails all the financial decisions and activities that a Finance app makes your life easier by helping you to manage your finances efficiently. A personal finance app will not only help you with budgeting and accounting but also give you helpful insights about money management .Personal finance applications will ask users to add their expenses and based on their expenses wallet balance will be updated which will be visible to the user. Also, users can get an analysis of their expenditure in graphical forms. They have an option to set a limit for the amount to be used for that particular month if the limit is exceeded the user will be notified with an email alert. We have designed architecture diagrams and layouts which we are going to use in our user interface which is user friendly i.e. easy to understand and use .We have a clear objective to make the application efficient that can run even on low end devices. Each method that we follow are the best practices as per industry standards . the user details and expense are stored in the IBM DB2 and the limit of the expense are out then the SendGrid sends a email notification to the user . Container Registry allows you to build, store, and manage container images and artifacts in a private registry for all types of container deployments . Kubernetes Cluster now offers two modes of operations: Autopilot and Standard. Autopilot mode is a hands-off, fully managed solution that manages your entire cluster's infrastructure without worrying about configuring and monitoring, while still delivering a complete Kubernetes experience. And with per-pod billing, Autopilot ensures you pay only for your running pods, not system components, operating system overhead, or unallocated capacity. Standard mode is the experience we've been building since the launch of GKE, enabling additional customization options over the nodes with the ability to fine tune and run custom administrative workloads for when you need low level controls.

SOLUTION ARCHITECTURE