Project Demonstration Video

Personal Expense Tracker Application

Video Link

Team Details

Students of **Thiagarajar College of Engineering, Madurai**

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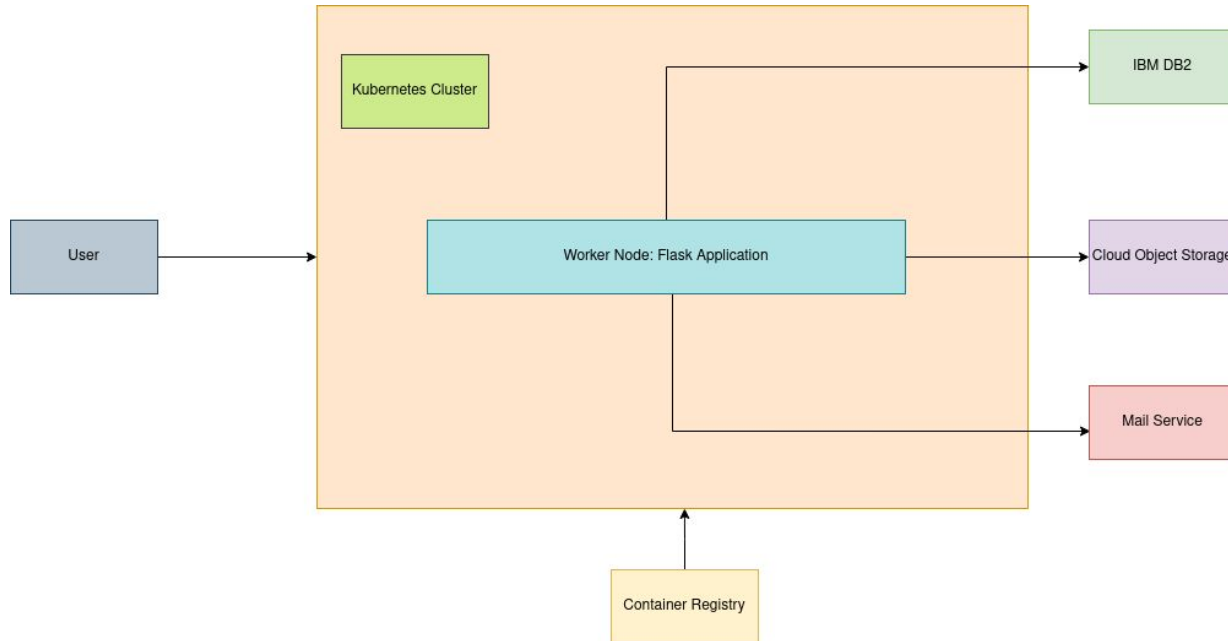
Problem Statement

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.

Proposed Solution

This Expense Tracker is a web application that facilitates the users to keep track and manage their personal as well as business expenses. This application helps the users to keep a digital diary.

The user will be able to add his/her expenditures instantly and can review them anywhere and anytime with the help of the internet.

Technical Architecture

UI and Graphics Libraries used

- **Tailwind css -** Rapidly build modern websites without ever leaving your HTML.\
- **D3js.org -** D3 helps you bring data to life using HTML, SVG, and CSS.

IBM Services used

- IBM DB2
- IBM Container Registry
- IBM Kubernetes Service
- IBM Cloud Object Service

External Third party service

- Email Delivery service - to alert users.

Working Demo of the Project

Performance Metrics (Results)

| TEAM ID | PNT2022TMID21408 | | Project Name | | Personal Expense Tracker Application | | | | |

			NFT - Risk Assessment						
S.No	Project Name	Scope/feature	Functional Changes	Hardware Changes	Software Changes	Impact of Downtime	Load/Volume Changes	Risk Score	Justification
1	login authentication	New	Moderate		Moderate		>30 to 50 %	ORANGE	Required feature
2	Transaction Management	New	High		Moderate		>30 to 50 %	RED	Indispensable feature
3	Containerization	New	Low		Moderate		>5 to 10%	ORANGE	Feature to make it deployable

	NFT - Detailed Test Plan			
S.No	Project Overview	NFT Test approach	Assumptions/Dependencies/Risks	Approvals/SignOff
1	Personal Expense Tracker Application	Stress Test	Proper internet Connection User Credentials	Approroved

	End Of Test Report						
S.No	Project Overview	NFT Test approach	NFR - Met	Test Outcome	GO/NO-GO decision	Recommendations	Identified Defects (Detected/Closed/Open)	Approvals/SignOff
1	Personal Expense Tracker Application	Stress Test		Application is scalable and can be scaled based on available resources	GO			Approved

Scalability/Future Scope

- Add a watson assistant chatbot to application which would help give financial advice to user in a personalised manner.
- Perform analysis of expenses of user with average expenses of all users, so that user can get idea of how is his/her expenses compared to others

Thank you