

# **Personal Expense Tracker Application**

Submitted By

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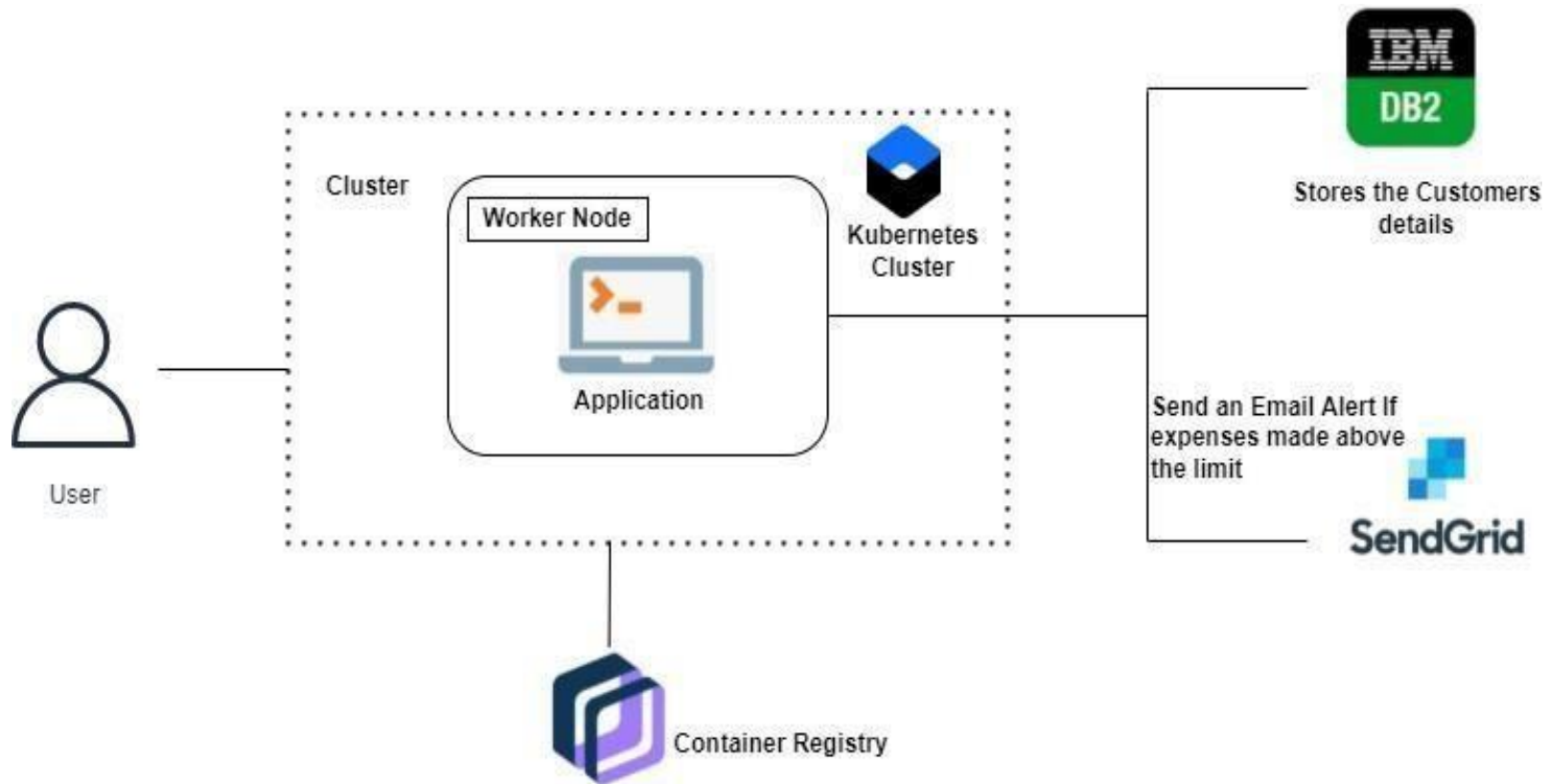
**BACHELOR OF ENGINEERING IN COMPUTER SCIENCE  
AND ENGINEERING**

## Project Design Phase-II

### Technology Architecture

#### Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2



**Table-1: Components & Technologies:**

<b>S.No.</b>	<b>Component</b>	<b>Description</b>	<b>Technology</b>
1.	User Interface	The user can Interact with the application with use of Chatbot	HTML, CSS, JavaScript // React Js, Bootstarp.
2.	Application Logic-1	The application contains the sign in/sign up where the user will login into the main dashboard	Python Flask framework.
3.	Application Logic-2	Dashboard contains the fields like Add income, Add Expenses, Save Money	IBM Watson STT service
4.	Application Logic-3	The user will get the expense report in the graph form and also get alerts if the expense limit exceeds	IBM Watson Assistant, SendGrid, Tableau.
5.	Database	The Income and Expense data are stored in the MySQL database	IBM DB2.
6.	Cloud Database	With use of Database Service on Cloud, the User data are stored in a well secured Manner	IBM DB2, IBM Cloud and etc.
7.	File Storage	IBM Block Storage used to store the Financial data of the user	IBM Block Storage or Other Storage Service or Local Filesystem

**Table-2: Application Characteristics:**

<b>S.No.</b>	<b>Characteristics</b>	<b>Description</b>	<b>Technology</b>
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 Financial data. It can be done by using the Container Registry in IBM cloud	Container Registry, Kubernetes Cluster
3.	Scalable Architecture	Expense Tracker is a life time access supplication. It's demand will increase when the user's income are 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