

Project Design Phase-II

Technology Stack (Architecture & Stack)

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|---------------|---------------------------------------|
| Date | 14 October 2022 |
| Team ID | PNT2022TMID49997 |
| Project Name | Personal expenses tracker Application |
| Maximum Marks | 4 Marks |

Technical Architecture:

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

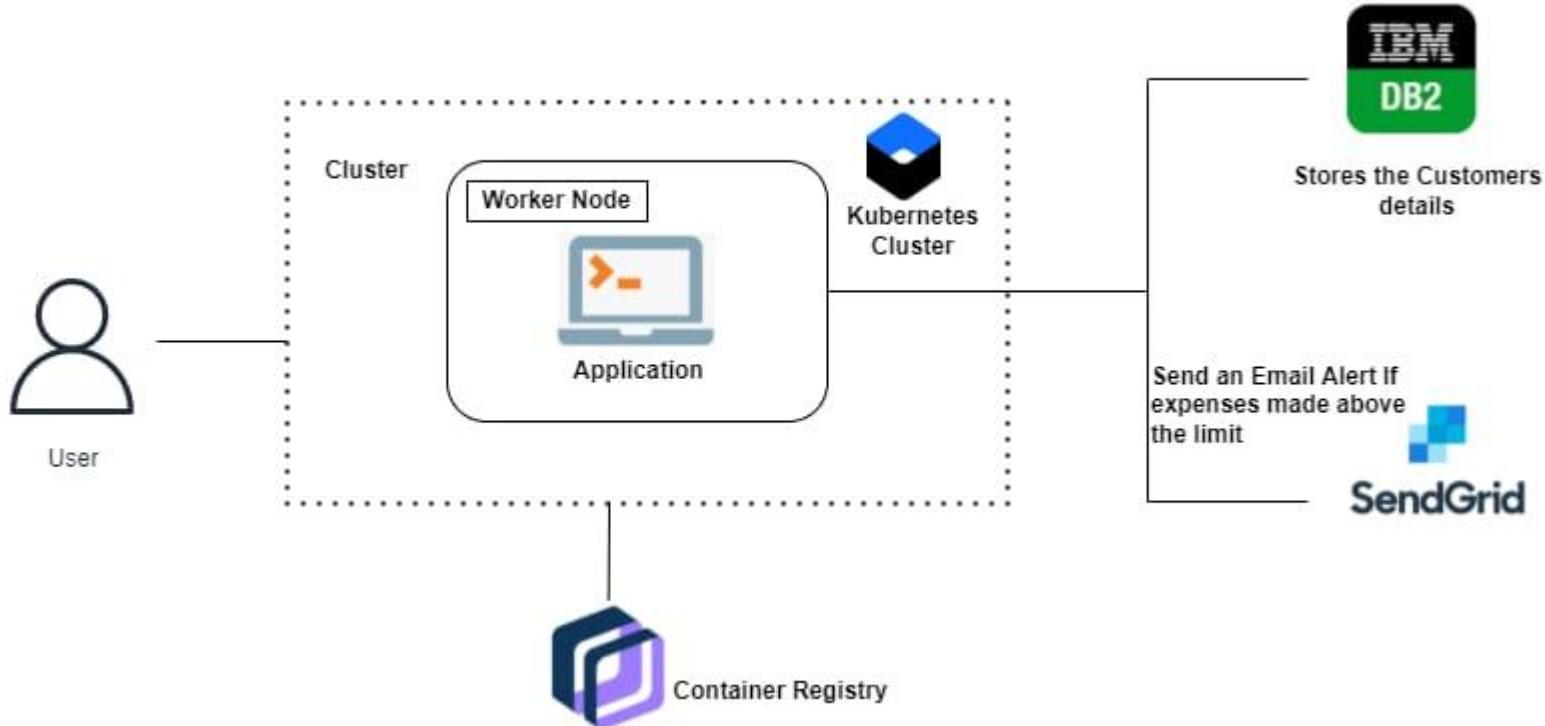


Table- 1 : Components & Technologies:

| S. No | Component | Description | Technology |
|-------|------------------------------|--|----------------------------------|
| 1. | User Interface | User interact with application using form, login, Request notification | Python FLASK, HTML, CSS |
| 2. | Registration | User register in the application to connect bank account | Python FLASK, HTML, CSS, IBM DB2 |
| 3. | Registration | Verification of user and their account details | Python FLASK, HTML, CSS, IBM DB2 |
| 4. | Notification of registration | Sends the notification to the user | Python FLASK, HTML, CSS, IBM DB2 |
| 5. | Tracking of expenses | Expenses of user start tracking by application | Python FLASK, IBM Db2 |
| 6. | SendGrid | Sends email alert to user | sendgrid |
| 7. | Cloud Database | Database Service on Cloud | IBM DB2 |
| 8. | Kubernetes cluster | Run Containerized application | IBM Kubernetes |

Table-2: Application Characteristics:

| S. No | Characteristics | Description | Technology |
|-------|------------------------|--|--------------|
| 1. | Open-Source Frameworks | Docker is used for Open Source Framework | DOCKER |
| 2. | Scalable Architecture | It connected with Scalable Architecture | IBM DB2 |
| 3. | Availability | This application is anytime accessible | Python FLASK |
| 4. | Performance | Record resource requests and save Registered information. Availability of application | IBM DB2 |

