**Project Design Phase-II**

**Functional Requirements**

| Date | 19-10-2022 |
| --- | --- |
| Team ID | PNT2022TMID04980 |
| Project Name | Personal Expense Tracker Application |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| --- | --- | --- |
| FR-1 | User Registration | Registration through form for collecting details |
| FR-2 | User Confirmation | Confirmation via Email |
| FR-3 | Login | Entering the valid username and password |
| FR-4 | Wallet | Application must allow user to perform transaction using the wallet |
| FR-5 | Report | Generation Statistical report generation to visualize weekly expenditure |
| FR-6 | Alerts/Notifications | To send alert through emails to notify user if the expenses if crossed a certain limit |

**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

| **FR No.** | **Non-Functional Requirement** | **Description** |
| --- | --- | --- |
| NFR-1 | Usability | User friendly and interactive experience to manage and track day-to-day expenses |
| NFR-2 | Security | User data must be stored in a secure environment. Transactions should be authorized beforehand. |
| NFR-3 | Reliability | User data is stored in a well defined database and backups are maintained. Replicas of data are maintained to prevent data loss |
| NFR-4 | Performance | Should have high throughput and less latency while performing transactions to maintain data integrity |
| NFR-5 | Availability | The application must be available 24/7 to the users. There should be multiple instances of the server and it should be up and running so that even if one fails the other instances respond to the requests |
| NFR-6 | Scalability | Must be able to handle the increasing needs of users as the number of users increase. Can use kubernetes to create and manage multiple instances of a docker image. |