**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

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| Date | 10 November 2022 |
| Team ID | PNT2022TMID42456 |
| Project Name | Project – Personal expense tracker |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

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| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Registration | Registration through gmail  Registration through form |
| FR-2 | User Login | User can login by entering his username and unique password in the login page of the app. |
| FR-3 | User Authentication | Two-factor authentication enables verification through a password and one-time-use code sent via text message or email. |
| FR-4 | User Expense Management | User can add all his/her expenses by selecting the newly added expense name. User can view ,edit, delete, update a particular expense by selecting appropriate button. |
| FR-5 | Manage user profile | User can update relevant information in the user profile that includes personal, contact and bank details. |
| FR-6 | View Expense History | User is able to view history of expense reports filed in the past. |
| FR-7 | Submit expenses | User can check the summary of all the expenses for a particular report by selecting appropriate expense name. User can submit the expense by selecting “submit” button. |
| FR-8 | Expense reports | Appropriate expense reports will be generated in a graphical form. User has an option to view those reports. |

**Non-functional Requirements:**

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

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | The system is very easy to use with minimal required training. Individuals of varying skill level and technical competence will use the system. |
| NFR-2 | **Security** | Every user of the system is assigned a unique login and password to access the application. Two-factor authentication enables verification through a password and one-time-use code sent via text message, email or call with enhanced security. The app protects data where it can restore users accounts in case their device get lost or stolen. |
| NFR-3 | **Reliability** | The reliability is one of the most critical attributes as it involves the financial aspect of the user. The users expense or the data entered is always correctly stored into the database. The database commits transactions so that partial entries are not stored in the database. |
| NFR-4 | **Performance** | It has minimum response time under different load conditions. Throughput of the app is increased due to light weight database support. |
| NFR-5 | **Availability** | The app is available all the time, there is no time constraint. |
| NFR-6 | **Scalability** | The app is capable of efficiently sustaining a high growth of its user base. The app is designed that it can sustain a load of users at any time. |