# Project Design Phase-II
# Solution Requirements (Functional & Non-functional)

| Date | 03 November 2022 |
|---|---|
| Team ID | PNT2022TMID50744 |
| Project Name | Project - Personal Expense Tracker |
| 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<br>Registration through Gmail<br>Registration through LinkedIN |
| FR-2 | User Confirmation | Confirmation via Email<br>Confirmation via OTP |
| FR-3 | Delete Account | Confirmation via Email<br>Confirmation via Password |
| FR-4 | Transaction summary | Weekly Transactions<br>Monthly Transactions |
| FR-5 | Budget Carryover | Option to move the leftover budget to next month. |
| FR-6 | Summary/Report | Based on categories and priorities.<br>Inputs/Feedback based on spends. |
| FR-7 | Mitigate Manual Errors | Using API's make note of online transactions and classify them. |
| FR-8 | Prevent Data Loss | Replication Sharding |
| FR-9 | Visualisation of expenses | Using visualisation tools to display the expense split |

# Non-functional Requirements

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

| FR No. | Non-Functional Requirement | Description |
| --- | --- | --- |
| NFR-1 | **Usability** | The system shall be user-friendly and can be used easily by the masses. |
| NFR-2 | **Security** | The system shall only permit authorized users to access the system. The system shall prevent unauthorized users from entering the system. |
| NFR-3 | **Reliability** | The system shall be in the operational mode for at least 320 days in a year. In case of failure, the system shall be able to recover in under 5 seconds. |
| NFR-4 | **Performance** | The system shall be able to record a user's expense as input, process and display it in under 2 seconds. |
| NFR-5 | **Availability** | The system shall be available for public use as long as it remains operational. |
| NFR-6 | **Scalability** | The system shall be accessible to over 10,000 concurrent users without any loss of performance. |