

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

Date	03 October 2022
Team ID	PNT2022TMID36032
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 visualise 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	<b>Usability</b>	User friendly and interactive experience to manage and track day-to-day expenses.
NFR-2	<b>Security</b>	User data must be stored in a secure environment. Transactions should be authorised beforehand.
NFR-3	<b>Reliability</b>	User data is stored in a well defined database and backups are maintained. Replicas of data are maintained to prevent data loss
NFR-4	<b>Performance</b>	Should have high throughput and less latency while performing transactions to maintain data integrity.
NFR-5	<b>Availability</b>	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	<b>Scalability</b>	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.