

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

Date	03 November 2022
Team ID	PNT2022TMID17912
Project Name	Project - Personal Expense Tracker
Maximum Marks	4 Marks

**Functional Requirements:**

The functional specifications for the suggested solution are listed below.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Email/SignUp Registration through Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Add expenses	Enter the everyday expenses Split it into categories(example : food, petrol,movies)
FR-4	Reminder mail	sending reminder emails when they are needed (for instance, if a user wants a reminder when their balance hits \$5,000), If the user does not fill out the expenses for that day, a reminder email is sent to him or her.
FR-5	Creating Graphs	Graphs of daily and weekly expenditures. graphics that categories expenditures.
FR-6	Add salary	The wage must be entered by users at the beginning of each month.
FR-7	Export CSV	The user can export their spending's raw data as CSV.

**Non-functional Requirements:**

Scaling based on demand is supported by Docker and Kubernetes.

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	A straightforward online application that works on all devices
NFR-2	<b>Security</b>	Email login and the OAuth Google sign in are secure thanks to the hashed and salted secure storage of credentials.
NFR-3	<b>Reliability</b>	When there is a failure, containerized services ensure that a fresh instance may launch.
NFR-4	<b>Performance</b>	Through the load balancer that is used with Docker, the load is handled. resulting in good performance.
NFR-5	<b>Availability</b>	The service is always accessible thanks to load balancing and many container instances.
NFR-6	<b>Scalability</b>	Scaling based on demand is supported by Docker and Kubernetes.