Project Design Phase-II

Solution Requirements (Functional & Non-functional)

PNT2022TMID35987

2022

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| Date | 28 October 2022 |
| Team ID | PNT2022TMID41150 |
| 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 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 mail on target (for ex : if user wants a reminder when his/her balance reaches some amount(5000))  Sending reminder mail to the user if he/she has not filled that day's expenses. |
| FR-5 | Creating Graphs | Graphs showing everyday and weekly expenses. Categorical graphs on expenditure. |
| FR-6 | Add salary | Users must enter the salary at the start of the month. |
| FR-7 | Export CSV | User can export the raw data of their expenditure as CSV |

# 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** | A simple web application which is accessible across  devices |
| NFR-2 | **Security** | The OAuth Google sign in and email login are secure with hashed and salted secure storage of credentials. |
| NFR-3 | **Reliability** | Containerized service ensures that new instance can kick up when there is a failure |
| NFR-4 | **Performance** | The load is managed through the load balancer used  with docker. Thus ensuring good performance |
| NFR-5 | **Availability** | With load balancing and multiple container instances, the service is always available. |
| NFR-6 | **Scalability** | Docker and Kubernetes are designed to accommodate scaling based on need |