**Requirement Gathering and Analysis Phase**

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

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| --- | --- |
| Date | 05-07-2024 |
| Team ID | SWTID1721040922 |
| Project Name | Project – WalletWatch—Expense Tracker app |
| Maximum Marks | 3 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 Phone number  Registration through Gmail |
| FR-2 | User Confirmation | Confirmation via Email  Confirmation via OTP |
| FR-3 | Password recovery or reset functionality | Via email  Via phone number |
| FR-4 | User Personal management | View and edit personal information |
| FR-5 | Expense Tracking | Add Expense, Edit Expense, Delete Expense, Categorize Expenses |
| FR-6 | Income Tracking | Add income, Edit income, Delete income |
| FR-7 | Budget Management | Set budget - Define monthly or custom period budgets for different categories  Track budget- Receive notifications when nearing or exceeding the budget |
| FR-8 | Reporting and Analytics | Expense Reports, Income Reports, Visual Analytics- Display graphs and charts showing spending patterns, Compare income versus expenses over time |

**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 app will have an intuitive and user-friendly interface that makes it easy for users to navigate and use all features effectively. It will provide a consistent user experience across all platforms (iOS, Android, Web). |
| NFR-2 | **Security** | This app will ensure that all user data is securely stored and transmitted. It will implement strong authentication and authorization mechanisms, use encryption for sensitive data, and comply with relevant data protection regulations. |
| NFR-3 | **Reliability** | The app will be reliable and stable, with minimal downtime. It could handle errors gracefully and provide meaningful error messages to users. Regular backups of data will be maintained to prevent data loss |
| NFR-4 | **Performance** | The app will load quickly and respond promptly to user actions. It will be optimized to handle high volumes of transactions without significant performance degradation. |
| NFR-5 | **Availability** | This app will be available 24/7, with a goal of 99.9% uptime. It will have robust infrastructure and failover mechanisms to ensure continuous operation even during maintenance or unexpected failures. |
| NFR-6 | **Scalability** | The app will be able to scale seamlessly to accommodate a growing number of users and transactions. It will support horizontal and vertical scaling of both the application and the database |