

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

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| Date: 31 January 2025 |
| Team ID: SWTID1744280958 |
| Project Name: SpendSmart: Your Personal Finance Companion |
| 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 Onboarding | Registration through Form |
| | | Sign up with Gmail |
| | | Sign up with LinkedIn |
| FR-2 | Account Confirmation | Confirmation via Email |
| | | Confirmation via OTP |
| FR-3 | User Login | Login via Email |
| | | OAuth 2.0 Token-Based Session Management |
| | | Logout Functionality |
| FR-4 | Content Browsing | Fetch Expenses via Open Banking or Expense Categorization APIs |
| | | Search Functionality |
| | | Filter by Category, Date, Amount |
| FR-5 | Finance Profile Management | View Financial Dashboard |
| | | Edit Financial Goals |
| FR-6 | Budget Goals | Add to Budget Goals |
| | | Remove from Budget Goals |
| | | View Budget Goals |
| FR-7 | Expense Tracker Integration | Track Expense |
| | | Edit/Delete Entry |
| | | Continue Tracking from Last Entry |

Non-functional Requirements:

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

| NFR No. | Non-Functional Requirement | Description |
|---------|----------------------------|--|
| NFR-1 | Usability | SpendSmart offers a intuitive and clean UI designed for ease of navigation across devices. |
| NFR-2 | Security | User data is protected with encryption and OAuth 2.0-based authentication. |
| NFR-3 | Reliability | System will be tested for fault-tolerance and uptime with robust error handling. |
| NFR-4 | Performance | Optimized API calls, lazy loading, and caching for smooth experience. |
| NFR-5 | Availability | 99.5% uptime aimed through cloud deployment and load-balanced architecture. |
| NFR-6 | Scalability | Built using scalable technologies (Firebase Realtime DB, Python Flask, Flutter) with future microservices support. |