**Project Design Phase-II**

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

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| --- | --- |
| Date | 9th April 2025 |
| Team ID | SWTID1742986012 |
| Project Name | Survey Form |
| 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  - Registration through Gmail  - Registration through LinkedIn |
| FR-2 | User Confirmation | - Confirmation via Email  - Confirmation via OTP |
| FR-3 | User Authentication | - Login with email and password  - JWT token issued and stored in HTTP-only cookie |
| FR-4 | Profile Management | - View profile  - Update personal details |
| FR-5 | Survey Submission | - Fill and submit survey form  - Confirmation message on successful submission |
| FR-6 | Logout | - Secure logout  - Token invalidation and cookie removal |

**Non-functional Requirements:**

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

| **NFR No.** | **Non-Functional Requirement** | **Description** |
| --- | --- | --- |
| NFR-1 | Usability | User-friendly UI using React and Bootstrap, with Toast notifications |
| NFR-2 | Security | JWT authentication with HTTP-only cookies, input validation, error handling |
| NFR-3 | Reliability | System ensures consistent behavior with database and route-level checks |
| NFR-4 | Performance | Fast backend API responses (~180ms avg), optimized frontend load with Vite |
| NFR-5 | Availability | Deployed using services like Render/Netlify with uptime monitoring |
| NFR-6 | Scalability | Easily scalable via cloud hosting and MongoDB Atlas with cluster support |