**Project Design Phase-II**

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

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| --- | --- |
| Date | 15 Apr. 25 |
| Team ID | SWTID1744120590 |
| Project Name | Survey App |
| 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 via Email/Password |
|  |  | Registration through Google Account (OAuth) |
|  |  | Registration through Facebook (OAuth) |
| **FR-2** | **User Confirmation** | Email Verification with Link |
|  |  | OTP Verification via SMS |
| **FR-3** | **User Authentication** | Login via Social Media (Google/Facebook) |
|  |  | Password Reset Functionality |
|  |  | Role-Based Access (Admin/User/Respondent) |
| **FR-4** | **Survey Creation** | Drag-and-Drop Question Builder |
|  |  | Multiple Question Types (MCQ, Text, Rating, File Upload) |
|  |  | Logic Jump (Conditional Questions) |
| **FR-5** | **Response Management** | Real-Time Response Analytics (Charts/Graphs) |
|  |  | Export Responses (CSV/PDF/Excel) |
|  |  | Anonymous Response Collection |
| **FR-6** | **Subscription & Payment** | Free Tier (Basic Surveys, Limited Responses) |
|  |  | Premium Tier (Custom Branding, Unlimited Responses) |
|  |  | Payment Gateway Integration (Stripe/Razorpay) |
| **FR-7** | **Admin Dashboard** | User Activity Monitoring |
|  |  | Content Moderation (Flagged Survey Removal) |
|  |  | System Analytics (Usage Reports) |

**Non-functional Requirements:**

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

| **FR No.** | **Non-Functional Requirement** | **Description** |
| --- | --- | --- |
| **NFR-1** | **Usability** | Intuitive drag-and-drop survey builder with <3 clicks to create a basic survey. |
| **NFR-2** | **Security** | End-to-end encryption for sensitive data (user credentials, survey responses). |
| **NFR-3** | **Reliability** | 99.9% uptime guarantee for survey submission and data collection. |
| **NFR-4** | **Performance** | Survey loads in <2s, analytics dashboard renders in <3s with 10K+ responses. |
| **NFR-5** | **Availability** | Cross-platform support (Web, Mobile-responsive, PWA for offline use). |
| **NFR-6** | **Scalability** | Handle 100K+ concurrent survey submissions during peak periods. |
| **NFR-7** | **Accessibility** | WCAG 2.1 AA compliant for color contrast, screen reader support. |
| **NFR-8** | **Compatibility** | Supports all major browsers (Chrome, Firefox, Safari, Edge) and devices. |
| **NFR-9** | **Data Integrity** | Automated backups with point-in-time recovery for survey data. |
| **NFR-10** | **Localization** | Support for RTL languages and 5+ major languages (English, Spanish, etc.). |