**Project Design Phase-II**

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

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| --- | --- |
| Date | 15 Apr. 25 |
| Team ID | SWTID1743610409 |
| Project Name | Tune Trails |
| 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 Google Account  Registration through Facebook |
| FR-2 | User Confirmation | Confirmation via Email  Confirmation via OTP |
| FR-3 | User Authentication | Login via Social Media (Google/Facebook)  Password Reset Functionality |
| FR-4 | Music Streaming | Play/Pause/Skip/Repeat Controls  Create and Manage Playlists  Create and Manage Playlists |
| FR-5 | User Profile | View Listening History  Edit Profile Details  Upload Custom Profile Picture |
| FR-6 | Subscription & Payment | Free Tier with Ads  Premium Subscription (Ad-free, Offline Mode)  Payment Gateway Integration (Stripe/PayPal) |

**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** | Intuitive UI/UX for seamless navigation. |
| NFR-2 | **Security** | End-to-end encryption for user data. |
| NFR-3 | **Reliability** | 99.9% uptime with minimal buffering. |
| NFR-4 | **Performance** | Fast load times (<2s) for songs and playlists. |
| NFR-5 | **Availability** | Cross-platform support (Web, iOS, Android). |
| NFR-6 | **Scalability** | Handle 1M+ concurrent users efficiently. |