**Project Design Phase-II**

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

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| --- | --- |
| Date | 15 April 2025 |
| Team ID | 145206 |
| Project Name | Sociopedia |
| 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 Authentication | Registration via email/password. |
|  |  | Registration/login via Google/Facebook OAuth. |
|  |  | Password reset via email. |
| FR-2 | User Profile Management | Upload profile picture and edit bio. |
|  |  | Privacy settings (public/private account). |
| FR-3 | Post Creation & Interaction | Create posts with text, images, or videos. |
|  |  | Like, comment, and share posts. |
| FR-4 | Social Features | Send/accept friend requests. |
|  |  | Real-time notifications for interactions. |
| FR-5 | Admin Dashboard | Ban users or delete inappropriate content. |
|  |  | View analytics (active users, posts). |

**Non-functional Requirements:**

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

| **NFR No.** | **Non-Functional Requirement** | **Description** |
| --- | --- | --- |
| NFR-1 | Usability | Intuitive UI/UX with responsive design (mobile/web). |
| NFR-2 | Security | Encrypted passwords (bcrypt), JWT for sessions, and OAuth 2.0 for third-party logins. |
| NFR-3 | Reliability | 99.9% uptime; backup/recovery for MongoDB. |
| NFR-4 | Performance | API response time < 500ms; optimized React rendering. |
| NFR-5 | Availability | Deployed on scalable cloud platforms (e.g., AWS, Heroku). |
| NFR-6 | Scalability | Load-balanced servers and sharded MongoDB for high traffic. |