**Project Design Phase**

**Solution Architecture**

| Date | 10-10-2025 |
| --- | --- |
| Team ID | SWUID20250199287 |
| Project Name | Social Media App |

**Solution Architecture – Social Media App**

The solution architecture for the **Social Media App** ensures a **robust, scalable, and user-friendly platform** that enables users to connect, share content, and communicate in real-time. The architecture emphasizes **responsive design, secure data handling, personalized feeds, and real-time interactions** to provide a smooth and engaging user experience.

Key Features of the Architecture:

* **Seamless content creation and sharing** – Users can create, edit, and share posts, images, videos, and stories effortlessly.
* **End-to-end user engagement management** – Personalized feeds, likes, comments, shares, and notifications ensure users stay connected.
* **Scalable user authentication and authorization** – Supports secure login, OAuth integration, and role-based access.
* **Secure data handling and privacy controls** – Protects user information and media uploads with encryption and compliance measures.
* **Reliable real-time messaging and notifications** – Enables instant chat, push notifications, and alerting systems for engagement.
* **Moderation and reporting system** – Admins can monitor content, handle disputes, and maintain community standards.

**Example – Solution Architecture Diagram**

