**Project Design Phase**

**Solution Architecture**

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| Date | 10-07-2025 |
| Team ID |  |
| Project Name | Social Media App |
| Maximum Marks | 4 Marks |

**Solution Architecture:**

The solution architecture for **Social Media App** ensures a **robust, secure, and interactive platform** that enables users to connect, share, and engage in real time. The architecture focuses on **real-time communication, secure data handling, intuitive UI/UX, and scalable infrastructure** to deliver a seamless social media experience with high user satisfaction.

✔️ **Key Highlights:**

● **Real-time messaging and chat** using Socket.io for instant user communication

● **Seamless post and story creation**, with auto-deletion of stories after 24 hours

● **Scalable user authentication and authorization** using REST API and JWT for secure access

● **Robust data encryption and privacy protection**, ensuring user data security

● **Interactive notifications system** for likes, comments, follows, and mentions

● **Modular and scalable architecture**, allowing easy integration of features like AI content moderation and video calling in the future

● **Responsive design** for smooth experience across web and mobile platforms