**Solution Architecture**

**Date:  
26-05-2025**

**Team ID:  
[Enter Team ID]**

**Project Name:  
SocialeX**

**Maximum Marks:  
4 Marks**

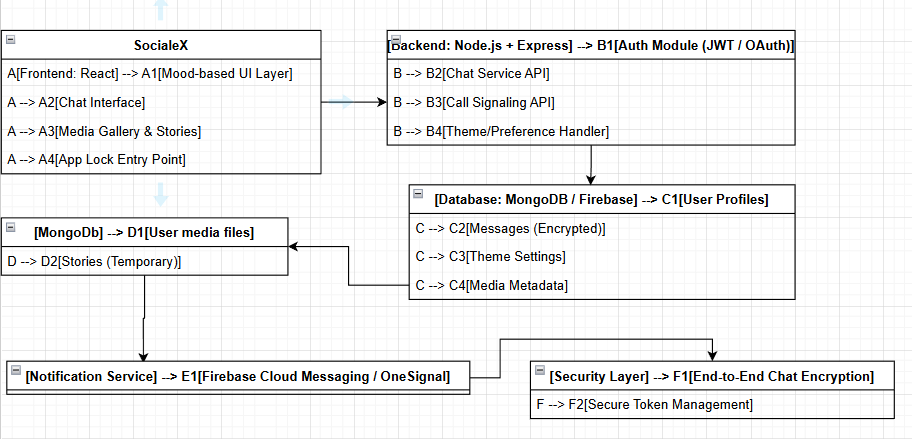
**Solution Architecture**

**The solution architecture for SocialeX is designed to deliver a secure, personalized, and high-performing messaging platform that enhances real-time communication and user engagement. The architecture emphasizes privacy, scalability, and feature integration to support a seamless social experience across devices.**

**✅ Key Architectural Features:**

* **Integrated Chat System – Real-time messaging with support for text, media, and file sharing**
* **Voice & Video Calling Module – Low-latency, high-quality calls optimized for slow networks**
* **App Lock & Authentication – Biometric/PIN-based lock integrated with secure login and session management**
* **Mood-based Themes – Frontend logic for dynamic UI customization based on user-selected mood**
* **Media Sharing – Efficient handling of images, videos, and stories through cloud-based storage (e.g., AWS S3 or Firebase)**
* **Notification System – Push notifications for messages, calls, and media interactions**
* **User Profile Management – Personal settings, theme history, chat backups, and profile visibility controls**
* **Scalable Backend – Node.js with Express for APIs, MongoDB for NoSQL user/message storage**
* **Frontend – Built with React + Tailwind CSS for a responsive and modern UI**
* **Security Layer – End-to-end encryption for chats, secure token-based authentication, and encrypted media URLs**

**📊 Example – Solution Architecture Diagram**

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