**Project Design Phase**

**Problem – Solution Fit Template**

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| Date | |  | | --- | | 5 Oct 2025 | |
| Team ID | |  | | --- | | SWUID20250179172 | |
| Project Name | |  | | --- | | Social Media App | |
| Maximum Marks | 2 Marks |

**Problem – Solution Fit Overview:**

**1. Purpose**

The primary purpose of this project is to create a secure, modern, and user-friendly social media platform that enables seamless real-time communication, content sharing, and collaboration. It is designed especially for students, freelancers, and remote users who need efficient tools for messaging, networking, and staying updated, all within a single application.

**2. Problem Statement**

Existing social media platforms often fail to meet the needs of users who require smooth collaboration and instant communication. Features like real-time chat, temporary story sharing, and reliable data privacy are either missing or insufficient. Users face fragmented experiences—having to switch between multiple tools for communication, file sharing, and interaction. Moreover, concerns about data breaches and lack of customization negatively impact user trust and engagement.

**3. Proposed Solution**

To solve these issues, we propose developing a full-stack web application using the MERN stack (MongoDB, Express.js, React.js, Node.js) with Socket.io integration for real-time capabilities. The application will include:

* Secure JWT-based authentication and encrypted communication
* Real-time messaging and notifications using WebSockets
* Post and story sharing with media support
* Profile management and follow system
* Content discovery, saving, and engagement features (likes, comments)

By combining modern UI with a robust backend, this solution ensures high performance, data security, and an engaging user experience tailored for collaborative and social interaction.