

Project Design Phase
Problem – Solution Fit Template

Date	26-06-2025
Team ID	SWUID20250172428
Project Name	Social Media App
Maximum Marks	2 Marks

Problem – Solution Fit Overview

The **Problem–Solution Fit** confirms that **SocialeX** addresses real user pain points in social interaction and media sharing, ensuring that the platform truly serves its target audience before scaling further.

Purpose:

- Provide a social platform with **real-time connectivity** through chat and notifications.
- Offer a **seamless multimedia experience** (posts, stories) in a single app.
- Enable **secure, authenticated engagement** with user privacy in mind.
- Enhance user degrees of freedom via **search, filter, and profile interactions**.
- Promote trust and quality visibility through **authentic stories, notifications**, and feed management.

Problem Statement

SocialeX tackles these key challenges in social app UX:

- Lack of real-time engagement and limited interactivity
- Fragmented sharing tools across different apps
- Manual and insecure authentication and media uploads
- Difficulty discovering relevant users or trending content
- Limited trust indicators like story visibility or prompt updates

Proposed Solution

SocialeX, a real-time MERN social platform, solves these by providing:

- **Instant chat & notifications** with Socket.io integration
- Unified **text/image post** interface + **24-hour stories** for dynamic sharing
- **Secure authentication** with JWT and Firebase-powered media uploads
- **Searchable feeds** and profile pages for easy user discovery
- **Timestamped stories & notifications**, boosting authenticity and interaction

Value Proposition

- Enables **live interactions**—users can chat and receive notifications instantly.
- Simplifies media sharing within one cohesive platform.
- Ensures **secured uploads and profile authenticity** via Firebase and JWT.
- Supports discovery and engagement through **search** and **filtered feeds**.
- Encourages user activity and visibility via ephemeral story features.

Alignment with Repo

- Backend/API logic located in **server/** folder
- Socket-based **chat module** under `src/components/chat/`
- **Posts & Stories UI** in `src/components` and `src/pages/`
- **Search filters** implemented in feed components
- **Firebase** integration for media uploads present in `firebase.js`