**Project Design Phase Problem – Solution Fit Template**

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| Date | 26-06-2025 |
| Team ID | SWUID20250172439 |
| 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