# Project Design Phase – SocialX

## System Architecture

Included in the provided architecture diagram PDF, SocialX follows a classic MERN stack structure enhanced with real-time communication features using Socket.io.

## ER Diagram

Provided in the PDF. Highlights include:

* User-Post relationship (one-to-many)
* Comments and Likes linked to Posts
* Chat system modeled with messages tied to conversation threads

## Component Design

* \*\*Frontend\*\*: Modular React components for posts, profile, chat, notifications.
* \*\*Backend\*\*: RESTful API structure with controllers/services.
* \*\*Database\*\*: MongoDB schemas for User, Post, Message, Like, and Notification collections.