End-to-End Flow Diagram – Mini Social Wall

Frontend (React)

Login Page, Signup Page, Home / Feed Page, Create Post Page, Post Card Component, Like Button, Comment Section

Backend (Node.js + Express)

POST /auth/signup
POST /auth/login
GET /posts
POST /posts (Image Upload using Multer)
POST /posts/:id/like
POST /posts/:id/comment

Database (MongoDB)

Users (id, username, email, password)
Posts (id, userId, text, image_url, likes, createdAt)
Comments (id, postId, userId, comment, createdAt)

System Flow

User → Frontend → Backend → Database → Backend → Frontend

The user interacts with the React frontend. The frontend sends API requests to the Express backend. The backend processes the request, interacts with MongoDB collections, and sends a response back to the frontend to update the UI.