□ Updated Project Summary

Project Overview

A full-stack Al-powered social media automation tool that:

- Accepts a title and tone (Motivational, Funny, Polite, Rude).
- Generates Al-based comment suggestions using OpenAl or Gemini.
- Allows users to select platforms (Twitter, LinkedIn, Instagram, etc.).
- Posts the selected comment to all chosen platforms.
- Stores user actions and metadata in MongoDB.

• Frontend: ReactJS

• Backend: Spring Boot

• Database: MongoDB

· Authentication: Spring Security with Basic Auth

• Session Management: LocalStorage

☐ Core Features

- User Signup/Login with Basic Auth
- Persistent login using localStorage
- Al-generated comments with tone selection
- Multi-platform posting
- Activity logging in MongoDB (user, comment, tone, platform, timestamp)

Workflow

- 1. User signs up or logs in.
- 2. Inputs a title, selects tone and platforms.
- 3. Clicks "Generate Comments"

 Al returns 3 suggestions.
- 4. User selects one and clicks "Post".
- 5. The comment is posted to all selected platforms.
- 6. Metadata is saved in MongoDB.
- 7. Session persists until logout.

- AuthContext.jsx: Manages login state and token
- Login.jsx, Signup.jsx, Home.jsx: Pages
- ToneSelector.jsx, PlatformSelector.jsx, CommentOptions.jsx: UI components
- App.jsx, index.js: Routing and entry point

- Controllers: AuthController, PostController
- Config: SpringSecurity.java using SecurityFilterChain
- Models: User, PostRequest, PostHistory
- Services

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- AlService: Connects to OpenAl/Gemini
- SocialPostService: Handles posting (mocked or real)
- UserService: Manages user data
- Repositories: UserRepository, PostHistoryRepository

☒ Spring Security Configuration

- Uses SecurityFilterChain for cleaner configuration
- Enables Basic Auth and disables CSRF for stateless APIs
- CORS configured for frontend integration
- · Passwords hashed using BCryptPasswordEncoder
- Public endpoints: /auth/signup, /auth/login
- · All other endpoints require authentication

Additional Notes

- AI API calls are securely made from the backend
 Posting to platforms can be mocked or real using APIs
 MongoDB logs all user activity
 UI will be polished with a purple theme after core functionality is stable