

## Idea 1: Social Media Forum

**Title:** Interactive Social Media Forum

### High-Level Overview:

The Interactive Social Media Forum is designed to provide users with a platform where they can create and share posts, engage with comments, and explore profiles of other users. This project aims to create a community-driven space for discussions, content sharing, and social interactions.

### Key Features:

- **User Authentication and Profiles:**
  - User registration and login.
  - User profile pages displaying user information and activity.
  - Profile customization options.
- **Post Creation and Management:**
  - Users can create text posts with options to add images or videos.
  - Posts can be edited or deleted by the author.
  - Tags and categories for posts to organize content.
- **Comments and Interactions:**
  - Users can comment on posts.
  - Nested comments for better discussion threading.
  - Like and dislike buttons for posts and comments.
- **User Interaction and Networking:**
  - Follow/unfollow users to see their posts in a personalized feed.
  - Direct messaging between users.
  - Notifications for likes, comments, follows, and messages.
- **Moderation and Administration:**
  - Admin panel for managing users and content.
  - Reporting system for inappropriate content.
  - Role-based access control (admin, moderator, user).

### Technologies:

- **Frontend:** JavaScript, HTML
  - **Backend:** Spring Boot, Java
  - **Database:** PostgreSQL
  - **Authentication:** Spring Security
  - **Hosting:** Local development server
  - **Task Tracking:** NotePad
  - **Version Control:** GitHub
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## Idea 2: Simple Task Manager

**Title:** Tiny Task Tracker

## High-Level Overview:

The Tiny Task Tracker is a minimalistic task management application where users can add, edit, and delete tasks. This project focuses on providing the bare essentials needed to keep track of to-dos.

## Key Features:

- **User Authentication:**
  - Basic user registration and login.
- **Task Management:**
  - Create tasks with a title and description.
  - Edit and delete tasks.
  - Mark tasks as complete or incomplete.

## Entities:

- **User:**
  - `id` (serial)
  - `username` (varchar)
  - `email` (varchar)
  - `password` (varchar)
- **Task:**
  - `id` (serial)
  - `user_id` (foreign key referencing User)
  - `title` (varchar)
  - `description` (varchar)
  - `completed` (boolean)
  - `created_at` (timestamp)

## Technologies:

- **Frontend:** Basic HTML and JavaScript
- **Backend:** Spring Boot, Java
- **Database:** PostgreSQL
- **Authentication:** Spring Security
- **Hosting:** Local development server
- **Task Tracking:** NotePad
- **Version Control:** GitHub