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Proposal

1. Description:

A cross-platform mobile app that recommends posts to users based on their progress in a tv series to avoid spoilers and promote a safe fandom experience. It will have a simple UI similar to Tumblr, where users can read and write text-based posts about fandoms they enjoy. We will implement Retrieval-Augmented Generation (Section 5) to flag spoilers and improve the user experience.

2. Libraries

- Frontend: Flutter, Dart
- Backend: Express, TypeScript, Node
- LLM: OpenAI
- Database: TypeORM, PostgreSQL, hosted by Neon
- Containerization: Docker

3. Features

1) User accounts and authentication
2) Text-based UI similar to Tumblr

Figure 1. Sample text based UI.

3) Ability to input your current episode for a given tv show
4) Recommendation of posts based on current episode in a series - spoiler control, tagging system
5) Post interactions like liking and commenting
6) User following system
7) User customization like profile pictures

4. Stretch Goals

- Support for multimedia posts (images, videos)
- Support for media types beyond tv shows (movies, games)
- Enhanced profile customization (themes, advanced layouts)

5. Retrieval Augmented Generation

Retrieval-Augmented Generation is a method of allowing llms to respond to queries using supporting information beyond their training data.

Our implementation will involve retrieving relevant transcript data from a database to inform llm spoiler detection.

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