Social Feed App (Cloudy Social) - Technical Overview

Github: <https://github.com/itstanany/Cloudy-Social>

--- Review GitHub readme for better docs and screenshots

# Architecture & Design Patterns

The application implements MVC with BLoC pattern, chosen for:

- Clear separation of concerns

- Predictable state management

- Improved testability

- Efficient UI updates

# Key Technical Decisions

\* State Management

- BLoC pattern for complex state handling

- Event-driven architecture

\* Routing:

- GoROuter

\* Data Layer

- Floor (SQLite) for type-safe database operations

- Local image storage for performance

- Cached network images for efficient loading

\* UI/UX Features

- Animated like interactions

- Error state management

# Post Sorting Algorithm

Three distinct algorithms implemented:

Recent: chronological ordering

Popular: likes-based ranking

Trending: score = (likes × 1.0) × (1.0 / (1 + hoursSincePost) × 2.0)

\* Performance Optimizations

- Image compression

- Efficient list rendering

- Resource cleanup

- State caching

\* Security Measures

- Password hashing

- Input validation