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 \times 1.0) \times (1.0 / (1 + hoursSincePost) \times 2.0)

- * Performance Optimizations
- Image compression
- Efficient list rendering
- Resource cleanup
- State caching
- * Security Measures
- Password hashing
- Input validation