weekly_summary_system_implementation

Weekly Summary System - Complete Implementation

Successfully implemented a comprehensive weekly summary system for the Reflect journaling application that generates AI-powered weekly narratives from daily journal entries and provides seamless calendar integration.

Core Features Implemented:

1. Weekly Summary Generation System
- Database schema for storing weekly summaries with proper relationships to daily entries
- AI service integration using WebLLM to generate cohesive weekly narratives from multiple daily entries
- AI analysis pipeline for weekly summaries generating happiness metrics and emotional insights
- Weekly summary data model supporting themes, notable moments, and emotional arcs

2. Calendar View Integration
- Visual indicators (green document icons) on calendar for weeks with generated summaries
- Interactive weekly summary access directly from calendar interface
- Week-level navigation with highlighting when hovering over weekly indicators
- Enhanced hover tooltips showing weekly themes, sentiment, and summary previews
- Comprehensive modal interface for viewing full weekly summaries and their AI analysis
- Seamless integration with existing daily entry color coding and hover functionality

3. Enhanced Batch Analysis Workflow
- Multi-phase processing system: Daily analysis → Weekly summary generation → Weekly AI analysis
- Comprehensive progress tracking with phase indicators and descriptive feedback
- One-click solution combining individual entry analysis with weekly summary generation
- Real-time calendar updates showing newly generated weekly summaries
- Robust error handling for each processing phase
- Enhanced UI with statistics showing both daily and weekly processing status

Technical Achievement:

The implementation successfully extends the existing AI analysis infrastructure to support weekly meta-analysis while maintaining compatibility with all existing features. Users can now:

- Generate weekly summaries that synthesize themes and emotional patterns from daily entries

- Access weekly narratives directly from the calendar with visual indicators

- Run comprehensive batch analysis covering both daily and weekly insights in a single operation

- View weekly trends and patterns in the enhanced Insights dashboard

- Navigate seamlessly between daily entries and weekly summaries

Final Deployment:

https://6jw816zh05fl.space.minimax.io

This completes the core AI-powered weekly reflection functionality from the original MVP specification, providing users with powerful tools for understanding their emotional journey over both daily and weekly timeframes.

Key Files

- reflect-journal/src/services/weeklyService.ts: Complete Weekly Summary Generation System with database schema and AI integration

- reflect-journal/src/components/Calendar/Calendar.tsx: Enhanced Calendar component with weekly summary indicators and interaction

- reflect-journal/src/components/BatchAnalysis/BatchAnalysisButton.tsx: Updated batch analysis workflow supporting both daily entries and weekly summaries