CLST Claude Project - Prompting Strategy & Implementation Plan

Part 1: Claude Project Prompting Strategy

Project Setup Instructions for Claude

CLST Digital Closet Application - Project Context

Project Overview

You are helping build CLST, a modern fashion/closet management platform with:

- Digital closet management
- Fashion marketplace
- Style challenges
- Trend tracking
- Social features

Technical Stack

- React 18+ with TypeScript
- Vite for build tooling
- Zustand for state management
- React Query for server state
- React Router v6 for routing
- Tailwind CSS for styling
- Vitest for testing
- i18n for internationalization

Architecture Requirements

- Feature-based folder structure
- Zero technical debt approach
- Mobile-first responsive design
- Offline-first with advanced caching
- Virtual scrolling for large lists
- Comprehensive analytics
- WCAG AAA accessibility
- Sub-second load times

Code Standards

- 100% TypeScript coverage
- Functional components with hooks
- Custom hooks for business logic
- Comprehensive error boundaries
- Optimistic UI updates
- Progressive enhancement

Systematic Prompting Strategy

Prompt 1: Initial Architecture Setup

I need help building a modern React TypeScript application called CLST - a digital closet and fashion community platform.

Key features:

- 1. Digital closet management (add/edit/delete clothing items)
- 2. Outfit creation and planning
- 3. Fashion marketplace (buy/sell)
- 4. Style challenges
- 5. Trend tracking

Technical requirements:

- Feature-based architecture
- TypeScript with strict mode

- Zustand for state management
- Virtual scrolling for large lists
- Offline-first with caching
- i18n support
- Advanced analytics

Please provide:

- 1. Complete project structure
- 2. Core type definitions
- 3. Base component architecture
- 4. State management setup

Focus on scalability and zero technical debt.

Prompt 2: Core Feature Implementation

Now let's implement the core features for CLST. I need:

- 1. Authentication module with:
 - Email/password login
 - Email verification flow
 - Password reset
 - Secure token management
- 2. Digital closet module with:
 - CRUD operations for clothing items
 - Categories: tops, bottoms, shoes, accessories, outerwear
 - Image management
 - Tagging system
 - Search and filtering
 - Virtual scrolling for large collections
- 3. Outfit creation:
 - Combine items into outfits
 - Save outfit combinations
 - Weekly planning feature
 - Weather integration

Please provide complete implementations with TypeScript types, Zustand stores, and React components.

Prompt 3: Advanced Features

Let's add advanced features to CLST:

- 1. Marketplace functionality:
 - List items for sale
 - Browse and search listings
 - Secure transactions
 - Seller ratings
 - Favorites system
- 2. Style challenges:
 - 30-day challenges
 - Progress tracking
 - Community participation
 - Rewards system
- 3. Performance optimizations:
 - Implement virtual scrolling with react-window
 - Advanced caching with React Query and IndexedDB
 - Progressive image loading
 - Code splitting by route
 - Bundle size optimization

Include analytics tracking and error handling.

Prompt 4: Internationalization & Analytics

Add comprehensive i18n and analytics to CLST:

- 1. Internationalization:
 - Support for EN, ES, FR, JA
 - Dynamic language switching
 - Localized formatting (dates, currency)
 - Translation management system
 - RTL support preparation
- 2. Analytics implementation:
 - Multi-provider setup (Mixpanel, PostHog, Sentry)
 - Event tracking system
 - User behavior analytics
 - Performance monitoring
 - Error tracking with context
 - Revenue tracking
- 3. Testing strategy:
 - Unit tests for components
 - Integration tests for features
 - E2E test setup
 - Accessibility testing

Provide complete implementations with examples.

Prompt 5: Production Readiness

Make CLST production-ready:

- 1. Security implementations:
 - Input sanitization
 - CSRF protection
 - Secure authentication
 - Data encryption
 - Rate limiting
- 2. CI/CD pipeline:
 - GitHub Actions workflow
 - Automated testing
 - Code quality checks
 - Performance budgets
 - Deployment scripts
- 3. Monitoring & Observability:
 - Error tracking setup
 - Performance monitoring
 - User analytics dashboard
 - Health checks
 - Alerting system
- 4. Documentation:
 - API documentation
 - Component library docs
 - Deployment guide
 - Contributing guidelines

Advanced Development Prompts

Prompt 6: AI Features

Add AI-powered features to CLST:

- 1. Outfit recommendations:
 - ML-based style matching

- Personalized suggestions
- Trend prediction
- Color coordination
- 2. Image recognition:
 - Auto-categorize clothing
 - Extract colors/patterns
 - Brand detection
 - Similar item search
- 3. Virtual try-on:
 - AR implementation
 - Size recommendations
 - Fit prediction

Integrate with existing architecture.

Prompt 7: Trophy Case & Achievements

Create a comprehensive trophy case system for CLST challenges:

- 1. Trophy Case Page:
 - Accessible from Challenges page
 - Visual trophy/badge display
 - Achievement categories
 - Progress indicators
 - Sharing capabilities
- 2. Achievement Types:
 - Challenge completion badges
 - Streak achievements
 - Milestone rewards
 - Seasonal trophies
 - Community recognition
- 3. Trophy Details:
 - Achievement name and description
 - Date earned
 - Rarity level
 - Associated challenge
 - Points/rewards earned
- 4. Features:
 - Animated trophy reveals
 - Progress tracking
 - Leaderboard integration
 - Social sharing
 - Export/showcase options

Please provide complete TypeScript implementation with:

- Trophy types and interfaces
- Zustand store for achievements
- Trophy case components
- Animation system
- Responsive grid layout

Prompt 8: Social Features

Implement social features for CLST:

- 1. User profiles:
 - Follow/follower system
 - Activity feed
 - Style inspiration boards
 - Outfit sharing
- 2. Community features:
 - Comments and likes

- Direct messaging
- Group challenges
- Style forums
- 3. Influencer tools:
 - Analytics dashboard

 - Sponsored content - Affiliate links
 - Brand partnerships

Project Configuration Prompts

Environment Setup

Set up the development environment for CLST with:

- VS Code settings
- ESLint configuration
- Prettier setup
- Git hooks with Husky
- Environment variables structure
- Docker configuration
- Development scripts

Performance Optimization

Optimize CLST for maximum performance:

- Lighthouse score > 95
- Sub-second load times
- 60fps scrolling
- Minimal bundle size
- Efficient re-renders
- Memory leak prevention