ClueMe iOS Fluid Redesign & Notification Overhaul

🎯 Overview

This PR completes the comprehensive transformation of ClueMe from a cross-platform app to an iOS-only application with a modern fluid design system and robust notification infrastructure.

✨ Key Changes

🔔 iOS Notification System

- **New NotificationService**: Complete rewrite with proper iOS UNUserNotificationCenter integration
- **UK Date Formatting**: All notifications use proper UK date format (DD/MM/YYYY)
- **Background/Foreground Handling**: Proper notification handling in all app states
- **Permission Management**: Streamlined permission requests with fallback handling
- **Test Notifications**: Built-in testing capabilities for development

🎨 Fluid Design System

- **FluidContainer**: Modern container component with proper spacing
- **FluidHeader**: Flexible header with back button and right action support
- **FluidButton**: Enhanced button component with icon support and variants
- **FluidCard**: Clean card component replacing old card-based designs
- **FluidList**: Optimized list component for iOS

📱 Screen Redesigns

- **HomeFluid**: Complete home screen redesign with modern iOS patterns
- **RemindersFluid**: Streamlined reminders interface
- **ListsFluid**: Clean lists management interface
- **CalendarFluid**: Interactive calendar with UK date formatting
- **FamilyFluid**: Family management with member status indicators
- **SettingsFluid**: Comprehensive settings interface with proper grouping

🧹 Code Cleanup

- **Removed Android**: All Android-specific code, build files, and dependencies removed
- **Eliminated Card Components**: Replaced all card-based UI with fluid components
- **Updated Navigation**: TabNavigator now uses all new fluid screens
- **Fixed TypeScript Issues**: Resolved import conflicts and type mismatches
- **Enhanced Contexts**: Updated SettingsContext with missing properties

🔧 Technical Improvements

Notification Infrastructure

```
// New UK-formatted notifications
const content = this.generateUKNotificationContent(
  'Meeting Reminder',
  new Date(),
  'reminder'
);
// Output: "Time for 'Meeting Reminder' - scheduled for 14:30 today (15/08/2025)"
```

Modern iOS Design Patterns

- Consistent 16px border radius for modern look
- Proper shadow implementation with elevation
- iOS-standard spacing and typography
- Fluid animations and transitions
- Accessibility-compliant touch targets (44px minimum)

UK Localization

- All dates display in DD/MM/YYYY format
- Time in 24-hour format (HH:mm)
- Proper British English spelling and terminology
- Relative date formatting ("Today", "Tomorrow", "Yesterday")

📋 Testing Checklist

Notifications

- [ ] Foreground notifications display correctly
- [ ] Background notifications work when app is minimized
- [ ] Notification permissions are properly requested
- [ ] UK date formatting appears in all notifications
- [ ] Test notification functionality works

UI/UX

- [ ] All screens use fluid design components
- [ ] Navigation between screens works smoothly
- [ ] Header actions (add, settings, etc.) function correctly
- [ ] Button icons display properly
- [ ] Dark/light theme support maintained

Functionality

- [ ] Reminder creation and editing works
- [ ] List management functions correctly
- [ ] Calendar navigation and event display
- [ ] Family member management
- [ ] Settings persistence

🚀 Deployment Notes

iOS Configuration

- Ensure notification entitlements are properly configured
- Verify Info.plist includes required notification permissions
- Test on physical iOS device for notification functionality

Dependencies

- Added `date-fns` for robust date formatting
- Updated `react-native-push-notification` configuration
- Removed all Android-specific dependencies

📊 Impact

Performance

- Reduced bundle size by removing Android code
- Optimized for iOS-only deployment
- Streamlined notification handling

User Experience

- Modern, native iOS feel
- Consistent UK date formatting
- Improved accessibility
- Cleaner, more intuitive interface

Developer Experience

- Better TypeScript support
- Cleaner component architecture
- Easier maintenance with single platform focus
- Comprehensive notification testing tools

🔄 Migration Guide

For Existing Users

- All existing data remains compatible
- Notification preferences are preserved
- UI changes are purely visual improvements

For Developers

- Import fluid components from `src/components/design-system`
- Use `NotificationService` for all notification operations
- Apply UK date formatting with `formatDateUK` utilities
- Follow new design system patterns for consistency

📝 Future Enhancements

- [ ] Add more fluid components (FluidModal, FluidInput, etc.)

- [ ] Implement advanced notification scheduling
- [ ] Add notification analytics
- [ ] Enhance accessibility features
- [ ] Add haptic feedback integration

Branch: `fluid-ios-revamp`
Files Changed: 72 files
Lines Added: 23,411
Lines Removed: 6,756

This transformation positions ClueMe as a premium iOS application with modern design patterns and robust notification infrastructure, ready for App Store deployment.