

ClueMe iOS Notification System - Simplified & Improved

✓ COMPLETED TASKS

1. Android Code Removal

- ✓ Removed entire `android/` directory (kept `.gitkeep` for structure)
- ✓ Updated `app.json` to remove Android configuration
- ✓ Updated `package.json` to remove Android scripts and dependencies
- ✓ Updated platforms to iOS-only in configuration

2. New iOS-Only Notification Service

- ✓ Created `src/services/iOSNotificationService.ts` - Clean, simplified iOS-only service
- ✓ UK time formatting with `en-GB` locale and `Europe/London` timezone
- ✓ Proper foreground/background notification handling
- ✓ Simplified notification scheduling with better error handling
- ✓ FCM token management with Firestore integration

3. New iOS Notification Hook

- ✓ Created `src/hooks/useIOSNotifications.ts` - Simplified hook for iOS notifications
- ✓ Better error handling and state management
- ✓ Platform-specific checks (iOS-only)

4. Toast Notification System

- ✓ Created `src/components/common/IOSToastNotification.tsx`
- ✓ iOS-style toast notifications for foreground messages
- ✓ Toast manager for centralized notification display
- ✓ Integrated into main `App.tsx` with `<IOSToastContainer />`

5. iOS Configuration Updates

- ✓ Updated `ios/ClearCue2/Info.plist` with proper notification permissions
- ✓ Added UK-specific notification descriptions
- ✓ Maintained background modes for proper notification handling

6. Test Screen

- ✓ Created `src/screens/IOSNotificationTestScreen.tsx`
- ✓ Comprehensive testing interface for all notification features
- ✓ Real-time status monitoring and test results
- ✓ UK time formatting validation

7. App Integration

- ✓ Updated `App.tsx` to use new iOS notification service
- ✓ Removed old notification service imports
- ✓ Added toast container for foreground notifications

-  Simplified initialization process

KEY IMPROVEMENTS



Simplification

- **Before:** 3 complex services (notificationService, globalNotificationService, multiple hooks)
- **After:** 1 clean iOS-only service with focused functionality

UK Time Formatting

- **Before:** Generic time formatting
- **After:** Proper UK locale (`en-GB`) with `Europe/London` timezone
- **Format:** 24-hour time format, British date formatting

Notification Quality

- **Before:** Generic notification titles/bodies
- **After:** Informative, context-aware notifications with emojis and priority indicators
- **Examples:**
 -  Buy groceries - Due in 15 minutes
 -  HIGH PRIORITY: Doctor appointment - Due now on Friday, 15 August 2025 at 14:30

Error Handling

- **Before:** Silent failures, complex error paths
- **After:** Proper error handling, user feedback, graceful degradation

READY FOR TESTING

The system is now ready for testing on iOS devices. Key features:

1. **Local Notifications:** Scheduled notifications with UK time formatting
2. **Push Notifications:** FCM-based notifications for assigned tasks
3. **Toast Notifications:** Foreground notification display
4. **Background Processing:** Proper background notification handling
5. **Test Interface:** Comprehensive testing screen at `/NotificationTest`

NEXT STEPS

1. Test on physical iOS device
2. Verify notification permissions work correctly
3. Test background/foreground notification scenarios
4. Validate UK time formatting in real notifications
5. Once 100% working, proceed with app redesign from card-based to fluid design

USAGE

```
// Use the new iOS notification hook
import { useIOSNotifications } from '../hooks/useIOSNotifications';

const { scheduleReminderNotifications, sendTestNotification } = useIOSNotifications();

// Schedule reminder with UK formatting
await scheduleReminderNotifications({
  id: 'reminder-1',
  title: 'Doctor Appointment',
  dueDate: '2025-08-15T14:30:00.000Z',
  dueTime: '14:30',
  priority: 'high'
});
```

The notification system is now **100% iOS-focused**, **simplified**, and **ready for production testing**.