

# Sanigear Kiosk App - Developer Notes & Reminders

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## 1. Versioning & Release Process

When releasing a new version of the app, follow these steps:

- Update the versionCode and versionName in `build.gradle`:
  - Example:  
versionCode 6  
versionName "1.6"
- Tag the release in GitHub using the format: SanigearKiosk\_vX.X
- Upload the new APK to the GitHub release under "Assets".
- Ensure the tag\_name used in the GitHub release matches the versionName (without quotes).

## 2. Auto-Update Integration

The app checks GitHub once a week or on manual trigger for a newer version.

Reminders:

- Make sure the uploaded APK is properly signed.
- File name should be consistently named (e.g., app-release.apk or app-debug.apk).
- The GitHub API endpoint used is:  
<https://api.github.com/repos/jhermo1229/SanigearKioskReleases/releases/latest>
- Newer version is detected by comparing tag\_name with current versionName.

## 3. Watchdog Service Notes

- Watchdog monitors foreground apps and restricts unauthorized ones.
- If adding apps like print services or installers to the allowed list, add their package names in the whitelist inside AppWatchdogService.java.

- The admin override (volume-up 5x) disables watchdog temporarily.

#### **4. Permissions & Device Owner Setup**

- Ensure the app is set as Device Owner before first boot using ADB.
- Required permissions:
  - REQUEST\_INSTALL\_PACKAGES
  - PACKAGE\_USAGE\_STATS
  - FOREGROUND\_SERVICE
- Kiosk lock is activated via `startLockTask()` inside `MainActivity`.

#### **5. Admin Functions**

- Admin override unlocks kiosk mode via volume-up 5 times.
- Hidden admin panel can be used for diagnostics and update triggers.
- "Check for Update" button can be manually used to verify latest GitHub version.