TiviMate Helper App: Development Discussion

GOAL:
Develop a helper app that:

1. Authenticates the user with your IPTV server.
2. Downloads a user-specific playlist.
3. Converts/prepares it for local playback using a PHP server.
4. Transfers the playlist to TiviMate.
5. Runs the local PHP server in the background.

☑ You already have this system working for PC, now want to make it mobile-friendly using TiviMate.

FEATURES PLANNED:

- Embedded local PHP server in helper app.
- Playlist generated after authentication and served on localhost.
- Modded TiviMate APK bundled inside helper app (for offline installation).
- Helper app will detect if TiviMate is installed; if not, extract and prompt user to install.
- No need for users to access external links or root their device.

TECHNICAL NOTES:

- Use `FileProvider` in Android to install APK from assets.
- PHP server can be embedded using Termux/compiled binaries or KSWEB-like wrapper.
- Helper app will act as a foreground service to keep PHP server running.
- User flow: open app → authenticate → download playlist → auto-serve on localhost → open in TiviMate.

LEGAL NOTE:

- Only for personal/private use (friends/family).
- No public or commercial distribution of modded APKs.
- You're avoiding server-based hosting of APK to reduce legal risk.

STATUS:
You will begin work next week after travel.
You will share this PDF as a checkpoint to resume with the assistant.

Next Steps:

- Prepare Android project skeleton (helper app).
- Add embedded PHP server setup.
- Embed modded TiviMate APK into assets.
- Add logic for authentication and playlist generation.

- Design foreground service to run PHP.
- Auto-launch or guide TiviMate to use the playlist.

End of Discussion Summary.