USE CASES

**🎯 Main Use Cases**

These define the **core purpose** of your system:

1. **Verify the Safety of a QR Code**  
   🔹 This is the *primary functional use case* — it’s what your system is built for.  
   🔹 All internal steps like scanning, decoding, checking with GSB API, and displaying results are part of this.
2. **Install and Use the App as a PWA**  
   🔹 This defines your system’s *platform behaviour*.  
   🔹 It lets users install and run the system like a mobile or desktop app.

**🎨 Optional UX-Oriented Layers**

These aren't core but **enhance usability** and give users **control** or **flexibility**:

1. **Manually View / Copy / Open the Scanned URL**  
   🔹 Helps users decide what to do with the verified URL.  
   🔹 Improves trust and usability without compromising safety.
2. **Allow Rescanning / Clearing Results**  
   🔹 Improves smooth flow between multiple QR verifications.
3. **Show Status Messages / Errors Gracefully**  
   🔹 Makes the app more professional and user-friendly.

**🌟 Selected Value-Adding Features**

**🎯 1. Core Usability Enhancements**

These features directly improve how the user interacts with the system.

* ✅ **Copy URL Button** – Lets users copy the scanned URL.
* ✅ **Manual URL Entry** – Users can paste a URL for safety check (beyond QR).
* ✅ **Clear/Reset Button** – Resets the current scan/session without reloading.
* ✅ **Scan History (Local)** – Stores a private history of previously scanned URLs.
* ✅ **Light/Dark Mode Toggle** – User can switch themes based on preference.
* ✅ **Animated Feedback** – Visual indicators (icons/colors) to reflect safety status clearly.

**📱 2. PWA & Mobile Experience Enhancements**

These features enhance the mobile-app-like behavior of your system.

* ✅ **Install App Prompt** – Prompts user to install the app on mobile or desktop.
* ✅ **App Icon & Splash Screen** – Provides a branded app-like startup experience.

**🔐 3. Safety & Trust Features**

These increase user confidence and deliver clearer security signals.

* ✅ **Threat Type Display** – Shows specific threat (e.g., malware, phishing) if detected.
* ✅ **Verified Badge** – Shows a “safe” or “verified” badge when the URL passes safety checks.
* ✅ **Report Suspicious QR** – Lets users report a QR code they believe is suspicious.

**🖼️ 4. Advanced Input Option**

This adds a flexible way to interact with the system.

* ✅ **QR Image Upload** – Users can upload an image of a QR code instead of scanning live.

END