**Phase-wise roadmap**

**Project:** Next-Gen Invisible Anti-Counterfeit Solution

**Phase 1: (POC)**

**Estimated time:- 30 days (Most probably will be done before March end.)**

* Develop a **custom and novel algorithm** to embed the **invisible pattern** (Built using Moire pattern to avoid any patent infringements) into standard prints which is impossible to clone and duplicate.
* **AI-based image recognition for pattern extraction and verification**
* A basic application with camera scanning for verification of the invisible pattern.

**Phase 2: (Refining App and Blockchain integration)**

**Estimated time:- 30 days**

Finalization of **invisible marking techniques**

* User-friendly **mobile UI/UX design** application with seamless interaction and AI **driven detection system** that scans and authenticates patterns
* Blockchain integration and **tokenization framework** (About converting fiat to tokens).

**Phase 3:**

**Estimated time: - 15 days**

Refine and optimize all components, ensuring **market-readiness**.

* **Improved scanning reliability** across different smartphones.
* Enhanced **real-time image processing** & faster authentication.
* UX refinements for **seamless user experience**.
* **Scalability test** for high transaction volumes.