## **Phase 1 —>**

## **1️⃣ Police Verification & Token Generation**

1. Tourist provides physical documents:  
   * Indian → Aadhaar
   * Foreigner → Passport
2. Police verify documents manually.
3. Once verified, police generate a **unique token** (NFT or ERC20) on **Ethereum blockchain**, storing verified info:  
   * Name
   * Aadhaar (for Indian) or Passport (for foreigner)
   * Mobile Number
   * Verified Status
4. FastAPI backend stores **mapping**:  
    ID → Token\_ID → Mobile Number  
   * ID = Aadhaar for Indians, Passport for foreigners

## **2️⃣ Tourist Mobile App Login**

1. Tourist opens app and enters:  
   * Indian → Aadhaar + Password
   * Foreigner → Passport + Password
2. Backend checks the database:  
   * Does this ID exist?
   * Is a token issued?
3. If yes → generate OTP → send to mobile linked to the token.
4. Tourist enters OTP → backend verifies.

## **3️⃣ Profile Access (Blockchain Integration)**

1. After OTP verification, backend fetches **tourist info from Ethereum blockchain** using Token\_ID.
2. Mobile app displays verified profile:  
   * Name
   * ID (Aadhaar or Passport)
   * Mobile Number
   * Verified Status

## **4️⃣ Real-Time Police Dashboard Update**

1. FastAPI server uses **Socket.IO** to communicate with police dashboard.
2. On successful tourist login:  
   * Backend emits a **real-time event** containing tourist info to police dashboard.
3. Police dashboard displays:  
   * Tourist Name
   * ID (Aadhaar/Passport)
   * Token\_ID
   * Login Time
   * Verified Status