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

* Tourist shows Aadhaar (Indian) or Passport (foreigner).
* Police verify the document physically.
* If correct → police generate **Token\_ID** on Ethereum blockchain (stores verified tourist info).
* Backend maps:  
   ID (Aadhaar/Passport) → Token\_ID → Mobile Number.

### **2. Tourist Login (Mobile App)**

1. Tourist enters only **Aadhaar (Indian)** or **Passport (foreigner)** in the app.
2. Backend checks DB:  
   * Does this ID exist?
   * Does it have a token?
3. If yes → Backend generates **OTP** → sends to tourist’s mobile number.
4. Tourist enters OTP in the app.
5. Backend verifies OTP.

### **3. Profile Access**

* Once OTP is verified:  
  + Backend fetches **tourist info from blockchain (via Token\_ID)**.
  + App displays verified profile:  
    - Name
    - Aadhaar/Passport
    - Mobile Number
    - Verified Status

### **4. Police Dashboard Auto-Update**

* When tourist login succeeds:  
  + FastAPI emits tourist info via **Socket.IO**.
  + Police dashboard **instantly updates**, showing:  
    - Tourist Name
    - Aadhaar/Passport
    - Token\_ID
    - Login Time
    - Verified Status