**NAL India – Property Verification Process Flow Documentation**

**📌 Objective**

To outline the end-to-end process for verifying the legal and ownership status of a property using official government sources, with minimal input from the customer and no manual document uploads.

**1. Customer Input Form**

**Description:**  
The user initiates the verification by filling a simple form with essential details:

* Survey Number
* Owner Name
* Village Name
* Google Pin (location)

**Goal:** Collect minimum data to initiate backend document search from government systems.

**2. Data Routed Based on State**

**Description:**  
Based on the inputted **state and district**, the system intelligently routes the query to the respective state-specific government portal such as:

* **Bhoomi** (Karnataka)
* **TNREGINET** (Tamil Nadu)
* **IGRS** (AP/Telangana)
* **Dishank**, **Village Maps**, etc.

**Goal:** Ensure portal-specific logic is applied for accurate document retrieval.

**3. Govt. System Integration**

**Description:**  
This module integrates and communicates with the following government platforms:

* Bhoomi for RTC & mutation records
* Dishank for land mapping
* EC & Judicial Web SG for ownership and legal status
* Google Maps & village maps for location context

**Goal:** Fetch official property records through browser simulation or API if available.

**4. Automated Document Fetching**

**Description:**  
Automated bots simulate form-filling and searches within the government portals to:

* Submit search queries
* Download Encumbrance Certificates, RTCs, Survey Maps, etc.

**Goal:** Fully automated scraping of all relevant property documents.

**5. Data Processing & Legal Validation**

**Description:**  
Fetched documents undergo:

* OCR (Optical Character Recognition) to convert scans to text
* NLP (Natural Language Processing) to extract:
  + Owner Name
  + Dispute mentions
  + Boundaries and zoning info

**Goal:** Validate document consistency and legality using AI tools.

**6. Doc Verification System**

**Description:**  
An internal system matches and cross-verifies:

* Input data vs. document data
* Ownership validation
* Mutation completion
* Zoning clearance (e.g., Green zone, CDP)

**Goal:** Ensure every property detail is consistent and legally verified.

**7. Authenticated Trust Report**

**Description:**  
A complete **Trust Report** is generated summarizing:

* Ownership status
* Verified documents
* Legal health
* AI-generated trust score
* Reviewer initials

**Goal:** Empower buyers with a single view of all verification outcomes.

**8. Recommendations & AI Suggestions**

**Description:**  
Based on the report findings:

* The platform provides next-step recommendations
* AI engine suggests risk insights and approval status (✔ Approved, ✒ Signed Off)

**Goal:** Help buyers make smart, confident decisions before proceeding.

**Benefits**

* **No manual uploads** – data is fetched automatically from reliable sources
* **AI-driven insights** – smart risk analysis and document parsing
* **Trust-first approach** – builds credibility before buyer contacts seller

