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# Business Requirement Document

**BRD Name**: **NOCPL Integration of PAN & Voter ID Validation APIs**

## V 1.2

## BRD No: 3

# BRD History:

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## 1. Introduction

**1.1 Purpose**

This document outlines the business requirements for integrating PAN and Voter ID validation APIs into the NOCPL system. The objective is to automate and streamline identity verification processes for regulatory compliance and fraud prevention.

**1.2 Scope**

* Integration of PAN validation API
* Integration of Voter ID validation API
* API response handling and logging
* User interface updates for validation status
* Compliance with government regulations

**1.3 Stakeholders**

* **Business Team:** Defines the requirements and compliance needs.
* **IT Team:** Responsible for API integration and system updates.
* **Compliance Team:** Ensures adherence to regulatory requirements.
* **End Users:** Customers who need to validate PAN and Voter ID.

## 2. Business Requirements

**2.1 Functional Requirements**

* The system should allow users to input PAN and Voter ID details.
* The system should call the respective APIs to validate the provided details.
* API responses should be logged for audit and compliance purposes.
* Validation results should be displayed in the user interface.
* If validation fails, the user should be prompted to re-enter details.
* System should support real-time validation with minimal latency.

**2.2** **Non-Functional Requirements**

* API response time should be less than 2 seconds.
* The system should handle at least 10,000 validation requests per day.
* Secure data transmission using encryption standards (e.g., HTTPS, TLS 1.2+).
* Error handling and retry mechanisms in case of API failures.
* Audit logs should be maintained for at least 6 months.

**3. API Integration Details**

**3.1 PAN Validation API**

* **API Provider:** [API Provider Name]
* **Endpoint:** [API Endpoint URL]
* **Request Parameters:** PAN Number, Name, Date of Birth
* **Response:**
  + Valid PAN: Success response with verification status
  + Invalid PAN: Error response with reason

**3.2** **Voter ID Validation API**

* **API Provider:** [API Provider Name]
* **Endpoint:** [API Endpoint URL]
* **Request Parameters:** Voter ID Number, Name, Date of Birth
* **Response:**
  + Valid Voter ID: Success response with verification status
  + Invalid Voter ID: Error response with reason

**4. User Interface Requirements**

* A form for entering PAN and Voter ID details.
* Display validation results in real time.
* Error messages for invalid inputs.
* Logs of previous validation attempts for reference.

**5. Security & Compliance**

* Adherence to GDPR and data privacy regulations.
* Secure API authentication via API keys or OAuth.
* Audit trail for all API calls.
* Masking sensitive data where necessary.

**6. Assumptions & Constraints**

* API service availability is assumed to be 99.9%.
* User must provide accurate details for successful validation.
* Integration timelines depend on API provider response times.

**7. Risks & Mitigation Strategies**

|  |  |  |
| --- | --- | --- |
| **Risk** | **Impact** | **Mitigation Strategy** |
| API Downtime | High | Implement retry mechanism & failover APIs |
| Data Privacy Breach | High | Encrypt stored and transmitted data |
| Invalid Data Entry | Medium | Implement client-side and server-side validation |