**API Specifications & Integration Contracts**

**Purpose:** To guide how third-party systems, mobile apps, or internal modules communicate securely and consistently with the core system.

**Key Technical Components:**

* **RESTful Endpoint Documentation:**
  + Base URLs, path variables, query parameters
  + Example: GET /api/v1/beneficiaries/{id}/interventions
* **Data Schemas:**
  + JSON request and response formats
  + Example payloads and field-level validations
* **Authentication & Security:**
  + OAuth 2.0 / JWT tokens
  + API key management for partners
* **Rate Limiting & Throttling:**
  + E.g., 100 requests per minute per token
  + Retry-after headers and quota exceeded messages
* **Versioning Strategy:**
  + /v1/, /v2/ URL structure
  + Deprecation timelines and notices
* **Integration Contracts:**
  + Agreements between client systems (e.g., government registry, MNO, NGO dashboards)
  + Defines data ownership, update frequency, fallback logic
  + Includes SLAs (uptime, support, escalation)