**Requirement - Currency ISO Code to Name API**

**(SOAP Project)**

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**1. Requirement ID:** REQ-CurrencyName-001

**2. Requirement Title:** Retrieve Currency Name from ISO Code using SOAP API

**3. Description:**

The system shall provide the **currency name** when a valid **ISO currency code** is passed to the Currency Name API endpoint.  
The API is hosted at:

<http://webservices.oorsprong.org/websamples.countryinfo/CountryInfoService.wso/CurrencyName>

**4. Input Parameters:**

* **Parameter Name:** sCurrencyISOCode
* **Type:** String
* **Description:** ISO currency code (e.g., USD, INR, EUR)
* **Mandatory:** Yes
* **Example:** USD → United States Dollar

**5. Request Format:**

**cURL Example**

curl "http://webservices.oorsprong.org/websamples.countryinfo/CountryInfoService.wso/CurrencyName" \

-H "Content-Type: application/x-www-form-urlencoded" \

--data-raw "sCurrencyISOCode=INR" \

--insecure

**6. Response Format:**

* **Content Type:** text/xml; charset=utf-8
* **Successful Response Example (SOAP Envelope):**

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">

<soap:Body>

<CurrencyNameResponse xmlns="http://www.oorsprong.org/websamples.countryinfo">

<CurrencyNameResult>Indian Rupee</CurrencyNameResult>

</CurrencyNameResponse>

</soap:Body>

</soap:Envelope>

* **Error/Invalid Code Example:**

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">

<soap:Body>

<CurrencyNameResponse xmlns="http://www.oorsprong.org/websamples.countryinfo">

<CurrencyNameResult/>

</CurrencyNameResponse>

</soap:Body>

</soap:Envelope>

**7. Functional Requirements:**

1. The API shall return the **correct currency name** when provided with a valid ISO code.
2. The API shall return a **blank or error response** when provided with an invalid or empty code.
3. The API shall support multiple consecutive requests without failure.
4. The API response shall conform to the **SOAP schema** defined in WSDL.

**8. Non-Functional Requirements:**

* **Performance:** Response time should be ≤ 2 seconds under normal load.
* **Availability:** Service should be available 99% of the time.
* **Compatibility:** Should be testable via SOAP UI, cURL, Postman.

**9. Constraints:**

* No authentication required.
* Only supports standard ISO currency codes.
* Runs over HTTP (not HTTPS by default).

**10. Acceptance Criteria:**

* ✅ Valid ISO code returns correct currency name (e.g., USD → United States Dollar).
* ✅ Invalid ISO code returns blank/error response.
* ✅ Empty input returns blank/error response.
* ✅ Response structure matches WSDL schema.
* ✅ Response time < 2 seconds.