**Assignment 7– Creating an API Product with Two Reverse Proxies in Apigee**

**Problem Statement:**

As an API developer at a digital platform company, your goal is to create a secure and reusable API product that provides access to two backend services through two different API proxies. This product should serve as a bundle that can be subscribed to by developers or applications via API keys.

**Objectives:**

* Create **two separate reverse proxy APIs**:
  + **Proxy A**: Returns mock product data.
  + **Proxy B**: Returns mock order information.
* Create an **API Product** in Apigee that bundles both proxies.
* Enable **API key-based access control** through the product.
* Deploy both proxies and **test access using valid and invalid API keys**.

**Technical Requirements:**

1. **API Proxy A (product-api)**
   * Base path: /product-api
   * Target URL: https://mocktarget.apigee.net
2. **API Proxy B (order-api)**
   * Base path: /order-api
   * Target URL: https://httpbin.org/
3. **API Product (retail-bundle)**
   * Includes both /product-api and /order-api
   * Access via API key (in query parameter or header)
   * Environment: eval or as per your org
4. **Developer App (Optional but encouraged)**
   * Register an app under a developer account
   * Generate API key
   * Test API key access to both proxies

**Expected Outcome:**

* Both proxies should be accessible only via a valid API key from the API product.
* Unauthorized access without a key should result in HTTP 401 errors.
* Requests using the key should return the expected mock responses