**Assignment 6– Securing an API Using an API Key in Query Parameter**

**Assignment:**

**Problem Statement:**

You are tasked with securing an API exposed through Apigee X using an API key passed via a query parameter. The goal is to ensure that only authenticated and authorized requests can access the backend service by validating the API key through Apigee policies.

**Objectives:**

* Create a reverse proxy in Apigee with a given backend target.
* **Add Quota Fault Handling as done in Assignment 4**
* Apply security using the VerifyAPIKey policy.
* Accept the API key as a query parameter (apikey=...).
* Test the secured API endpoint for both valid and invalid cases.

**Expected Outcome:**

* A successful response when a valid API key is supplied.
* An error (HTTP 401 Unauthorized) when no key or an invalid key is provided.