**Assignment 1– Creating a Reverse Proxy with Apigee (Alternate Target API)**

**Objective:**

To build and test a reverse proxy using Apigee that forwards client requests to one of several public target APIs.

**Instructions:**

**Part A: Choose Your Target API**

Select **one** of the following public APIs as your target endpoint:

| **Option** | **API Name** | **Target Endpoint** |
| --- | --- | --- |
| A | JSONPlaceholder | https://jsonplaceholder.typicode.com |
| B | ReqRes | https://reqres.in/api |
| C | Dog CEO API | https://dog.ceo/api |
| D | JokeAPI | https://v2.jokeapi.dev |
| E | Bored API | https://www.boredapi.com/api/activity |

**Part B: Create and Deploy the Reverse Proxy**

1. Log in to your **Apigee Edge or Apigee X** account.
2. Go to **Develop > API Proxies**.
3. Click **+ Proxy** and select **Reverse Proxy**.
4. Fill in the following details:
   * **Proxy Name:** student-proxy-<your-name>
   * **Project Base Path:** /myproxy
   * **Target Endpoint:** (choose from Part A)
   * **Description:** Reverse proxy to [your selected API]
5. Click **Next** > **Next** > **Build and Deploy** to the **test environment**.

**Task:** Take a screenshot of your proxy configuration summary page.

**Part C: Test the Proxy (5 Marks)**

Use **curl** or **Postman** to test the reverse proxy.

* Example:

curl https://<your-org-name>-test.apigee.net/myproxy/posts/1