Practical Exercise: Creating an API Project using the API Controller Tool

Training Objective
Learn how to create an API and publish it to the developer portal using the WSO2 API Controller Tool.

Business Scenario
After setting up the API-M, the API is created and published through the API Publisher in order to make it subscribable from the developer portal.

Business Scenario: An API developer has an Open API definition for their REST service and in need of deploying it in the API Manager to develop and manage the API without using the Publisher Portal.

High-Level Steps
- Download and initialize the API CTL tool
- Create API
- Publish API

Detailed Instructions

Download and initialize the API CTL tool

1. Navigate to the [API Management Tooling Page](#) and download the tool relevant to your platform.
2. Extract the downloaded archive of the CTL Tool to the desired location.
3. Navigate to the working directory where the executable CTL Tool resides. Execute the following command to start the CTL Tool.

   ```
   ./apictl --help
   ```

4. Point the API Controller to the instance of API Manager in which you want to deploy APIs. Execute the following command to add an environment.

```
apictl add-env -e dev
      --apim  https://localhost:9443
      --token https://localhost:8243/token
```

On successfully executing this command, you should see the following message.

Successfully added environment 'dev'

5. Login to the created environment using CTL Tool using the following command.

```
./apictl login dev -u admin -p admin -k
```

On successfully executing this command, you should see the following message.

Logged into dev environment

Create an API

1. Initialize an API project by providing a name for the project. Let's use the command below to create an API named PetstoreAPI. This creates a folder named PetstoreAPI in your current directory.

   ```
   ./apictl init PetstoreAPI --oas
   https://petstore.swagger.io/v2/swagger.json
   ```

2. Open the api.yaml file. Open and explore the PetstoreAPI folder with an IDE (e.g., VSCode). Navigate to the Meta-information directory and open the api.yaml file. Change the values of the attributes status and productionUrl as shown below and save the file.

   status: PUBLISHED

   productionUrl: http://petstore.swagger.io/v2

Publish the API

1. Push the API to WSO2 API manager.

```
./apictl import-api --file ./PetstoreAPI --environment dev -k
```

2. Browse the Publisher Portal or Developer Portal to view the API details.

Expected Outcome

The Petstore API has been created and published and can be accessed through the Store