

## **Practical**

Create a Postman collection to automate API testing and verify the behavior of your application's endpoints.

Use the libraries you believe are most convenient for the tasks at hand.

Create a student environment in Microsoft Azure that demonstrates your ability to use the platform's capabilities to solve the following questions:

### **Question 1: API Development**

Develop a RESTful API to manage stores. The API should allow for the creation, reading, updating, and deletion of stores. Use C# or Python to create the API and host it on Azure App Service. Consider a globalized, multi-company environment where each company can have multiple stores.

- Use TDD.

### **Question 2: SQL Server Database**

You have been asked to create a simple database structure in SQL Server to store information about products. Create a table called Products. Define the fields and their types. Additionally, implement a scalar function in SQL Server. The scalar function should return a JSON object and list the products. Create a procedure to insert data into a table. Consider a globalized, multi-company environment where each company can have multiple stores.

Develop a C# Azure Function microservice to manage product data in a SQL Server database. This serverless API should provide endpoints for create, read, update and delete operations on the Products table.

The application needs to be initially published in the staging environment, and subsequently, a swap should be made to the production environment.

### **Evaluation Criteria:**

- Correct functionality of the API (CRUD).
- Proper use of RESTful patterns.
- Good coding practice and project organization.
- API documentation.

Send us the Postman json collection.