Test plan

*Jonathan Richardson*

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# Introduction

This test plan aims to test the web API using postman.

## Objectives

Our objective is to make sure that the web API can work with the app.

## Team members

|  |  |
| --- | --- |
| **Name** | **Role** |
| *Qiao Li*  *Jonathan Richardson* | Test Manager  Developer, Tester |

# Features/units to be tested

* Post method
* Get and get by id method
* Put method
* Delete method

# Approach

Use the Postman to do the testing on the web API

# Test cases

## Test Case ID: 001

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 001  **Executed by**: Jonathan Richardson  **Execution Date**: 02/07/2020  **Scenario**: import the web API in postman and select the post method in the Collections  **Test Case**: Post Method in web API | | | | |
| Prerequisite | | The API program should be running successfully | | |
| Test Data | | *5,”test”,”12312312”,”02/04/1994”* | | |
| Step | Action | | Expected Result | Success? |
| 1 | Click on the body in the bar menu | | A Json query would display in the screen with the default value | **** |
| 2 | Change the data in the Json to the test data and click send | | The body output screen would display this record | **** |
| 3 | Open the SSMS to check the database in the server | | The data we just added inside the database | **** |

## Test Case ID: 002

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 002  **Executed by**: Jonathan Richardson  **Execution Date**: 02/07/2020  **Scenario**: import the web API in postman and select the Get method in the Collections after that select the get by id  **Test Case**: Get and Get by id in web API | | | | |
| Prerequisite | | The API program should be running successfully | | |
| Test Data | | *“1”* | | |
| Step | Action | | Expected Result | Success? |
| 1 | Select the normal get in the collection | | The web API link would display in the text box | **** |
| 2 | Click on the send button | | All the data would be display in the body | **** |
| 3 | Open SSMS and check the data with postman | | All data match perfectly | **** |
| 4 | Click on the get by id method | | The web API link would display in the text box | **** |
| 5 | Change the id to the test data and click the send button | | The data *1,”test”,”12312312”,”02/04/1994”” should be displayed.* | **** |

## Test Case ID: 003

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 003  **Executed by**: Jonathan Richardson  **Execution Date**: 02/07/2020  **Scenario**: import the web API in postman and select the PUT method in the Collections  **Test Case**: Put method in API | | | | |
| Prerequisite | | The API program should be running successfully | | |
| Test Data | | *1,”Test”,”test”,”test”* | | |
| Step | Action | | Expected Result | Success? |
| 1 | Click on the put method in the collection | | The link would be display in the middle of the screen | **** |
| 2 | Change the”: id” to 45 and click send | | Display the contact | **** |
| 3 | Click on the body | | Display the data in JSON format | **** |
| 4 | Change the data inside to the test data and click the send, then click the get to check the data | | The contact with id 1 successfully updates as the test data. | **** |
| 5 | Open the SSMS to check if the data also change in the server-side database | | Contact successfully updated | **** |

## Test Case ID: 004

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 004  **Executed by**: Jonathan Richardson  **Execution Date**: 02/07/2020  **Scenario**: import the web API in postman and select the DEL method in the Collections  **Test Case**: Delete method in web API | | | | |
| Prerequisite | | The API program should be running successfully | | |
| Test Data | | *No test data required for this test case* | | |
| Step | Action | | Expected Result | Success? |
| 1 | Click on the DEL method in the collection | | The link would be display in the link text box | **** |
| 2 | Change the “: id” to 45 and click the send button | | In the body the contact with id 45 would be displayed | **** |
| 3 | Click the get method and get all contact then click the send | | There is no more contact with id 45 inside of this database | **** |
| 4 | Open SSMS and check the data inside of the server-side database | | There is no contact with id 45 in the database. | **** |

# Schedule

## Test Schedule

|  |  |  |
| --- | --- | --- |
| **Task** | **Start** | **Finish** |
| Working on the test base on this plan | 02/07/2020 | 02/07/2020 |

## Deliverables

|  |  |
| --- | --- |
| **Task** | **Date** |
| Test Plan | 02/07/2020 |
| Test Results | 02/07/2020 |
| Test Report | 02/07/2020 |