Test plan

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# Introduction

This plan revolves around the testing if API functionality, ensuring that all coded functions are working as per the requirements.

## Objectives

The objective is to ensure the quality of the API making sure that no errors arise which may affect the functionality of the application and as well as the quality of data.

## Team members

|  |  |
| --- | --- |
| **Name** | **Role** |
| *Qiao Li*  *Tim Owens* | Test Manager  Developer, Tester |

# Features/units to be tested

GET: Get all contacts

GET: Get Individual contact by id

PUT: Edit contact

POST: Add contact

DELETE: Delete contact

# Approach

The approach will be with the utilization of PostMan, this will allow the input of data into the API for the given actions to occur dependent on what function which PostMan received such as the URL for the get all request.

# Test cases

## Test Case ID: 001

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 001  **Executed by**: Tim Owens  **Execution Date**: 4/12/2021  **Scenario**: Get contacts from PostMan  **Test Case**: Get all contacts from server-side db | | | | |
| Prerequisite | |  | | |
| Test Data | | *List of contacts* | | |
| Step | Action | | Expected Result | Success? |
| 1 | Select GET | | Get is set | **** |
| 2 | Insert API URL http://192.168.0.2:5000/api/Contacts and press send | | Display list of contacts. | **** |
| 3 |  | |  |  |
| 4 |  | |  |  |

## Test Case ID: 002

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 002  **Executed by**: Tim Owens  **Execution Date**: 4/12/2021  **Scenario**: Get single contact from PostMan  **Test Case**: Get single contact from server-side db | | | | |
| Prerequisite | |  | | |
| Test Data | | *Id = 2* | | |
| Step | Action | | Expected Result | Success? |
| 1 | Select GET | | Get is set | **** |
| 2 | Insert API URL http://192.168.0.2:5000/api/Contacts/2 and press send | | Display single contact. | **** |
| 3 |  | |  |  |
| 4 |  | |  |  |

## Test Case ID: 003

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 003  **Executed by**: Tim Owens  **Execution Date**: 4/12/2021  **Scenario**: Edit contact from PostMan  **Test Case**: Edit contact from server-side db | | | | |
| Prerequisite | |  | | |
| Test Data | | *Id = 2, contact* | | |
| Step | Action | | Expected Result | Success? |
| 1 | Select PUT | | PUT is set | **** |
| 2 | Insert API URL http://192.168.0.2:5000/api/Contacts/2 and press send | | Display single contact. | **** |
| 3 | Select body tab, raw and under the dropdown box select JSON | | Allows input of JSON objects | **** |
| 4 | Paste the object to edit. | | Object should be displayed in JSON format | **** |
| 5 | Edit name and select Send | | Name should be altered | **** |
| 6 | Edit all parameters and select Send | | All properties of the object should be altered | **** |

## Test Case ID: 004

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 004  **Executed by**: Tim Owens  **Execution Date**: 4/12/2021  **Scenario**: Create contact from PostMan  **Test Case**: Create contact in server-side db | | | | |
| Prerequisite | |  | | |
| Test Data | | *contact* | | |
| Step | Action | | Expected Result | Success? |
| 1 | Select POST | | POST is set | **** |
| 2 | Insert API URL <http://192.168.0.2:5000/api/Contacts> and Select body tab, raw and under the dropdown box select JSON | | Allows input of JSON objects | **** |
| 3 | Enter all available properties and press send | | Contact should be created in database | **** |
| 4 |  | |  |  |

## Test Case ID: 002

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID**: 002  **Executed by**: Tim Owens  **Execution Date**: 4/12/2021  **Scenario**: Delete contact from PostMan  **Test Case**: Delete contact from server-side db | | | | |
| Prerequisite | |  | | |
| Test Data | | *Id = 2* | | |
| Step | Action | | Expected Result | Success? |
| 1 | Select GET | | Get is set | **** |
| 2 | Insert API URL http://192.168.0.2:5000/api/Contacts/2 and press send | | Delete single contact. | **** |
| 3 |  | |  |  |
| 4 |  | |  |  |

# Schedule

## Test Schedule

|  |  |  |
| --- | --- | --- |
| **Task** | **Start** | **Finish** |
| Test Get all Contacts | 4/12/2021 | 4/12/2021 |
| Test Get single contact | 4/12/2021 | 4/12/2021 |
| Test Edit Contact | 4/12/2021 | 4/12/2021 |
| Test Delete Contact | 4/12/2021 | 4/12/2021 |
| Test Post Contact | 4/12/2021 | 4/12/2021 |

## Deliverables

|  |  |
| --- | --- |
| **Task** | **Date** |
| Test Plan | 4/12/2021 |
| Test Results | 4/12/2021 |
| Test Report | 4/12/2021 |