How to Use Our REST APIs

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# Overview

API Name : CalculateGeoDistance

Purpose: This API will calculate the distance between two UK Postcode

Base URL: <https://localhost:32769/>

Authentication Requirements: Bearer Token is required in the ‘Authentication’ header

# Online Documentation

Swagger documentation can be found in <https://localhost:32769/swagger/index.html>

# Endpoint information

## Register

|  |
| --- |
| *For exercise purposes, this API is using in Memory Database, so you need to register the user again if you restart the application* |

URL: /register

Method: POST

Description: register a user for the authentication requirements

### Request

Parameters:

“email” – the user email

“password” – the password. Note that all the normal password strength rule (password length, non-alphanumeric character etc) will apply.

Headers: n/a

Example Request:

|  |
| --- |
| {  "email": "khairil2@email.com",  "password": "Password123#"  } |

### Response

Status code: 200 (OK), 400 (Bad Request)

Example Response:

|  |
| --- |
| {  "type": "string",  "title": "string",  "status": 0,  "detail": "string",  "instance": "string",  "errors": {  "additionalProp1": [  "string"  ],  "additionalProp2": [  "string"  ],  "additionalProp3": [  "string"  ]  },  "additionalProp1": "string",  "additionalProp2": "string",  "additionalProp3": "string"  } |

## Login

|  |
| --- |
| *For exercise purposes, this API is using in Memory Database, so you need to register the user again if you restart the application* |

URL: /login

Method: POST

Description: Login user for the authentication requirements

### Request

Parameters:

“email” – the user email

“password” – the password. Note that all the normal password strength rule (password length, non-alphanumeric character etc) will apply.

Headers: n/a

Example Request:

|  |
| --- |
| {  "email": "khairil2@email.com",  "password": "Password123#"  } |

### Response

Status code: 200 (OK), 400 (Bad Request)

Example Response:

|  |
| --- |
| {  "tokenType": "Bearer",  "accessToken": "accessToken1",  "expiresIn": 3600,  "refreshToken": "refreshtoken1"  } |

## CalculateDistance

URL: /api/PostCode/CalculateDistance

Method: POST

Description: Login user for the authentication requirements

### Request

Parameters:

“email” – the user email

“password” – the password. Note that all the normal password strength rule (password length, non-alphanumeric character etc) will apply.

Headers: n/a

Example Request:

|  |
| --- |
| {  "email": "khairil2@email.com",  "password": "Password123#"  } |

### Response

Status code: 200 (OK), 400 (Bad Request), 401 (Unauthorized)

Example Response:

|  |
| --- |
| {  "postCodeA": {  "id": 141,  "postcode": "AB21 9EY",  "latitude": "57.180984",  "longitude": "-2.184717"  },  "postCodeB": {  "id": 304,  "postcode": "AB21 7AY",  "latitude": "57.205139",  "longitude": "-2.190747"  },  "distance": 2.710240087594189,  "unitOfMeasureMent": "KM"  } |

## Testing the API using Postman

A screenshot of a computer

AI-generated content may be incorrect.

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