API Documentation

TMS\_22 Route Creation API

Aim: To Route creation API

Purpose: The purpose of a Route Creation API is to facilitate the creation and management of routes, typically for applications involving logistics, transportation, delivery services, or mapping services.

1.First API end point: Here we access the first urls.py that is used for route details

Request:

|  |  |
| --- | --- |
| **Method** | **URL** |
| **Get** | api/routes/ |

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | {          "id": 1,          "route\_id": "RO20240727152936ZBZYE",          "source\_latitude": 25.45678,          "source\_longitude": 17.789,          "destination\_latitude": 24.34567,          "destination\_longitude": 17.3456,          "distance": 24.0,          "duration": 16.0,          "status": "active"      }, |

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 405  404 | **{error: Method not allow}**  {error:Not found.} |

2.second API end point: Here we access the first urls.py that is used for route details

Request:

|  |  |
| --- | --- |
| **Method** | **URL** |
| **Get** | Api/routes/3/ |

## Response:

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | {      "id": 3,      "route\_id": "RO20240727152953LRMAL",      "source\_latitude": 25.45678,      "source\_longitude": 17.789,      "destination\_latitude": 24.34567,      "destination\_longitude": 17.3456,      "distance": 24.0,      "duration": 16.0,      "status": "active"  } |

3.Third API end point: Here we access the first urls.py that is used for route details

Request:

|  |  |
| --- | --- |
| **Method** | **URL** |
| **Post** | Api/routes/ |

## Response:

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | {      "source\_latitude": [          "This field is required."      ],      "source\_longitude": [          "This field is required."      ],      "destination\_latitude": [          "This field is required."      ],      "destination\_longitude": [          "This field is required."      ],      "distance": [          "This field is required."      ],      "duration": [          "This field is required."      ]  } |

4.Fourth end point: Here we access the first urls.py that is used for route details

Request:

|  |  |
| --- | --- |
| **Method** | **URL** |
| **Post** | Api/routes/3/ |

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 |  |

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 500  404 | **{error: internal server error}**  {error:Not found.} |

Conclusion:

The Route Creation API is a vital component for applications requiring route planning, routes based on specific criteria such as source, destination, latitude, and longitude, it provides, the Route Creation API offers flexibility, real-time updates, and valuable insights. Its integration can lead to better decision-making, cost savings, and improved service delivery, making it an essential feature for modern applications relying on precise.