API DOCUMENTATION

TRIP CREATION

Task Number : TMS-23

**Aim: To create API for Trip creation for employee**

**Purpose: Scheduling and Planning: To plan and schedule trips efficiently, ensuring that all trips are accounted for and managed within the system.**

** Tracking and Monitoring: To monitor the progress of trips in real-time, allowing for updates and adjustments as necessary. This includes tracking location, duration, and status.**

** Resource Management: To allocate resources such as vehicles and drivers effectively, ensuring optimal utilization and minimizing idle time.**

**1.First API end point: Here we access the first url in app urls.py that is used for trip creation.**

**Request**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | api/trips/ |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **{**  **"id": 4,**  **"trip\_id": "TR20240730215938KYFM",**  **"start\_time": "2024-07-31T06:00:00Z",**  **"end\_time": "2024-07-31T18:00:00Z",**  **"status": "scheduled",**  **"start\_latitude": 32.1,**  **"start\_longitude": 33.1,**  **"end\_latitude": 34.2,**  **"end\_longitude": 34.4,**  **"route\_id": 1,**  **"vehicle\_id": 1,**  **"driver\_id": 1**  **}** |
| 405 | {"error":"detail": "Method \"PUT\" not allowed."} |
| 400 | {"error":"Bad Request."} |
| 500 | {"error":"Internal server"} |

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | api/trips/ |

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **{**  **"start\_time": [**  **"This field is required."**  **],**  **"end\_time": [**  **"This field is required."**  **],**  **"route\_id": [**  **"This field is required."**  **],**  **"vehicle\_id": [**  **"This field is required."**  **],**  **"driver\_id": [**  **"This field is required."**  **]**  **}** |

**2.second API end point: Here we access the second url in app urls.py here we provide the id also that is used to get the trip details.**

**Request**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | api/trips/<int:pk>/  api/trips/4/ |

**<int:pk> means give id the value that is 1 or 2 like that**

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **{**  **"id": 4,**  **"trip\_id": "TR20240730215938KYFM",**  **"start\_time": "2024-07-31T06:00:00Z",**  **"end\_time": "2024-07-31T18:00:00Z",**  **"status": "scheduled",**  **"start\_latitude": 32.1,**  **"start\_longitude": 33.1,**  **"end\_latitude": 34.2,**  **"end\_longitude": 34.4,**  **"route\_id": 1,**  **"vehicle\_id": 1,**  **"driver\_id": 1**  **}** |
| 405 | **{"error":"detail": "Method \"PUT\" not allowed."}** |
| 404 | **{"error":"detail": "Not found"}** |

|  |  |
| --- | --- |
| **Method** | **URL** |
| **PUT** | api/trips/<int:pk>/  api/trips/3/ |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **{**  **"start\_time": [**  **"This field is required."**  **],**  **"end\_time": [**  **"This field is required."**  **],**  **"route\_id": [**  **"This field is required."**  **],**  **"vehicle\_id": [**  **"This field is required."**  **],**  **"driver\_id": [**  **"This field is required."**  **]**  **}** |
| 400 | **{"error":"detail": "Bad Request"}** |

## Deletions

|  |  |
| --- | --- |
| **Method** | **URL** |
| **DELETE** | api/trips/<int:pk>/  api/trips/3/ |

**<int:pk> means when we give the id value it deletes the which trip contains that id**

**Conclusion:**

**Trip creation involves accurately capturing essential details, validating data, integrating with other systems, and ensuring user-friendly**

**processes to enhance operational efficiency and data management.**