API DOCUMENTATION

Apply filters to reports

Task Number: TMS-31

Aim: To create API for Report Generation

Purpose: The purpose of report generation is to systematically compile and analyze data to provide insights, track performance, and support informed decision-making.

and get the bill data like weekly, monthly,yearly it contains clear information

1.First API end point: Here we access the first url in app urls.py that is used to generate the reports.

**Request**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | api/generate-report/ |

|  |  |
| --- | --- |
| **Status** | **Response** |
| 405 | { "error": “Method not allowed”} |
| 400 | {“error” : “Invalid report\_type”} |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| POST | Body  Raw  json | String format |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| POST | “start\_date”  “end\_date”  “report\_type”  “company” | “2024-01-01”  “2024-12-31”  “monthly”  “wipro” |

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | [  {  "month\_start": "2024-01-01",  "month\_end": "2024-01-31",  "total\_amount": 0,  "total\_trips": 0  },  {  "month\_start": "2024-02-01",  "month\_end": "2024-02-29",  "total\_amount": 40.0,  "total\_trips": 1  },  {  "month\_start": "2024-03-01",  "month\_end": "2024-03-31",  "total\_amount": 0,  "total\_trips": 0  }  ]  Continue upto December month |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| POST | “start\_date”  “end\_date”  “report\_type”  “company” | “2024-01-01”  “2024-02-01”  “weekly”  “wipro” |

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | [  {  "week\_start": "2024-01-01",  "week\_end": "2024-01-07",  "total\_amount": 0,  "total\_trips": 0  },  {  "week\_start": "2024-01-08",  "week\_end": "2024-01-14",  "total\_amount": 0,  "total\_trips": 0  },  {  "week\_start": "2024-01-15",  "week\_end": "2024-01-21",  "total\_amount": 0,  "total\_trips": 0  },  {  "week\_start": "2024-01-22",  "week\_end": "2024-01-28",  "total\_amount": 0,  "total\_trips": 0  },  {  "week\_start": "2024-01-29",  "week\_end": "2024-02-04",  "total\_amount": 0,  "total\_trips": 0  }  ] |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| POST | “start\_date”  “end\_date”  “report\_type”  “company” | “2024-01-01”  “2024-12-01”  “yearly”  “wipro” |

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | [  {  "year\_start": "2024-01-01",  "year\_end": "2024-12-31",  "total\_amount": 340.0,  "total\_trips": 2  }  ] |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| POST | “start\_date”  “end\_date”  “report\_type”  “company” | “2024-01-01”  “2024-12-01”  “daily”  “wipro” |

|  |  |
| --- | --- |
| **Status** | **Response** |
| 405 | { "error": “invalid report\_type”} |

Conclusion:

Report generation provides a structured summary of data to weekly,monthly,yearly, monitor performance, and guide decision-making.