**Controller Endpoints**

**1. Get All Transactions**

* **URL: /allTransaction**
* **Method: GET**
* **Description: Shows you a list of all the transactions.**
* **Response: A list of transactions.**

**Example:**

**json**

**[**

**{**

**"tranId": "1",**

**"custId": "1",**

**"amount": 150,**

**"mnth": "jan",**

**"points": 0**

**},**

**...**

**]**

**2. Calculate Reward Points**

* **URL: /calcRewards**
* **Method: PATCH**
* **Description: Calculates and updates reward points for all transactions.**
* **Response: A list of updated transactions with reward points.**

**Example:**

**json**

**[**

**{**

**"tranId": "1",**

**"custId": "1",**

**"amount": 150,**

**"mnth": "jan",**

**"points": 10**

**},**

**...**

**]**

**3. Get Transactions by Customer ID and Month**

* **URL: /transactions/{customerId}/{month}**
* **Method: GET**
* **Description: Shows you a list of transactions for a specific customer and month.**
* **Path Variables:**
  + **customerId: The ID of the customer.**
  + **month: The month for the transactions.**
* **Response: A list of transactions for the specified customer and month.**

**Example:**

**json**

**[**

**{**

**"tranId": "1",**

**"custId": "1",**

**"amount": 170,**

**"mnth": "jan",**

**"points": 190**

**},**

**...**

**]**

**4. Get Transactions by Customer ID**

* **URL: /transactions/{customerId}**
* **Method: GET**
* **Description: Shows you a list of transactions for a specific customer.**
* **Path Variables:**
  + **customerId: The ID of the customer.**
* **Response: A list of transactions for the specified customer.**

**Example:**

**json**

**[**

**{**

**"tranId": "1",**

**"custId": "1",**

**"amount": 150,**

**"mnth": "jan",**

**"points": 0**

**},**

**...**

**]**

**5. Get Total Rewards**

* **URL: /total**
* **Method: GET**
* **Description: Shows the total rewards for all customers across all months.**
* **Response: A list of total rewards for each customer.**

**Example:**

**json**

**[**

**{**

**"custId": "1",**

**"monthlyRewards": {**

**"feb": 3668,**

**"jan": 3302,**

**"mar": 5028**

**},**

**"totalRewards": 16998**

**},**

**...**

**]**

**6. Get Total Rewards by Customer ID**

* **URL: /total/{customerId}**
* **Method: GET**
* **Description: Shows the total rewards for a specific customer.**
* **Path Variables:**
  + **customerId: The ID of the customer.**
* **Response: The total rewards for the specified customer.**

**Example:**

**json**

**{**

**"custId": "1",**

**"monthlyRewards": {**

**"feb": 3668,**

**"jan": 3302,**

**"mar": 5028**

**},**

**"totalRewards": 16998**

**}**