Test cases for reward calculation behaviour.

1. When customer does not exist:

* URI: api/reward/customer/123e4567-e89b-12d3-a456-426614174010
* Output:

Invalid Id. Customer not found

1. When customer has only transaction amount < = 50

* URI: api/reward/customer/123e4567-e89b-12d3-a456-426614174004
* Output:

{

    "customer": {

        "id": "123e4567-e89b-12d3-a456-426614174004",

        "name": "Carol White",

        "email": "carol.white@example.com",

        "phoneNumber": "555-5678"

    },

    "totalPoints": 0,

    "rewards": [

        {

            "transactionId": "30a5ad9e-e824-49ca-8df8-0e370febb6dd",

            "transactionAmount": 10.00,

            "points": 0,

            "awardedDate": "2024-08-08T09:37:21.817016"

        }

    ]

}

1. When customer has transaction amount > 50 but <=100

* URI: api/reward/customer/123e4567-e89b-12d3-a456-426614174005
* Output:

{

    "customer": {

        "id": "123e4567-e89b-12d3-a456-426614174005",

        "name": "David Black",

        "email": "david.black@example.com",

        "phoneNumber": "555-9876"

    },

    "totalPoints": 30,

    "rewards": [

        {

            "transactionId": "e44820f2-b980-4938-8ad1-3418a3354484",

            "transactionAmount": 80.00,

            "points": 30,

            "awardedDate": "2024-08-08T09:39:29.129696"

        }

    ]

}

1. When customer has transaction amount > 100

* URI: api/reward/customer/123e4567-e89b-12d3-a456-426614174006
* Output:

{

    "customer": {

        "id": "123e4567-e89b-12d3-a456-426614174006",

        "name": "Eve Brown",

        "email": "eve.brown@example.com",

        "phoneNumber": "555-5432"

    },

    "totalPoints": 150,

    "rewards": [

        {

            "transactionId": "8ae03e0f-ec6c-4e7b-bdc0-4317d699fb28",

            "transactionAmount": 150.00,

            "points": 150,

            "awardedDate": "2024-08-08T09:50:46.660066"

        }

    ]

}

1. When customer has transactions of all kind of amounts

* URI: api/reward/customer/123e4567-e89b-12d3-a456-426614174006
* Output:

{

    "customer": {

        "id": "123e4567-e89b-12d3-a456-426614174006",

        "name": "Eve Brown",

        "email": "eve.brown@example.com",

        "phoneNumber": "555-5432"

    },

    "totalPoints": 170,

    "rewards": [

        {

            "transactionId": "8ae03e0f-ec6c-4e7b-bdc0-4317d699fb28",

            "transactionAmount": 150.00,

            "points": 150,

            "awardedDate": "2024-08-08T09:50:46.660066"

        },

        {

            "transactionId": "579d55ec-eab7-49a0-bcf6-f9759f9585c8",

            "transactionAmount": 30.00,

            "points": 0,

            "awardedDate": "2024-08-08T09:52:41.714118"

        },

        {

            "transactionId": "fc842c14-f201-47f8-b27d-a1455cccdaad",

            "transactionAmount": 70.00,

            "points": 20,

            "awardedDate": "2024-08-08T09:52:49.74069"

        }

    ]

}

1. When months parameter is specified.

* URI: api/reward/customer/123e4567-e89b-12d3-a456-426614174006?months=6
* Output:

{

    "customer": {

        "id": "123e4567-e89b-12d3-a456-426614174006",

        "name": "Eve Brown",

        "email": "eve.brown@example.com",

        "phoneNumber": "555-5432"

    },

    "totalPoints": 280,

    "rewards": [

        {

            "transactionId": "8ae03e0f-ec6c-4e7b-bdc0-4317d699fb28",

            "transactionAmount": 150.00,

            "points": 150,

            "awardedDate": "2024-08-08T09:50:46.660066"

        },

        {

            "transactionId": "579d55ec-eab7-49a0-bcf6-f9759f9585c8",

            "transactionAmount": 30.00,

            "points": 0,

            "awardedDate": "2024-08-08T09:52:41.714118"

        },

        {

            "transactionId": "fc842c14-f201-47f8-b27d-a1455cccdaad",

            "transactionAmount": 70.00,

            "points": 20,

            "awardedDate": "2024-08-08T09:52:49.74069"

        },

        {

            "transactionId": "00ed8b30-1f0c-4579-8088-dd97b7802f93",

            "transactionAmount": 130.00,

            "points": 110,

            "awardedDate": "2024-04-10T10:00:00"

        }

    ]

}

1. When get rewards for all customers

* URI: api/reward?months=1
* Output:

[

    {

        "customer": {

            "id": "123e4567-e89b-12d3-a456-426614174000",

            "name": "John Doe",

            "email": "john.doe@example.com",

            "phoneNumber": "555-1234"

        },

        "totalPoints": 780,

        "rewards": [

            {

                "transactionId": "0c3f963f-1169-4980-9034-fdca7de73ee0",

                "transactionAmount": 150.00,

                "points": 150,

                "awardedDate": "2024-08-01T16:31:35.469614"

            },

            {

                "transactionId": "a6464c93-d665-4701-831b-d86bf57c1849",

                "transactionAmount": 120.00,

                "points": 90,

                "awardedDate": "2024-08-01T16:35:22.170311"

            },

            {

                "transactionId": "c66a127d-3e13-4b67-8574-b166f1aa327c",

                "transactionAmount": 120.50,

                "points": 90,

                "awardedDate": "2024-08-01T20:20:14.970539"

            },

            {

                "transactionId": "592d1ba4-ccde-4533-99fc-f86b466fbe0c",

                "transactionAmount": 12.00,

                "points": 0,

                "awardedDate": "2024-08-02T13:00:46.099846"

            },

            {

                "transactionId": "8d4bc984-ecfd-42c1-bf38-cfe0b3a99426",

                "transactionAmount": 150.00,

                "points": 150,

                "awardedDate": "2024-08-03T10:00:00"

            },

            {

                "transactionId": "3096c42f-7a86-40d5-af1c-3f5d71aa200e",

                "transactionAmount": 150.00,

                "points": 150,

                "awardedDate": "2024-08-03T10:00:00"

            },

            {

                "transactionId": "7836a87a-7144-430b-8fac-dc0e2a023734",

                "transactionAmount": 150.00,

                "points": 150,

                "awardedDate": "2024-08-03T10:00:00"

            }

        ]

    },

    {

        "customer": {

            "id": "123e4567-e89b-12d3-a456-426614174001",

            "name": "Jane Smith",

            "email": "jane.smith@example.com",

            "phoneNumber": "555-5678"

        },

        "totalPoints": 382,

        "rewards": [

            {

                "transactionId": "d44b2f18-6e5f-4815-9892-909ea9033ecd",

                "transactionAmount": 120.00,

                "points": 90,

                "awardedDate": "2024-08-03T08:49:41.859753"

            },

            {

                "transactionId": "60b4d9c9-7cb2-4820-8314-dda773fc2c93",

                "transactionAmount": 170.00,

                "points": 190,

                "awardedDate": "2024-08-05T15:29:36.533237"

            },

            {

                "transactionId": "5e2bf6c9-2ae0-4b2d-b620-76c7be4f3a26",

                "transactionAmount": 100.00,

                "points": 50,

                "awardedDate": "2024-08-05T15:31:12.742221"

            },

            {

                "transactionId": "295df37c-9176-4eb3-b6eb-da90a9e85701",

                "transactionAmount": 101.00,

                "points": 52,

                "awardedDate": "2024-08-07T14:09:25.8593"

            }

        ]

    },

    {

        "customer": {

            "id": "123e4567-e89b-12d3-a456-426614174002",

            "name": "Alice Johnson",

            "email": "alice.johnson@example.com",

            "phoneNumber": "555-8765"

        },

        "totalPoints": 280,

        "rewards": [

            {

                "transactionId": "de5cb005-d7e4-4caf-a97f-639533061e73",

                "transactionAmount": 140.00,

                "points": 130,

                "awardedDate": "2024-07-12T10:00:00"

            },

            {

                "transactionId": "21bb243f-0e94-441c-9b5f-c026426644d5",

                "transactionAmount": 150.00,

                "points": 150,

                "awardedDate": "2024-08-03T10:00:00"

            }

        ]

    },

    {

        "customer": {

            "id": "123e4567-e89b-12d3-a456-426614174003",

            "name": "Bob Smith",

            "email": "bob.smith@example.com",

            "phoneNumber": "555-1234"

        },

        "totalPoints": 0,

        "rewards": []

    },

    {

        "customer": {

            "id": "123e4567-e89b-12d3-a456-426614174004",

            "name": "Carol White",

            "email": "carol.white@example.com",

            "phoneNumber": "555-5678"

        },

        "totalPoints": 0,

        "rewards": [

            {

                "transactionId": "30a5ad9e-e824-49ca-8df8-0e370febb6dd",

                "transactionAmount": 10.00,

                "points": 0,

                "awardedDate": "2024-08-08T09:37:21.817016"

            }

        ]

    },

    {

        "customer": {

            "id": "123e4567-e89b-12d3-a456-426614174005",

            "name": "David Black",

            "email": "david.black@example.com",

            "phoneNumber": "555-9876"

        },

        "totalPoints": 30,

        "rewards": [

            {

                "transactionId": "e44820f2-b980-4938-8ad1-3418a3354484",

                "transactionAmount": 80.00,

                "points": 30,

                "awardedDate": "2024-08-08T09:39:29.129696"

            }

        ]

    },

    {

        "customer": {

            "id": "123e4567-e89b-12d3-a456-426614174006",

            "name": "Eve Brown",

            "email": "eve.brown@example.com",

            "phoneNumber": "555-5432"

        },

        "totalPoints": 170,

        "rewards": [

            {

                "transactionId": "8ae03e0f-ec6c-4e7b-bdc0-4317d699fb28",

                "transactionAmount": 150.00,

                "points": 150,

                "awardedDate": "2024-08-08T09:50:46.660066"

            },

            {

                "transactionId": "579d55ec-eab7-49a0-bcf6-f9759f9585c8",

                "transactionAmount": 30.00,

                "points": 0,

                "awardedDate": "2024-08-08T09:52:41.714118"

            },

            {

                "transactionId": "fc842c14-f201-47f8-b27d-a1455cccdaad",

                "transactionAmount": 70.00,

                "points": 20,

                "awardedDate": "2024-08-08T09:52:49.74069"

            }

        ]

    },

    {

        "customer": {

            "id": "123e4567-e89b-12d3-a456-426614174007",

            "name": "Frank Green",

            "email": "frank.green@example.com",

            "phoneNumber": "555-6789"

        },

        "totalPoints": 0,

        "rewards": []

    },

    {

        "customer": {

            "id": "123e4567-e89b-12d3-a456-426614174008",

            "name": "Grace Yellow",

            "email": "grace.yellow@example.com",

            "phoneNumber": "555-4321"

        },

        "totalPoints": 0,

        "rewards": []

    }

]