Technologies used for this project: Spring Boot, H2, Maven

Please follow the below steps

1. Do maven clean install
2. Start the application
3. Type below url in browser, this will calculate the reward points and create dataset information in H2 DB

<http://localhost:8080/createDataSet>

Sample data:

Rewards r1 = **new** Rewards();

r1.setCustomerName("cust1");

r1.setPurchaseAmount(120);

r1.setCreatedDate(sdf.parse("10/06/2019"));

Rewards r2 = **new** Rewards();

r2.setCustomerName("cust1");

r2.setPurchaseAmount(80);

r2.setCreatedDate(sdf.parse("12/07/2019"));

Rewards r3 = **new** Rewards();

r3.setCustomerName("cust1");

r3.setPurchaseAmount(120);

r3.setCreatedDate(sdf.parse("10/08/2019"));

Rewards r4 = **new** Rewards();

r4.setCustomerName("cust1");

r4.setPurchaseAmount(90);

r4.setCreatedDate(sdf.parse("11/08/2019"));

// 2nd Customer

Rewards c1 = **new** Rewards();

c1.setCustomerName("cust2");

c1.setPurchaseAmount(120);

c1.setCreatedDate(sdf.parse("13/07/2019"));

Rewards c2 = **new** Rewards();

c2.setCustomerName("cust2");

c2.setPurchaseAmount(110);

c2.setCreatedDate(sdf.parse("12/08/2019"));

1. Type below url to get the customer total earning points and monthly wise total earning points

<http://localhost:8080/getCustomerRewardPoints?customerName=cust1>

Sample Output:

{"totalPoints":250,"rewards":[{"month":6,"monthPoints":90},{"month":7,"monthPoints":30},{"month":8,"monthPoints":130}]}