Application Rest API document

**Application having below three Rest endpoints:**

1. Get All Transactions:-

http://<server>:<port>/OpenBankTransactionServices/allTransactions

Sample URL

<http://localhost:8080/OpenBankTransactionServices/allTransactions>

1. Get All Transactions for TransType:-

http://<server>:<port>/OpenBankTransactionServices/allTransactionsforTransType/{transType}

Sample URL

<http://localhost:8080/OpenBankTransactionServices/allTransactionsforTransType/sandbox-payment>

1. Get Total Amount for TransType:-

<http://<server>:<port>/OpenBankTransactionServices/totalAmountforTransType/>{transType}

sample URL:

<http://localhost:8080/OpenBankTransactionServices/totalAmountforTransType/sandbox-payment>

**Data Source :-**

OpenBank sandbox public rest end point - <https://apisandbox.openbankproject.com/obp/v1.2.1/banks/rbs/accounts/savings-kids-john/public/transactions>

**For this assignment I have used following tools and technologies.**

* Java 1.8
* Spring MVC 4.2.1 RELEASE
* Tomcat 7
* Maven 3
* Swagger2
* Lombok 1.0.0
* JSON
* MockMVC, Junit, Mockito

**Development Features: -**

● Used basic **Spring security** to secure the application with username and password for this assignment.

● Used **Spring DI** features to configure the beans using annotations.

● Provided unit testing functionality using **Mockmvc**, **Junit** & **Mockito**.

● **Lombok** has been used for logging using **SLF4J**. Also used Lombok annotations for POJO.

● **Swagger2** has been used for Rest End Points visual representation and testing.

● Used **Java 8 Stream** API and **Lambda expression** feature.

● **Rest Template** has been used to consume the open bank sandbox public rest end point, to get the transactions.

● **Controller Advice** has been used for centralized custom exception handling.

**Build, Deployment & Sanity testing Steps: -**

● Get the code from my public GIT hub repository.

<https://github.com/rakeshkumarchoudhary/OpenBankTransactionServices.git>

● To get the war do “mvn clean install”.

● Deploy the generated war to tomacat7/8 container.

● Start the tomcat server.

● Browse the URL **“**http://<server>:<port>/OpenBankTransactionServices/allTransactions**”**.

● Provide the user as ”rkc” and password as “rkc123”

● All transactions will be displayed.