# TestRail integrated with Newman

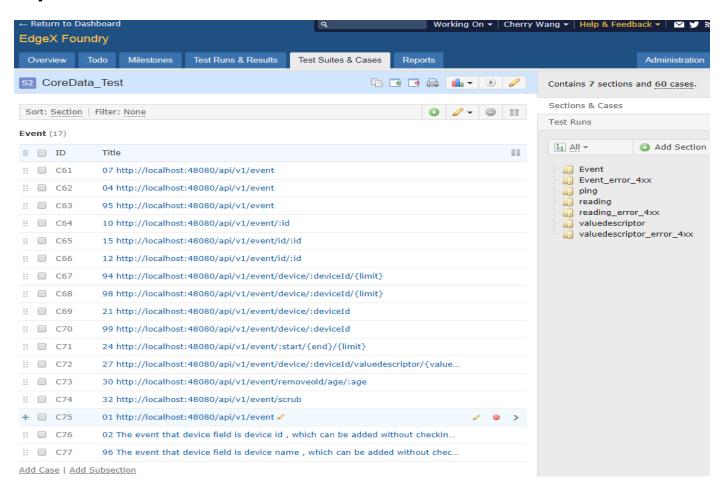
No Jenkins

### Agenda

- Create testcases on TestRail
- Configure TestRail related setting on Postman container
- Modify Blackbox Test testcases are matched with TestRail
- TestRail Advantages and disadvantages
- TestRail Server

#### Create testcases on TestRail

Import BlackboxTest testcases to TestRail



#### Postman container configuration

- Modify docker-compose file
  - Add environment variable for TestRail

- Modify docker-compose command in collection file
  - Add command to install newman-reporter-testrail

# Modify Blackbox Test Script

Add Prefix on all test assertions

```
"item": [
        "name": "07 http://localhost:48080/api/v1/event",
                "listen": "test",
                "script": {
                    "type": "text/javascript",
                    "exec": [
                        " * Version: Alpha",
                        " * @Author: Tata Elxsi",
                        "//Test Case for status : 200",
                        "tests[ "C61 Status code is 200\"] = responseCode.code === 200;",
                        "//Test response time",
                        "tests[\"C61 Response time is less than \"+data.responseTime+\"ms\"] = responseTime < data.responseTime;",
                        "if(responseCode.code === 200) {",
                             //Test content type should present in header",
                             var contentTypeHeaderExists = responseHeaders.hasOwnProperty(\"Content-Type\");",
                             tests[\"Has Content-Type\"] = contentTypeHeaderExists;",
                                 tests[\"Content-Type is \"+data.ApplicationJsonContentType] = responseHeaders[\"Content-Type\"].has(data.ApplicationJsonContentType)
                             //Test body parameters",
                             var actualEventData;",
                                 //Parse json response",
                                 actualEventData = JSON.parse(responseBody);",
```

#### TestRail Advantages and disadvantages

- Advantages
  - Easy to monitor milestone and progress
  - JIRA Integration (easy to link issues)
  - Test case management
- Disadvantages
  - Not support Jenkins natively (Need passby Pangolin)

# docker-compose file

```
postman:
 image: postman/newman:4.2.2-alpine
 networks:
  - edgex-network
 volumes:
  - newman:/etc/newman
 entrypoint: /bin/sh -c
 environment:
  - TESTRAIL DOMAIN=edgexblockbox.testrail.io

    TESTRAIL USERNAME=cherry@iotechsys.com

  - TESTRAIL APIKEY=PURY2Uxkdcr2yNDxXsu4-4HIlLXjza1AsJuySrRqa
  - TESTRAIL PROJECTID=1
  - TESTRAIL SUITEID=2
```

#### Collection file

```
COLLECTION PATH="collections/core-data.postman collection.json"
ENV PATH="environment/CoredataEnv.postman environment.json"
if [ -f $NAMESFILE ]; then
    . $NAMESFILE
else
   echo "Error: Names file does not exist."
   exit $?
fi
echo "Info: Initiating Coredata Test."
echo "[info] ----- use docker-compose run newman ------
docker-compose run --rm postman "npm i -g newman-reporter-testrail && newman run ${COLLECTION PATH} --folder
#docker-compose run postman run ${COLLECTION PATH} \
    --folder="event error 4xx" --iteration-data="data/eventData.json" --environment=${ENV PATH} \
    --reporters="junit,cli"
#docker-compose run postman run ${COLLECTION PATH} \
    --folder="reading" --iteration-data="data/readingData.json" --environment=${ENV PATH} \
    --reporters="junit,cli"
#docker-compose run postman run ${COLLECTION PATH} \
```