

NARMS P2P

SAFAPS Acceptance Test Sprint 2

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	Project name	NARMS P2P	
	Subject	Acceptance test	
	Chapter name	<i>Purpose of the document</i>	

1 Purpose of the document

The document presents how acceptance testing was conducted for the SAFAPS project Sprint 2. The document will present several test cases, the actual format of the tests, tools used for testing and the results of the testing process.

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3 SAFAPS Backlog for sprint 2

The Backlog contains only 1 user story:

- As a PO for SAFAPS, I want a working and tested SAFAPS API with callable methods, so that I can begin integrating it with NARMS

Details regarding this user story:

1. Create manually 1 organization account (ex: SAMO) into SAFAPS.
2. The methods from the SAFAPS API should be callable respecting the defined format, but no need to implement complex logic behind them.
3. Write unit tests for the methods you are going to implement. You can use some 'dummy' data respecting the format in your tests.
4. You should deploy it on the test environment, and have it running so that I can perform acceptance testing. (In case you have some problems with deployment, let me know; I might do the tests on your own machines.)

The acceptance tests will be performed on the methods of the API. The methods can be divided into 3 areas: Evaluation, Manager Management and Invoices.

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4 Testing tools

4.1 Advanced REST Client App

A browser extension for Google Chrome that allows to make HTTP/HTTPS calls to Web APIs.

<https://chrome.google.com/webstore/detail/advanced-rest-client/hgmlloofddfdnphfgcellkdfbfjeloo>

4.2 Mockable.io

A web application that allows you to mock web services.

<https://www.mockable.io>

Because SAFAPS's response for an evaluation request is send to a URL that the requester needs to provide, it is necessary to have a web service method that would receive the response. With mockable.io it is possible to create a mock for this method. Here is the URL that accepts a POST request:

<http://demo1559890.mockable.io/response>

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5 Evaluations area

5.1 Request for an evaluation respecting the specification

http://193.10.30.123/evaluations

GETPOSTPUTPATCHDELETEHEADOPTIONSOther

RawFormHeaders

Authorization: Basic NETKcV34VUtRUXd1S1B1TQ==
Content-Type: application/json

RawFormFiles (0)Payload

ENCODE PAYLOADDECODE PAYLOAD

```
{
  "ResponseURL": "http://toto.fr",
  "Events": [
    {
      "TimeZone": "Europe/Paris",
      "StartTime": "2016-02-05 17:18:30",
      "EndTime": "2016-02-06 17:18:30",
      "ASEnvironment": "T",
      "ControlTechnology": "R",
      "ControllerStatus": "MCS",
      "Traffic": "VL",
      "Equipment": "O",
      "Weather": "HD"
    },
    {
      "TimeZone": "Europe/Paris",
      "StartTime": "2016-02-05 17:18:30",
      "EndTime": "2016-02-06 17:18:30",
      "ASEnvironment": "T",
      "ControlTechnology": "R",
      "ControllerStatus": "MCS",
      "Traffic": "H",
      "Equipment": "O",
      "Weather": "HD"
    }
  ]
}
```

ClearSend

Status: 200: OK Loading time:56ms

Response headers (6)

Request headers (7)

Redirects (0)

Server: nginx/1.6.2
Content-Type: application/json
Transfer-Encoding: chunked
Connection: keep-alive
Cache-Control: no-cache
Date: Fri, 12 Feb 2016 10:04:21 GMT

RawJSONResponse

COPY TO CLIPBOARD SAVE AS FILE

```
{
  "RequestId": 277
  "ResponseURL": "http://toto.fr"
}
```

PASS

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5.2 Request for an evaluation without providing an API key in the authorization field

http://193.10.30.123/evaluations

GET POST PUT PATCH DELETE HEAD OPTIONS Other

RawFormHeaders

content-Type: application/json

RawFormFiles (0)Payload

ENCODE PAYLOADDECODE PAYLOAD

```
{  "ResponseUrl": "http://demo1559890.mockable.io/response",  "Events": [    {      "TimeZone": "Europe/Paris",      "StartTime": "2016-02-08 13:00:00",      "EndTime": "2016-03-08 14:00:00",      "ASEnvironment": "E",      "ControlTechnology": "R",      "ControllerStatus": "SC",      "Traffic": "B",      "Equipment": "SD",      "Weather": "HD"    },    {      "TimeZone": "Europe/Paris",      "StartTime": "2016-02-08 13:00:00",      "EndTime": "2016-03-08 14:00:00",      "ASEnvironment": "E",      "ControlTechnology": "R",      "ControllerStatus": "SC",      "Traffic": "B",      "Equipment": "SD",      "Weather": "HD"    }  ]}
```

ClearSend

Status: 401: Unauthorized Loading time: 47ms

Response headers (6)Request headers (6)Redirects (0)

Server: nginx/1.6.2
Content-Type: application/json
Transfer-Encoding: chunked
Connection: keep-alive
Cache-Control: no-cache
Date: Fri, 12 Feb 2016 10:06:17 GMT

RawJSONResponse

COPY TO CLIPBOARD SAVE AS FILE

```
{  "Error": "The authorization field is not specified or the API key is not valid"}
```

PASS

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5.3 Request for an evaluation with some elements in the body of the request having missing attributes

http://193.10.30.123/evaluations

GET POST PUT PATCH DELETE HEAD OPTIONS Other

RawFormHeaders

Authorization: Basic NETKCV34VUTRUXD1S1B1TQ=
Content-Type: application/json

RawFormFiles (0)Payload

ENCODE PAYLOADDECODE PAYLOAD

```
{
  "ResponseUrl": "http://demo1559890.mockable.io/response",
  "Events": [
    {
      "TimeZone": "Europe/Paris",
      "StartTime": "2016-02-08 13:00:00",
      "EndTime": "2016-03-08 14:00:00",
      "ASHEnvironment": "E"
    },
    {
      "TimeZone": "Europe/Paris",
      "StartTime": "2016-02-08 14:00:00",
      "EndTime": "2016-03-08 15:00:00",
      "ASHEnvironment": "E",
      "Traffic": "S",
      "Equipment": "Q",
      "Weather": "HD"
    }
  ]
}
```

Status: 400: Bad Request Loading time:42ms

ClearSend

Response headers (6)

Request headers (7)

Redirects (0)

Server: nginx/1.6.2
Content-Type: application/json
Transfer-Encoding: chunked
Connection: keep-alive
Cache-Control: no-cache
Date: Fri, 12 Feb 2016 10:09:49 GMT

RawJSONResponse

COPY TO CLIPBOARD SAVE AS FILE

```
{
  "Error": "One or several event attributes are missing in the event [1]: '[Traffic]', '[Equipment]', '[Weather]', "
}
```

PASS

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5.4 Request for an evaluation without providing a response URL

http://193.10.30.123/evaluations

GET POST PUT PATCH DELETE HEAD OPTIONS Other

RawFormHeaders

Authorization: Basic NETkcV34VtRUXd1S1B1TQ==
Content-Type: application/json

RawFormFiles (0)Payload

ENCODE PAYLOADDECODE PAYLOAD

```
{
  "Events": [
    {
      "TimeZone": "Europe/Paris",
      "StartTime": "2016-02-05 17:18:30",
      "EndTime": "2016-02-05 17:18:30",
      "ASHEnvironment": "I",
      "ControlTechnology": "R",
      "ControllerStatus": "MCS",
      "Traffic": "VL",
      "Equipment": "D",
      "Weather": "HD"
    },
    {
      "TimeZone": "Europe/Paris",
      "StartTime": "2016-02-05 17:18:30",
      "EndTime": "2016-02-05 17:18:30",
      "ASHEnvironment": "I",
      "ControlTechnology": "R",
      "ControllerStatus": "MCS",
      "Traffic": "H",
      "Equipment": "D",
      "Weather": "HD"
    }
  ]
}
```

ClearSend

Status: 500: Internal Server Error Loading time:80ms

Response headers (6)Request headers (7)Redirects (0)

Server: nginx/1.6.2
Content-Type: text/html; charset=UTF-8
Transfer-Encoding: chunked
Connection: keep-alive
Cache-Control: no-cache
Date: Fri, 12 Feb 2016 10:16:29 GMT

RawParsedResponse

OPEN OUTPUT IN NEW WINDOW COPY TO CLIPBOARD SAVE AS FILE OPEN IN JSON TAB

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8" />
    <title>An Error Occurred: Internal Server Error</title>
  </head>
  <body>
    <h1>Oops! An Error Occurred</h1>
    <h2>The server returned a "500 Internal Server Error".</h2>

    <div>
      Something is broken. Please let us know what you were doing when this error occurred.
      We will fix it as soon as possible. Sorry for any inconvenience caused.
    </div>
  </body>
</html>
```

Code highlighting thanks to CODE MIRROR

FAIL

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6 Manager Management Area

6.1 Request to add a manager respecting the format

http://193.10.30.123/organizations/managers

GET POST PUT PATCH DELETE HEAD OPTIONS Other

RawFormHeaders

Authorization: Basic NETKCV34VUtrUXd1S1B1TQ==
Content-Type: application/json

RawFormFiles (0)Payload

ENCODE PAYLOADDECODE PAYLOAD

{
 "name": "HR. Anderson"
}

ClearSend

Status: 200: OK Loading time:27ms

Response headers (6)

Request headers (7)

Redirects (0)

Server: nginx/1.6.2
Content-Type: application/json
Transfer-Encoding: chunked
Connection: keep-alive
Cache-Control: no-cache
Date: Fri, 12 Feb 2016 10:10:55 GMT

RawJSONResponse

COPY TO CLIPBOARD SAVE AS FILE

{
 "ManagerId": 12
 "Name": "Rob"
 "ApiKey": "2154dzdqdz=="
}

PASS

6.2 Request to add a manager without providing the manager name

http://193.10.30.123/organizations/managers

GET POST PUT PATCH DELETE HEAD OPTIONS Other

RawFormHeaders

Authorization: Basic NETKCV34VUtrUXd1S1B1TQ==
Content-Type: application/json

RawFormFiles (0)Payload

ENCODE PAYLOADDECODE PAYLOAD

{}

ClearSend

Status: 200: OK Loading time:32ms

Response headers (6)

Request headers (7)

Redirects (0)

Server: nginx/1.6.2
Content-Type: application/json
Transfer-Encoding: chunked
Connection: keep-alive
Cache-Control: no-cache
Date: Fri, 12 Feb 2016 10:12:21 GMT

RawJSONResponse

COPY TO CLIPBOARD SAVE AS FILE

{
 "ManagerId": 12
 "Name": "Rob"
 "ApiKey": "2154dzdqdz=="
}

FAIL

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7 Invoices Area

7.1 Request to produce an invoice that will be sent by email

>

http://193.10.30.123/organizations/invoices

:

GET

POST

PUT

PATCH

DELETE

HEAD

OPTIONS

Other

Raw

Form

Headers

Authorization: Basic Basic NETKCVJ4VUTRUXd15181TQ==

Clear

Send

Status: 200: OK Loading time:36ms

Response headers (6)

Request headers (5)

Redirects (0)

Server: nginx/1.6.2
Content-Type: application/json
Transfer-Encoding: chunked
Connection: keep-alive
Cache-Control: no-cache
Date: Fri, 12 Feb 2016 10:14:21 GMT

Raw

JSON

Response

COPY TO CLIPBOARD

SAVE AS FILE

{
 "OrganizationName": "ATCO"
 ,-"Invoice": {
 "Date": "2016-02-01 12:12:12"
 ,-"PeriodStart": "2016-02-01 12:12:12"
 ,-"PeriodEnd": "2016-02-01 12:12:12"
 ,-"Amount": 125
 ,-"Currency": "test"
 }
}

PASS

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	Chapter name	<i>Results</i>	

8 Results

Item	Result	Issues
Request for an evaluation respecting the specification	Pass	
Request for an evaluation without providing an API key in the authorization field	Pass	
Request for an evaluation with some elements in the body of the request having missing attributes	Pass	
Request for an evaluation without providing a response URL	Fail	Returns Http code 500, Internal Server Error
Request to add a manager respecting the format	Pass	It would be nice though if it returned the same manager name that was passed in the request body.
Request to add a manager without providing the manager name	Fail	Because the body of the request was empty, it should return an error.
Request to produce an invoice that will be sent by email	Pass	