Female Tech Leader Hackathon Oct. 2018 Postman

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Contents

Who am I

- Peter Daum

- Senior Software Engineer working at the core SMS delivery platform

- 5+ years @ tyntec

- Keen on software quality, love hiking with my family and training Brandy

Tyntecs APIs

A brief overview on tyntecs apis

- REST APIs, secured either by api token or username / password

- Messaging via

  - **SMS**

  - **Mobile Chat** (eg. Facebook Messanger)

- **One time password**

- Global Number Portability

- Global Number Verification

Using the APIs

Access via API Key

- The overhauled / new APIs can be accessed only by an API Key

- The API Key removes the necessity to use username / password

- Internally it's linked with the customers account

- Can be easily changed by the customer

- Or blocked by us in case we get aware of a security issue

Using our APIs

- Command line tools like cURL or httpi (examples on the homepage)

- Programming languages that support HTTPS based communication

- Tools like Postman
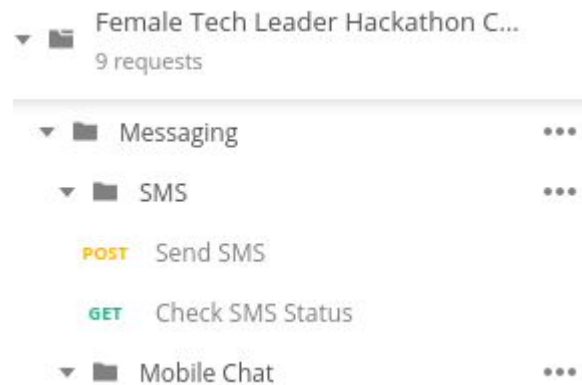
Postman? Collection? Environment?

Postman?

- Postman is an application that makes it easy to use http based APIs without dealing with command line tools

```
→ ~ curl http://username:password@ape6:8180/rest/v1/100503-0a2ed0a1-5d21-4524-98cb-25fd8c429508
```

Collection?

- Postman Collections are prepared sets of API calls

Environment?

- The Environment of Postman is a set of attributes that can be used in Collections

- It allows Collections to be templated

- It makes it easy to use the same Collection but for different target systems

  - Production

  - QA

Setting up Postman

Prepare the Collection

- Unpack the file *femaleTechLeader - Oct 2018 - Postman.zip*

Setup Postman

- Download Postman from https://www.getpostman.com/apps

- Run the installation

- Start the application and skip the login / register pages

- Open the *File* menu and select *Import* item

- Choose now *Import Folder* and select the folder you unpacked the collection into after clicking on *Choose Folders*

- Now both the collection and the Environment is imported

Preparing the collection

- In order to use the collection in Postman the apikey, username and password needs to be specified as well as the receivernumber
This needs to be done in the Environment section

- In the right upper corner is a Box stating
No Environment
click on it an select
Female Tech Leader Hackathon

- Now click on the Eye icon and use the pen symbol on the values in the right most column to set the values for *apikey, username, password* to the credentials provided
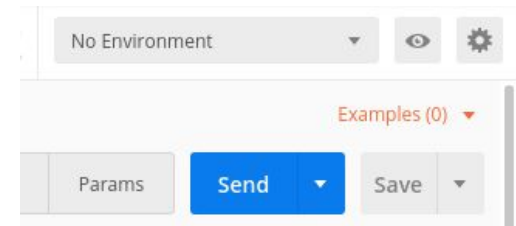
Play around

Play around

- The following examples make use of Postman

- The requests can be easily transfered as cURL or httpie or .. code when using the *Code* button the right side after selecting the request.

Messaging via SMS

Send a SMS

- On the left side open the folder structure *Messaging → SMS* and select *Send SMS*

- Change the *to* number in the Environment to your own with international prefix

-

| to | +4917624435312 | +4917624435312 |
| message | Hi from Female Tech Leader Hackathon | Hi from Female Tech Leader Hackathon |

- Now click on *Send*

- The result should look like this

Check status of the SMS

- Copy from the response the value *requestId* and put it into the *requestId*
  field of the Enviroment

message	Hi from Female Tech Leader Hackathon	Hi from Female Tech Leader Hackathon
requestId	requestId	100503-fc25cdf9-f5a2-44d2-b504-501b830efaea

- Choose the *Check SMS Status* command from the left side and click on *Send*

- The result should
  look like this

```
{
    "requestId": "100503-fc25cdf9-f5a2-44d2-b504-501b830efaea",
    "overallState": "DELIVERED",
    "size": 1,
    "userContext": "",
    "mccmnc": "26207",
    "ttid": "16",
    "contentList": [
        {
            "deliveryState": "DELIVERED",
            "statusText": "Hi from Female Tech ",
            "msgId": "100503-1539350737087+4917624435312",
            "errorCode": "001",
            "sentDate": "2018-10-12T13:25:37+00:00",
            "doneDate": "2018-10-12T13:25:48+00:00"
        }
    ],
    "from": "tyntec",
    "to": "+4917624435312"
}
```

One time passwords

Send an One Time Password

- On the left side open the folder structure *OTP – One time password* select *Send OTP*

- Now click on *Send*

- The result should
  look like this

- You should have received
  an password by SMS

```
{
    "accountId": "femalecpaas",
    "applicationId": "2da63bb9-b3ac-3cb6-9b87-905024c38206",
    "otpId": "e9a00845-a4fc-43b9-9f85-f6c61d90b07b",
    "number": "+4917624435312",
    "attemptCount": 0,
    "otpStatus": "ACTIVE",
    "referenceId": null,
    "expire": 1539351765250,
    "created": 1539351465250,
    "timestampExpire": "2018-10-12T13:42:45.250Z",
    "timestampCreated": "2018-10-12T13:37:45.250Z"
}
```

Check OTP status

- Copy from the previous result the *otpId* and put it in the *Environment* under the key *optId*

otpCode	otpCode	1009
otpId	otpId	e9a00845-a4fc-43b9-9f85-f6c61d90b07b

- On the left side open the folder structure *OTP – One time* password select Check *OTP*

- Click on send

Check OTP status - continued

- The result should look like this

```
{
    "accountId": "femalecpaas",
    "applicationId": "2da63bb9-b3ac-3cb6-9b87-905024c38206",
    "otpId": "e9a00845-a4fc-43b9-9f85-f6c61d90b07b",
    "number": "+4917624435312",
    "attemptCount": 0,
    "otpStatus": "ACTIVE",
    "referenceId": null,
    "expire": 1539351765250,
    "created": 1539351465250,
    "timestampCreated": "2018-10-12T13:37:45.250Z",
    "timestampExpire": "2018-10-12T13:42:45.250Z"
}
```

Verify the OTP code

- In the E*nvironment* put the code you have received before in the *otpCode* field

- On the left side open the folder structure *OTP – One time* password select Verify *OTP code*

- Click on *Send*

- The result look
  should like this

```
{
    "accountId": "femalecpaas",
    "applicationId": "2da63bb9-b3ac-3cb6-9b87-905024c38206",
    "otpId": "b8427117-09c9-4396-b6ac-d1e70db59dd4",
    "number": "+4917624435312",
    "attemptCount": 1,
    "otpStatus": "VERIFIED",
    "referenceId": null,
    "expire": 1539352101690,
    "created": 1539351801690,
    "timestampExpire": "2018-10-12T13:48:21.690Z",
    "timestampCreated": "2018-10-12T13:43:21.690Z"
}
```