



stubby4j

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What is Stubby4j?



A highly flexible and configurable tool for testing interactions of SOA applications with web services (REST, SOAP, WSDL etc.) over HTTP(S) protocol.

It is an actual HTTP server (Stubby4j uses embedded Jetty) that allows stubbing of external systems with ease for integration, contract & behavior testing

Why the word “stubby”?



It is a stub HTTP server after all, hence the "stubby". Also, in Australian slang "stubby" means *beer bottle*

Why would a developer use Stubby4j?

- **Simulate responses from real server and don't care (or cannot) to go over the network**
- **Concentrate on the task at hand**
- Third party web service your application suppose to contract with is not ready yet
- Verify that your code makes HTTP requests with all the required parameters and/or headers
- Verify that your code correctly handles HTTP error codes
- You want to trigger response from the server based on the request parameters over HTTP or HTTPS
- Support for any of the available HTTP methods
- Simulate support for different types of HTTP Authorizations: Basic, Bearer Token & others
- Support for HTTP 30x redirects
- Provide canned answers in your contract/integration tests
- Enable delayed responses for performance and stability testing
- Avoid to spend time coding for the above requirements

Setup

- Download the [latest stubby4j version](#) (the JAR archive).
- Create the following local YAML file
- Execute the downloaded stubby JAR using
- Command `java -jar stubby4j-x.x.xx.jar -d <PATH_TO_YOUR_CREATED_LOCAL_YAML_FILE>`
- Navigate to `http://localhost:8882/sample` to get the stubbed response body
- Navigate to stubby4j admin portal at `http://localhost:8889/status` to see what has been stubbed & other useful data

```
- request:  
  method: GET  
  url: /sample  
response:  
  status: 200  
  body: >  
    {  
      "firstName": "Suphawadee" ,  
      "lastName": "Santaweesook" ,  
      "phoneNumber": "091-XXX-XX95"  
    }  
  
- request:  
  method: POST  
  url: /login  
  post: >  
    {  
      "username": "Suphawadee" ,  
      "password": "123456"  
    }  
response:  
  status: 200  
  body: >  
    {  
      "firstName": "Suphawadee" ,  
      "lastName": "Santaweesook" ,  
    }
```

Demo part I

Run

```
java -jar stubby4j-6.0.2.jar -d sample.yaml
```

- Admin portal configured
<http://localhost:8889>
- Admin portal status
<http://localhost:8889/status>
- Stubs portal configured
<http://localhost:8882>
- Stubs portal configured TLS
<http://localhost:7443> using internal keystore

```
Pooh% java -jar stubby4j-6.0.2.jar -d sample.yaml
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
Loaded: [GET] /sample
Loaded: [POST] /login

stubby4j successfully started after 772 milliseconds at 2019-08-23 11:43:28+0700

Admin portal configured at http://localhost:8889
Admin portal status enabled at http://localhost:8889/status
Stubs portal configured at http://localhost:8882
Stubs portal configured with TLS at https://localhost:7443 using internal keystore

Quit: ctrl-c
```

Admin portal configured

```
- request:
  method: GET
  url: /sample
response:
  status: 200
  body: |
  {
    "firstName": "Suphawadee" ,
    "lastName": "Santaweesook" ,
    "phoneNumber": "091-XXX-XX95"
  }

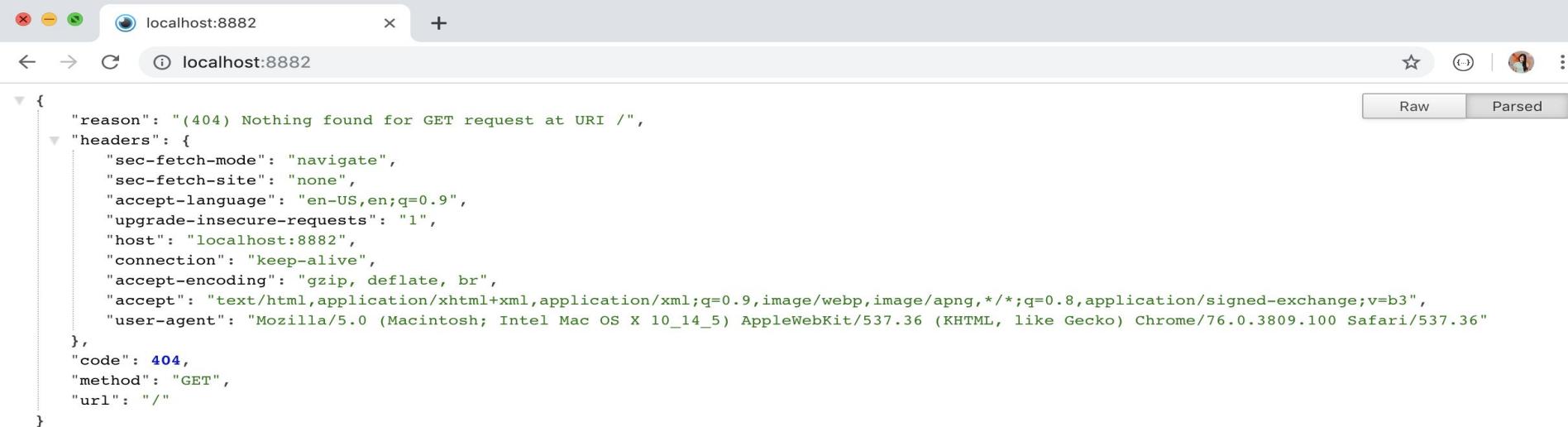
- request:
  method: POST
  url: /login
  post: |
  {
    "username": "Suphawadee",
    "password": "123456"
  }
response:
  status: 200
  body: |-
  {
    "firstName": "Suphawadee" ,
    "lastName": "Santaweesook" ,
  }
```

admin portal status

jvm	
HEAP MEMORY USAGE	init = 268435456(262144K) used = 18482256(18049K) committed = 257425408(251392K) max = 3817865216(3728384K)
NON-HEAP MEMORY USAGE	init = 2555904(2496K) used = 22791536(22257K) committed = 23592960(23040K) max = -1(-1K)
jetty parameters	
HOST	localhost
ADMIN PORT	8889
STUBS PORT	8882
STUBS TLS PORT	7443
NEW STUB DATA POST URI	http://localhost:8889/
stubby4j parameters	
VERSION	6.0.2
RUNTIME CLASSPATH	stubby4j-6.0.2.jar
LOCAL BUILT DATE	2019-01-15 17:24:47-0800
UPTIME	0 days, 0 hours, 24 mins, 10 secs
INPUT ARGS	<code>[-data=sample.yaml]</code>
STUBBED ENDPOINTS	2
LOADED YAML	<pre>parentDir=/Users/suphawadee/Desktop/sample/ name=sample.yaml size=0.58kb lastModified=2019-08-23 09:59:56+0700</pre>
stubby stats	
ENDPOINT HITS	No requests were made to stubby yet

stubby stats	
ENDPOINT HITS	No requests were made to stubby yet
request	
METHOD	[GET]
URL	/sample
RAW YAML	[view]
response	
HEADERS	{x-stubby-resource-id=0}
HTTPSTATUSCODE	[200 OK]
BODY	{ "firstName":"Suphawadee" , "lastName":"Santaweesook" , "phoneNumber":"091-XXX-XX95" }
RAW YAML	[view]
request	
POST	{ "username":"Suphawadee" , "password":"123456" }
METHOD	[POST]
URL	/login
RAW YAML	[view]
response	
HEADERS	{x-stubby-resource-id=1}
HTTPSTATUSCODE	[200 OK]
BODY	{ "firstName":"Suphawadee" , "lastName":"Santaweesook" , }
RAW YAML	[view]

Stubs portal configured



A screenshot of a web browser window titled "localhost:8882". The address bar also shows "localhost:8882". The page content displays a JSON object representing a 404 error response. The JSON structure is as follows:

```
{  
  "reason": "(404) Nothing found for GET request at URI /",  
  "headers": {  
    "sec-fetch-mode": "navigate",  
    "sec-fetch-site": "none",  
    "accept-language": "en-US,en;q=0.9",  
    "upgrade-insecure-requests": "1",  
    "host": "localhost:8882",  
    "connection": "keep-alive",  
    "accept-encoding": "gzip, deflate, br",  
    "accept": "text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3",  
    "user-agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_14_5) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/76.0.3809.100 Safari/537.36"  
  },  
  "code": 404,  
  "method": "GET",  
  "url": "/"  
}
```

The "Raw" tab is selected in the top right corner of the browser interface.

Stubs portal configured (Method GET)

The screenshot shows a browser window with two tabs. The active tab is titled "view-source:localhost:8882/sample" and displays a JSON object with three fields: firstName, lastName, and phoneNumber. The content of the JSON object is:

```
{  
  "firstName": "Suphawadee" ,  
  "lastName": "Santaweesook" ,  
  "phoneNumber": "091-XXX-XX95"  
}
```

The second tab, titled "view-source:localhost:8882/sa", shows the internal configuration of the Stubs portal. It includes several status messages and a log of requests and matches. The log starts with:

```
Admin portal configured at http://localhost:8889  
Admin portal status enabled at http://localhost:8889/status  
Stubs portal configured at http://localhost:8882  
Stubs portal configured with TLS at https://localhost:7443 using internal keystore
```

Below this, it says "Quit: ctrl-c". The log then continues with various requests and their outcomes:

```
Quit: ctrl-c  
  
[12:02:54] -> GET [/]  
[12:02:54] <- 200 [/] OK  
[12:07:36] -> GET [/status]  
[12:07:36] <- 200 [/status] OK  
[12:07:37] -> GET [/status]  
[12:07:37] <- 200 [/status] OK  
[12:16:20] -> GET [/]  
Failed to match on URL [/sample] WITH [/]  
Failed to match on URL [/login] WITH [/]  
[12:16:20] <- 404 [/] Not Found  
[12:22:21] -> GET [/sample]  
Matched on URL [/sample] WITH [/sample]  
Matched on METHOD [[GET]] WITH [[GET]]  
Matched on POST BODY □ WITH □  
Matched on HEADERS [{} ] WITH [{accept=text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3, upgrade-insecure-requests=1, connection=keep-alive, user-agent=Mozilla/5.0 (Macintosh; Intel Mac OS X 10_14_5) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/76.0.3809.100 Safari/537.36, sec-fetch-site=none, host=localhost:8882, sec-fetch-user=?1, accept-encoding=gzip, deflate, br, accept-language=en-US,en;q=0.9, sec-fetch-mode=navigate}]]  
Matched on QUERY [{} ] WITH [{} ]  
Found a match after 1 milliseconds URL [/sample]  
Caching the found match for URL [/sample]  
[12:22:21] <- 200 [/sample] OK
```

Stubs portal configured (Method POST)

Postman

My Workspace ▾ Invite Upgrade

No Environment

POST http://localhost:8882/login

Untitled Request

POST http://localhost:8882/login

Params Authorization Headers (9) Body Pre-request Script Tests

Body (application/json)

1 {
2 "username": "Suphawadee",
3 "password": "123456"
4 }

Matched on METHOD [[GET]] WITH [[GET]]
Matched on POST BODY [] WITH []
Matched on HEADERS [] WITH [{cache-control=max-age=0, accept=text/html,application/xhtml+xml,application/xml;q=0.9, image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3, upgrade-insecure-requests=1, connection=keep-alive, user-agent=Mozilla/5.0 (Macintosh; Intel Mac OS X 10_14_5) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/76.0.3809.100 Safari/537.36, sec-fetch-site=none, host=localhost:8882, sec-fetch-user=?1, accept-encoding=gzip, deflate, br, accept-language=en-US,en;q=0.9, sec-fetch-mode=navigate}]
Matched on QUERY [] WITH []
Found a match after 1 milliseconds URL [/sample]
Potential match for the URL [/sample] was deemed as a full match
[12:37:15] <- 200 [/sample] OK
[12:42:06] -> POST [/login]
Failed to match on URL [/sample] WITH [/login]
Matched on URL [/Login] WITH [/Login]
Matched on METHOD [[POST]] WITH [[POST]]
Matched on POST BODY [{
 "username": "Suphawadee",
 "password": "123456"
}] WITH [{
 "username": "Suphawadee",
 "password": "123456"
}]
Matched on HEADERS [] WITH [{accept=*, cache-control=no-cache, user-agent=PostmanRuntime/7.15.2, connection=keep-alive, postman-token=cbdb145a-fdcd-45d2-829c-205f0a3dad71, host=localhost:8882, accept-encoding=gzip, deflate, content-length=58, content-type=application/json}]
Matched on QUERY [] WITH []
Found a match after 6 milliseconds URL [/login]
Caching the found match for URL [/login]
[12:42:06] <- 200 [/login] OK

Body Cookies Headers (9) Test Results

Pretty Raw Preview JSON

1 {
2 "firstName": "Suphawadee",
3 "lastName": "Santaweesook",
4 }

Stubs portal configured TLS

A screenshot of a web browser window. The address bar shows two tabs: "https://localhost:7443/sample" and "view-source:https://localhost:7443/sample". The main content area displays a JSON object and a detailed log of network requests.

```
1 {  
2   "firstName": "Suphawadee" ,  
3   "lastName": "Santaeweewook" ,  
4   "phoneNumber": "091-XXX-XX95"  
5 }
```

Found a match after 11 milliseconds URL [/sample]
Caching the found match for URL [/sample]
[16:19:40] <- 200 [/sample] OK
[16:19:40] -> GET [/favicon.ico]
[16:19:47] -> GET [/sample]
Local cache contains potential match for the URL [/sample]
Matched on URL [/sample] WITH [/sample]
Matched on METHOD [[GET]] WITH [[GET]]
Matched on POST BODY □ WITH □
Matched on HEADERS [{}] WITH [{accept=text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3, upgrade-insecure-requests=1, connection=keep-alive, user-agent=Mozilla/5.0 (Macintosh; Intel Mac OS X 10_14_5) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/76.0.3809.100 Safari/537.36, sec-fetch-site=none, host=localhost:7443, accept-encoding=gzip, deflate, br, accept-language=en-US,en;q=0.9, sec-fetch-mode=navigate}]
Matched on QUERY [{}] WITH [{}]
Found a match after 0 milliseconds URL [/sample]
Potential match for the URL [/sample] was deemed as a full match
[16:19:47] <- 200 [/sample] OK
[16:21:10] -> GET [/sample]
Local cache contains potential match for the URL [/sample]
Matched on URL [/sample] WITH [/sample]
Matched on METHOD [[GET]] WITH [[GET]]
Matched on POST BODY □ WITH □
Matched on HEADERS [{}] WITH [{accept=text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3, upgrade-insecure-requests=1, connection=keep-alive, user-agent=Mozilla/5.0 (Macintosh; Intel Mac OS X 10_14_5) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/76.0.3809.100 Safari/537.36, sec-fetch-site=none, host=localhost:7443, sec-fetch-user=?1, accept-encoding=gzip, deflate, br, accept-language=en-US,en;q=0.9, sec-fetch-mode=navigate}]
Matched on QUERY [{}] WITH [{}]

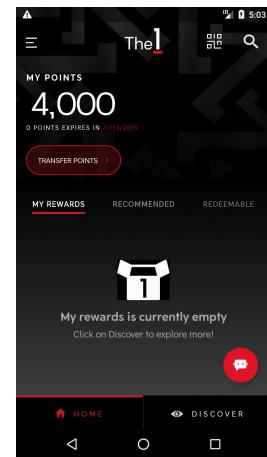
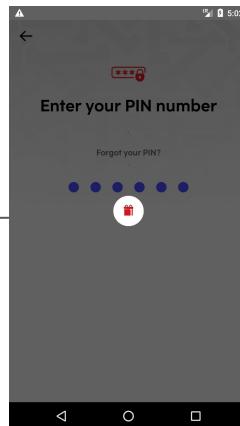
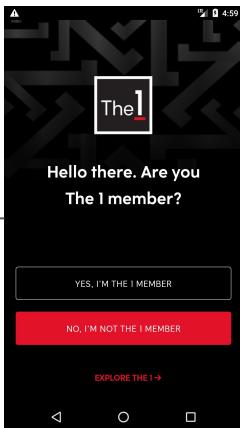
Command-line switches

```
Pooh% java -jar stubby4j-6.0.2.jar -help
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
usage:
  java -jar stubby4j-x.x.xx.jar [-a <arg>] [-d <arg>] [-da] [-ds]
  [-h] [-k <arg>] [-l <arg>] [-m] [-o] [-p <arg>] [-s <arg>] [-t
  <arg>] [-v] [-w]
-a,--admin <arg>          Port for admin portal. Defaults to 8889.
-d,--data <arg>           Data file to pre-load endpoints. Valid YAML
                           1.1 expected.
-da,--disable_admin_portal Does not start Admin portal
-ds,--disable_ssl          Does not enable SSL connections
-h,--help                  This help text.
-k,--keystore <arg>        Keystore file for custom TLS. By default TLS
                           is enabled using internal keystore.
-l,--location <arg>        Hostname at which to bind stubby.
-m,--mute                  Mute console output.
-o,--debug                 Dumps raw HTTP request to the console (if
                           console is not muted!).
-p,--password <arg>        Password for the provided keystore file.
-s,--stubs <arg>          Port for stub portal. Defaults to 8882.
-t,--tls <arg>            Port for TLS connection. Defaults to 7443.
-v,--version                Prints out to console stubby version.
-w,--watch                 Periodically scans for changes in last
                           modification date of the main YAML and
                           referenced external files (if any). The flag
                           can accept an optional arg value which is
                           the watch scan time in milliseconds. If
                           milliseconds is not provided, the watch
                           scans every 100ms. If last modification date
                           changed since the last scan period, the stub
                           configuration is reloaded
```

java -jar stubby4j-6.0.2.jar -help

stubby4j-x.x.xx.jar

Flow sample



Added: productFlavors

The screenshot shows the Android Studio interface with the project 'the1-android' open. The code editor displays the `build.gradle` file for the `app` module. A new section named `productFlavors` has been added to the configuration. The `Build Variants` tool window at the bottom shows that the `uiDebug` variant is selected for the `app` module.

```
45     debuggable true
46     proguardFiles getDefaultProguardFile('proguard-android.txt'), 'proguard-rules.pro'
47   }
48   dataBinding {
49     enabled = true
50   }
51
52   dexOptions {
53     javaMaxHeapSize "4g"
54   }
55
56   flavorDimensions "stage"
57   productFlavors {
58     ui {
59       applicationIdSuffix ".ui"
60       buildConfigField "Boolean", "ENABLE_P2P", "true"
61     }
62     sit {
63       applicationIdSuffix ".sit"
64       buildConfigField "Boolean", "ENABLE_P2P", "true"
65     }
66
67     uat {
68       applicationIdSuffix ".uat"
69       buildConfigField "Boolean", "ENABLE_P2P", "true"
70     }
71
72     production {
73       buildConfigField "Boolean", "ENABLE_P2P", "false"
74     }
75
76   }
77
78   lintOptions {
79     abortOnError false
80     checkReleaseBuilds false
81   }
82
83   compileOptions {
84     targetCompatibility 1.8
85     sourceCompatibility 1.8
86   }
87
88   android{}
```

The `Build Variants` table in the bottom-left corner shows the following variants:

Module	Build Variant
app	uiDebug
comm...	debug
count...	debug
the1...	uiDebug

Created : stubby folder

The screenshot shows the Android Studio interface with the project 'the1-android' open. The left sidebar displays the project structure, including the 'stubby' folder which contains 'run.sh' and 'run.yaml'. The 'run.yaml' file is currently selected and shown in the main editor area.

```
request:
  method: POST
  url: /oauth2/token
response:
  - status: 200
    body: >
      {
        "tokenType": "Bearer",
        "expiresIn": 86400,
        "accessToken": "eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsImp0aSI6ImJjYjg3NDM1YmNiM2Y5NzQwMTYwYmZkMDQ5ZmU50WNKZ",
        "refreshToken": "def502009133a0d8bd295de6ea1de110cac5df8c2308c68cccd4a222687955afe3c87212b17aa017e1d118765"
      }
  - status: 200
    body: >
      {
        "tokenType": "Bearer",
        "expiresIn": 86400,
        "accessToken": "eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsImp0aSI6ImZmMmU5N2IyZmI4M2VhMGVkJDg0YjRkMzdjMGlwOT0ZM",
        "refreshToken": "def502009133a0d8bd295de6ea1de110cac5df8c2308c68cccd4a222687955afe3c87212b17aa017e1d118765"
      }
  - request:
      method: GET
      url: /config
    response:
      status: 200
      file: ../app/src/test/resources/response/configuration.json
  - request:
      method: POST
      url: /login/prevalidate
    response:
      status: 200
      body: >
        {
          "cardNumber": "2011010003613184",
          "email": null,
          "hasMobile": true,
          "hasOnlineAccount": true,
          "hasOnlineEmail": false,
          "hasPin": true,
          "hasActivate": null,
          "mobile": "*****8705"
        }
```

The code in 'run.yaml' defines several API requests and their responses. It includes two token retrieval requests (status 200) and one configuration retrieval request (status 200). The configuration response points to a JSON file located at `../app/src/test/resources/response/configuration.json`. There is also a pre-validation request for login (status 200).

The screenshot shows the Android Studio interface with the following details:

- Project Structure:** The left sidebar displays the project structure under "the1-android". Key components include:
 - generated**
 - intermediates**
 - kotlin**
 - outputs**
 - tmp**
 - libs**
 - release**
 - src**: Contains .gitignore, app.iml, build.gradle, google-services.json, and proguard-rules.pro.
 - app-v3**
 - build**
 - common-rx**
 - countrypicker**
 - fastlane**
 - gradle**
 - stubby**: Contains run.sh, run.yaml, and stubby4j-6.0.2.jar.
 - the1-api**
 - .gitignore**
 - .gitlab-ci.yml**
 - airshipconfig.properties**
 - bitbucket-pipelines.yml**
 - build.gradle**
 - Gemfile**
 - Gemfile.lock**
 - gradle.properties**
 - gradlew**
 - gradlew.bat**
- Code Editor:** The main editor window contains the run.sh script and run.yaml configuration file.
 - run.sh:** Contains the command: `#!/usr/bin/env bash` followed by `java -jar stubby4j-6.0.2.jar -d run.yaml -l 192.168.100.216 -s 8888`.
 - run.yaml:** Contains the following configuration:

```
version: "1"
services:
  stubby:
    image: stubby4j:6.0.2
    ports:
      - 8888:8888
    environment:
      - PORT=8888
      - STUBBY_JAR=stubby4j-6.0.2.jar
      - STUBBY_CONFIG=run.yaml
      - STUBBY_LISTEN=192.168.100.216
```
- Toolbars and Status Bar:** The top bar includes standard file operations (File, Edit, View, Tools, Help) and a Git integration toolbar. The bottom status bar shows the current time (2:68), file encoding (LF), character set (UTF-8), code style (4 spaces), and a Git status indicator (Git: growth/stubby4j).
- Bottom Navigation:** The navigation bar includes tabs for Version Control, Logcat, TODO, Terminal, Build, Profiler, Run, and Event Log.

Demo part II

Implement with the 1 Android

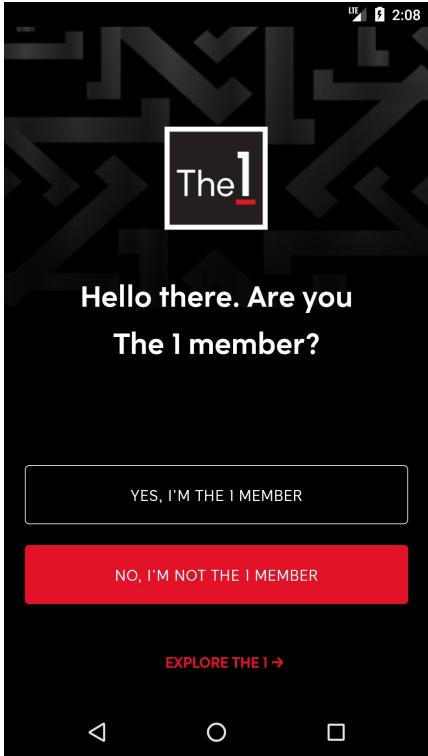
run.sh

```
Pooh% cd StudioProjects
Pooh% cd the1-android
Pooh% ls
Gemfile
Gemfile.lock
Makefile
README.md
airshipconfig.properties
app
Pooh% cd stubby
Pooh% ls
run.sh           run.yaml          stubby4j-6.0.2.jar
Pooh% ./run.sh
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
Loaded: [POST] /oauth2/token
Loaded: [GET] /config
Loaded: [POST] /login/prevalidate
Loaded: [GET] /me
Loaded: [GET] /notification

stubby4j successfully started after 629 milliseconds at 2019-08-23 13:44:39+0700

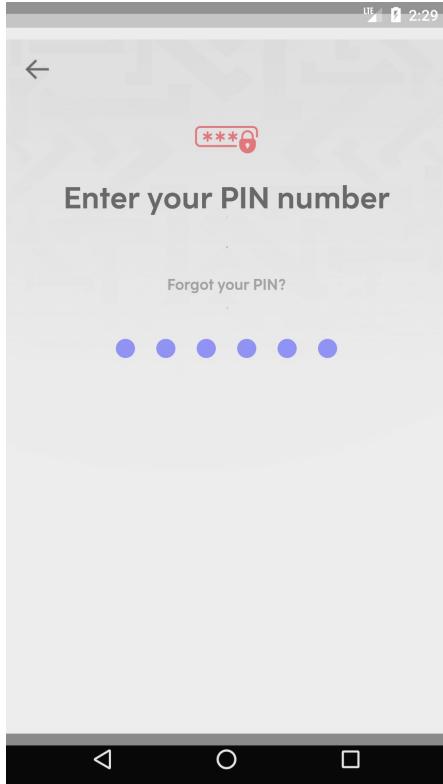
Admin portal configured at http://192.168.100.216:8889
Admin portal status enabled at http://192.168.100.216:8889/status
Stubs portal configured at http://192.168.100.216:8888
Stubs portal configured with TLS at https://192.168.100.216:7443 using internal keystore

Quit: ctrl-c
```

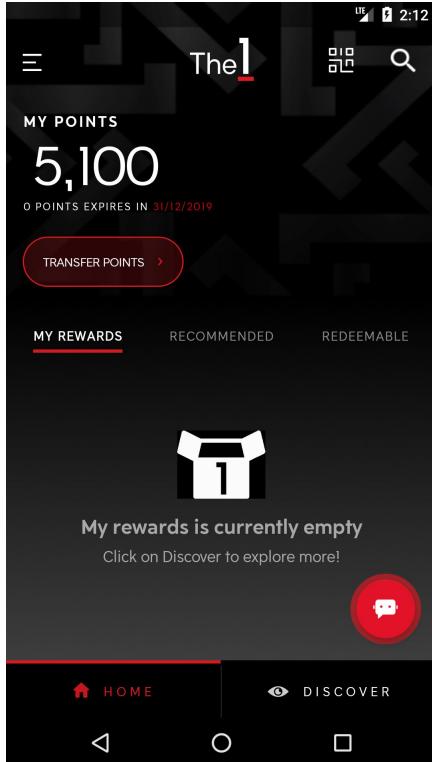


```
Quit: ctrl-c

[14:06:59] -> POST [/oauth2/token]
Matched on URL [/oauth2/token] WITH [/oauth2/token]
Matched on METHOD [[POST]] WITH [[POST]]
Matched on POST BODY [] WITH [grantType=client_credentials&clientId=t1c_android_app&clientSecret=qacQcAZ1TlLfal36C4dgWefv]
Matched on HEADERS [[]] WITH [[request-channel=Android, connection=keep-alive, user-agent=okhttp/3.14.1, app-version=2.10.0, host=192.168.100.216:8888, accept-language=en, accept-encoding=gzip, content-length=91, content-type=application/x-www-form-urlencoded]]
Matched on QUERY [] WITH []
Found a match after 25 milliseconds URL [/oauth2/token]
Caching the found match for URL [/oauth2/token]
[14:06:59] <- 200 [/oauth2/token] OK
[14:07:00] -> GET [/config]
Failed to match on URL [/oauth2/token] WITH [/config]
Matched on URL [/config] WITH [/config]
Matched on METHOD [[GET]] WITH [[GET]]
Matched on POST BODY [] WITH []
Matched on HEADERS [[]] WITH [[authorization=Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsImp0aSI6ImJjYjg3NDM1YmNiM2Y5NzQmMTYwYmZkMDQ5ZmU50WNkZDgwNDc0M2I2ZTRlNDljYTk1YTRlMtc3MzExZjExZmRmZTcxZTRhZjA5NTVmN2MwIn0.eyJhdWQiOiIxIiwianRpIjoiYmNiODc0MzViY2IzZjk3NDAxNjBiZmQwNDlmZTk5Y2RkODA0NzQyjZlNGU00WNhOTvhNGUxNzczMTFmZGZlNzFlNGFrMDk1NWY3YzAiLCJpYXQiOjE1njY0Njk0NzEsIm5izIi6MTU2NjQ2OTQ3MSwiZXhwIjoxNTY2NTU10DcxLCJzdWIiOiIiLCJjdXN0b21lc19pZCI6IiIsImN1c3RvbWVx3Rva2VuIjoiIiwic2NvcGVzIjpbXX0.PuhXuYjyhSn05pvax2tCgI9BgZib09hpRFZhEYgFZF5gHDcKn3WzE8PkzymJmhIwTAssBzcniPYbJr-mJjWXWl0xfkog-HCcJN2eAAF_JoRBFBvLDWEf78ZOFwYH60M-Vea0KndeTrcfUKdQErxZx0a702ZkbkrRczKYc7mlLfgL8, request-channel=Android, connection=keep-alive, user-agent=okhttp/3.14.1, app-version=2.10.0, host=192.168.100.216:8888, accept-language=en, accept-encoding=gzip]]
Matched on QUERY [] WITH []
Found a match after 2 milliseconds URL [/config]
Caching the found match for URL [/config]
[14:07:00] <- 200 [/config] OK
```



```
-version=2.10.0, host=192.168.100.216:8888, accept-language=en, accept-encoding=gzip}]  
Matched on QUERY [{} ] WITH [{} ]  
Found a match after 1 milliseconds URL [/config]  
Potential match for the URL [/config] was deemed as a full match  
[14:29:09] <- 200 [/config] OK  
[14:29:17] -> POST [/login/prevalidate]  
Local cache contains potential match for the URL [/login/prevalidate?loginType=mobileNo]  
Matched on URL [/login/prevalidate] WITH [/login/prevalidate]  
Matched on METHOD [[POST]] WITH [[POST]]  
Matched on POST BODY [] WITH [{"mobileNo": "66-916608795"}]  
Matched on HEADERS [{} ] WITH [{authorization=Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsImp0aSI6ImJjYjg3NDM1YmNiM2Y5NzQwMTYwYzkMDQ5ZmU5OWNkZDgwNDc0M2I2ZTRlNDLjYTk1YTRlMtc3MzExzjExZmRmZTcxZTRhZjA5NTVmNZMwIn0..eyJhdWQiOiIxIwiianRpIjoiYmNiODc0MzViY2IzJk3NDAxNjBzNmQwNDLmZTk5Y2RkODA0NzQzYjZlNGU00WNhOTVhNGUxNzczMTFmZGZ1NzFlNGFnMDk1NWY3YzAiLCJpYXQiOjE1NgY0Njk0NzEsIm5iZiI6MTU2NjQ20TQ3MSwiZXhwIjoxNTY2NTU10DcxLCJzdWIiOiIiLCJjdXN0b21lc19pZCI6IiIsImN1c3RvbWVxX3Rva2VuIjoiIiwic2NvcGVzIjpBX0.PuhXuYjh5n05pvax2tCgI98gZib09HpRFZhEygFZF5ghDcKm3WzE8PkzymJmhIwTAsSBzcnjPYbJr-mJjWXWl0xfkog-HCcJN2eAAF_JoRBFBvLDWEf78ZOFwYH60M-Vea0KndeTrcfUKdQErXz0a702ZkbkrRczKYc7mlfgL8, request-channel=Android, connection=keep-alive, user-agent=okhttp/3.14.1, app-version=2.10.0, host=192.168.100.216:8888, accept-language=en, accept-encoding=gzip, content-length=27, content-type=application/json; charset=UTF-8}]  
Matched on QUERY [{} ] WITH [{loginType=mobileNo} ]  
Found a match after 1 milliseconds URL [/login/prevalidate]  
Potential match for the URL [/login/prevalidate?loginType=mobileNo] was deemed as a full match  
[14:29:17] <- 200 [/login/prevalidate?loginType=mobileNo] OK  
[14:29:28] -> POST [/oauth2/token]  
Local cache contains potential match for the URL [/oauth2/token]  
Matched on URL [/oauth2/token] WITH [/oauth2/token]  
Matched on METHOD [[POST]] WITH [[POST]]  
Matched on POST BODY [] WITH [{grantType=password&clientId=t1c_android_app&clientSecret=qacQcAZtLLfa136C4dgWefv&username=66-916608795&password=123456&loginType=mobileNo} ]  
Matched on HEADERS [{} ] WITH [{request-channel=Android, connection=keep-alive, user-agent=okhttp/3.14.1, app-version=2.10.0, host=192.168.100.216:8888, accept-language=en, accept-encoding=gzip, content-length=138, content-type=application/x-www-form-urlencoded} ]
```



```
Potential match for the URL [/oauth2/token] was deemed as a full match
[14:12:45] <- 200 [/oauth2/token] OK
[14:12:45] -> GET [/me]
Failed to match on URL [/oauth2/token] WITH [/me]
Failed to match on URL [/config] WITH [/me]
Failed to match on URL [/login/prevalidate] WITH [/me]
Matched on URL [/me] WITH [/me]
Matched on METHOD [[GET]] WITH [[GET]]
Matched on POST BODY [] WITH []
Matched on HEADERS [{}]
WITH [{"authorization": "Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsImp0aSI6ImZmMu5N2IyZmI4M2VhMGVkJdg0YjRkMzdjMGIwOTQzMTAxNTExMTM3MjQ5Tg0YTFinGNjNtQ1ZjI3ZGNkMGYyYTRjNWRLZWQ5NzJyZM2In0.eyJhdWQiOiIxIiwianRpIjoiZmYzTk3YjJmYjgzZWEwZWRkODR1NGQzN2MwyjA5NDMxMDE1MTEzMcyNdl0DRhMWI0Y2M1NDVmjdY2QwZjJhNGM1ZGVlZdk3MmNjYzYiLCjpxXQi0jE1NjY0Njk3MjlsIm5iZiIGMTU2njQ20TcyMiwiXhwIjoxyNTY2NTU2MTiyLCJzdWI0iIyMzc4IiwiY3VzdG9tZXJfaWQi0iJNeEhGUTNzk0g200Nrcc05oaERad0j6Q2tXQ3lCvE9hbG5GQXpMNkhOnUFpVUI1MUJ1R2NpT2VMTmtXbWRQN2hwejhTck1XemLPZk5QTysrbHN1b2kxVHRlUG1teUVQbzg4cVB6ZnF4SWg3anBDdEI2Z2JkbXc2RXp0bXd4a2NBUkh4bVPek14Zmk4MNvNqzlMMHjcmE4alhKbnqxa3lkUjAydmLYXC9nZXYYsZhMc1hvbXY2UGdIcmx20Ho2bTNHZ1dxQ1fHTE5ZaWZaQ2lZDZKZEhxUVRrUmQrdzPNTNybfVIUkdmVFVtzd1WUDBU0NR4V2NEMHdqefpsS3o2eWlxUThwQzQ5UW1FaWp1M3U2cTz0MUFzdG5zelBj0CtZUHF2XC9wSHdrd3U2YkkweHVdczF2cUhLS2ZWyml1U1v1Szg1M09uSW9CcW94cUZHbE9NUT09IiwiY3VzdG9tZXJfdg9rZW4i0iJvc0c4Tk84WkxBU085Nk9HuE13Z1BQQnzsmh1R0x5URcl0Q2UzNocHdSdjJ0UGWra3cwaytkZGY2VzFWc0t0Nth1UUUpBYXjMz1lwvYZA1NK5RUTBtaFpZY2d4dkQwN1RaZFVQSGtN1h0SzvhbjNvEddTaVJQn1NDNDZMdVYxtDj0TWt6NFFqOElUy1tTKrZ1A3R1ZMc0NFzBtU1TMx2TmRzYjRnTWJGVFZc1jLMTJE2JqWnlUxcUR3WmVvVTAriWWVidGZHQ0prSmZyUThsM0VtUHhvcmxoSXFnTjkrm1wbmdUZzJ5d2KRkg1SzmTEZKZGwakxFMLbiau5RY1R2cW5NrmuaUtlZkrJWWdjb0F3TmZon2x5ZEtad3hUWUEra1FFMmRhK3FSMjhYYksyK1p5WnBodG1yULQ5TTgrQU9PR2MzXC9RPT01LCjzY29wZXMi0ldfQ.SszY9LjPLUMKAJ-u7hM-6aCtib7iqp2E99Tlm7KQXkeeSNR5NI1n0V64Thcpr-mm_rioiAb9gdaTsKvxuBSj1vvvzKAMivkyQRinhCVxj0j_2s6p4J0SSo0hm8kpdkH6ftvB8klHqzmlnvRPGyqvj1KN_tgvg3t8b-u-f_yy0, request-channel=Android, connection=keep-alive, user-agent=okhttp/3.14.1, app-version=2.10.0, host=192.168.100.216:8888, accept-language=en, accept-encoding=gzip}]
Matched on QUERY [{}]
WITH []
Found a match after 3 milliseconds URL [/me]
Caching the found match for URL [/me]
[14:12:45] <- 200 [/me] OK
[14:12:46] -> GET [/category]
Failed to match on URL [/oauth2/token] WITH [/category]
Failed to match on URL [/config] WITH [/category]
```

Reference

- <https://github.com/azagniotov/stubby4j#request>
- <https://libraries.io/github/azagniotov/stubby4j>
- <http://www.somkiat.cc/stub-http-server-stubby4j/>
- <https://nimblehq.postman.co/collections/6401459-b6c0c172-b67b-4942-b263-0e4cac21dc5e?version=latest&workspace=1a64dd4c-d1fb-4dob-a302-f1cef83347f4#b66358b1-f738-475d-9808-9388fdda137d>



Make sure you communicate with
the API team so you know what the
response looks like

Thanks!

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