

SPRAWOZDANIE

Zajęcia: Informatyczne Systemy Medyczne

Prowadzący: prof. dr hab. Vasyl Martsenyuk

Laboratorium: 2

Data: 21.10.2020

Temat: „Podstawy OpenMRS SDK”

Wariant: -

Jacek Adamczyk

Informatyka II stopień,

Stacjonarne,

2 semestr,

Gr. B

<https://github.com/jacekaGIT/ATH-1g>

1. Polecenia:

Zadanie 1. Zadanie dotyczy tworzenia kilka instancji serwerów OpenMRS.

Zadanie 2. Zadanie dotyczy tworzenia projektu OpenMRS z archetypu.

Zadanie 3. Zadanie dotyczy rozwijania projektu na serwerze OpenMRS.

Zadanie 4. Zadanie dotyczy budowania na serwerach OpenMRS wszystkich projektów.

References

[1] , a. Openmrs sdk - documentation - openmrs wiki.

<https://wiki.openmrs.org/display/docs/OpenMRS+SDK>

(Accessed on 10/21/2020).

Preprint submitted to Elsevier October 21, 2020

[2] , b. Openmrs sdk - documentation - openmrs wiki.

<https://wiki.openmrs.org/display/docs/OpenMRS+SDKOpenMRSSDK-Documentation>

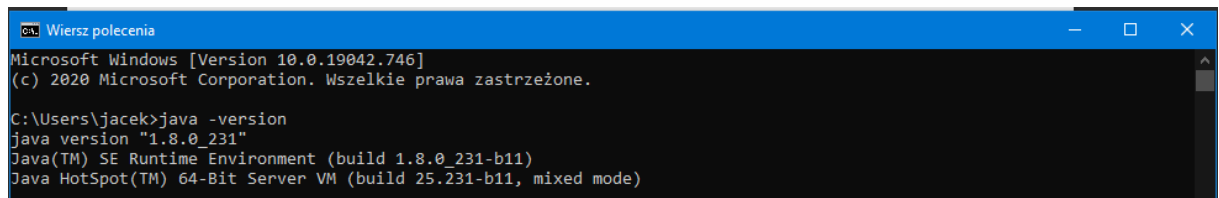
(Accessed on 10/21/2020).

2. Wprowadzane dane:

- Komedy z konsoli
- Zmienne środowiskowe
-

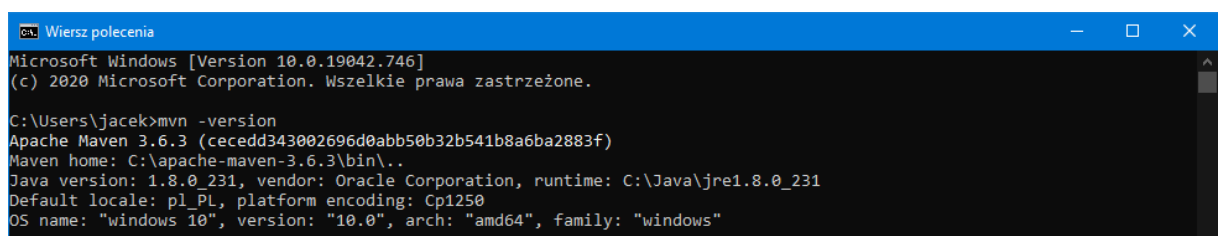
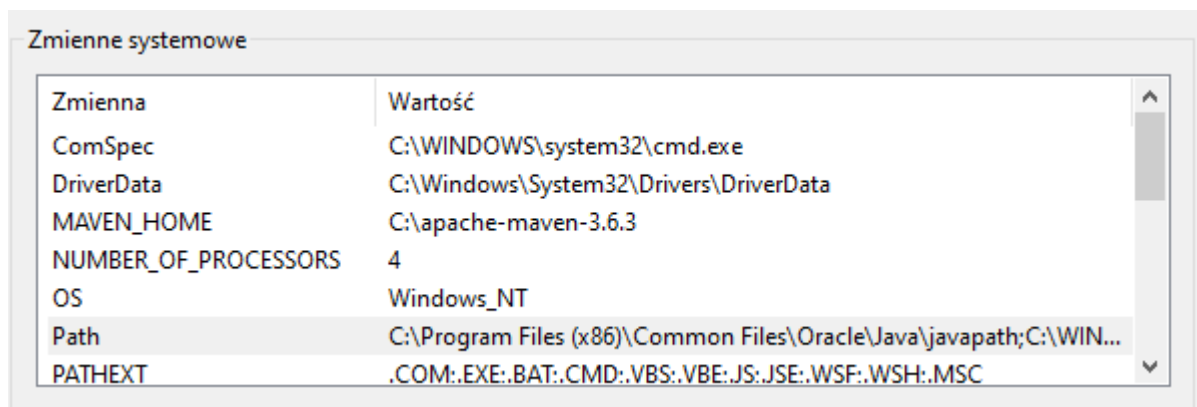
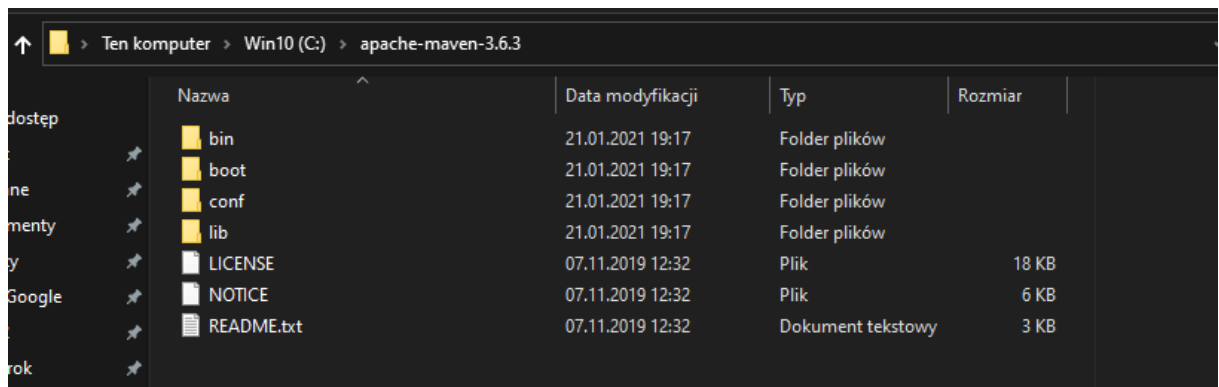
3. Komendy, wyniki działania, zrzuty ekranu:

3.1. Sprawdzenie instalacji „Java”. Instalacja „Maven”. Ustawienie zmiennych środowiskowych.



```
Microsoft Windows [Version 10.0.19042.746]
(c) 2020 Microsoft Corporation. Wszelkie prawa zastrzeżone.

C:\Users\jacek>java -version
java version "1.8.0_231"
Java(TM) SE Runtime Environment (build 1.8.0_231-b11)
Java HotSpot(TM) 64-Bit Server VM (build 25.231-b11, mixed mode)
```



```
Microsoft Windows [Version 10.0.19042.746]
(c) 2020 Microsoft Corporation. Wszelkie prawa zastrzeżone.

C:\Users\jacek>mvn -version
Apache Maven 3.6.3 (cecedd343002696d0abb50b32b541b8a6ba2883f)
Maven home: C:\apache-maven-3.6.3\bin\..
Java version: 1.8.0_231, vendor: Oracle Corporation, runtime: C:\Java\jre1.8.0_231
Default locale: pl_PL, platform encoding: Cp1250
OS name: "windows 10", version: "10.0", arch: "amd64", family: "windows"
```

3.2. Instalacja SDK.

`mvn org.openmrs.maven.plugins:openmrs-sdk-maven-plugin:setup-sdk`

```
Wiersz polecenia - mvn org.openmrs.maven.plugins:openmrs-sdk-maven-plugin:setup-sdk
B/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/mybatis/mybatis-parent/21/mybatis-parent-21.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/mybatis/mybatis-parent/21/mybatis-parent-21.pom (28 kB
at 216 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/com/atlassian/jira/jira-rest-java-client/2.0.0-m2/jira-re
st-java-client-2.0.0-m2.pom
Downloading from jgit-repository: https://repo.eclipse.org/content/groups/releases/com/atlassian/jira/jira-rest-java-cli
ent/2.0.0-m2/jira-rest-java-client-2.0.0-m2.pom
Downloading from openmrs-repo: http://mavenrepo.openmrs.org/nexus/content/repositories/public/com/atlassian/jira/jira-re
st-java-client/2.0.0-m2/jira-rest-java-client-2.0.0-m2.pom
Downloaded from openmrs-repo: http://mavenrepo.openmrs.org/nexus/content/repositories/public/org/apache/httpcomponents/h
ttpclient-cache/4.2.1-atlassian-2/httpclient-cache-4.2.1-atlassian-2.jar (115 kB at 36 kB/s)
Downloaded from openmrs-repo: http://mavenrepo.openmrs.org/nexus/content/repositories/public/com/atlassian/util/concurre
nt/atlassian-util-concurrent/2.4.0-M9/atlassian-util-concurrent-2.4.0-M9.jar (133 kB at 40 kB/s)

Would you be willing to help us improve SDK by sending us once in a while anonymous usage statistics (you can always cha
nge your mind by going to sdk-stats.properties and setting statsEnabled to false) [Y/n]: n
[INFO] SDK installed successfully, settings file: C:\Users\jacek\.m2\settings.xml
[INFO] Now you can use sdk: mvn openmrs-sdk:<task name>
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 02:32 min
[INFO] Finished at: 2021-01-21T20:00:00+01:00
[INFO] -----
```

`mvn openmrs-sdk:help`

```
usage: info
Description: Display server details including the list of watched modules.
  -DserverId          Unique id of a server.

[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 59.479 s
[INFO] Finished at: 2021-01-21T20:08:31+01:00
[INFO] -----
```

3.3. Zadanie 1. Tworzenie kilku instancji serwerów.

mvn openmrs-sdk:setup -DserverId=webservices-dev -Dplatform=2.0.0

```
C:\Users\jacek>mvn openmrs-sdk:setup -DserverId=webservices-dev -Dplatform=2.0.0
[INFO] Scanning for projects...
[INFO]
[INFO] -----< org.apache.maven:standalone-pom >-----
[INFO] Building Maven Stub Project (No POM) 1
[INFO] -----[ pom ]-----
[INFO] --- openmrs-sdk-maven-plugin:3.13.6:setup (default-cli) @ standalone-pom ---
Setting up a new server...
[INFO] artifact org.openmrs.distro:platform: checking for updates from openmrs-repo
[INFO] artifact org.openmrs.distro:platform: checking for updates from openmrs-repo-thirdparty
[INFO] artifact org.openmrs.distro:platform: checking for updates from openmrs-bintray-repo
[INFO] artifact org.openmrs.distro:platform: checking for updates from central
Downloading from openmrs-repo: http://mavenrepo.openmrs.org/nexus/content/repositories/public/org/apache/maven/maven-artifact/2.0.9/maven-artifact-2.0.9.pom
Downloaded from openmrs-repo: http://mavenrepo.openmrs.org/nexus/content/repositories/public/org/apache/maven/maven-artifact/2.0.9/maven-artifact-2.0.9.pom
```

```
[INFO] Copying openmrs-webapp-2.0.0.war to C:\Users\jacek\openmrs\webservices-dev\openmrs-2.0.0.war
What port would you like your server to use? (default: '8080'): 8080
```

```
Which database would you like to use?:
1) H2
2) MySQL 5.6 (requires pre-installed MySQL 5.6)
3) MySQL 5.6 in SDK docker container (requires pre-installed Docker)
4) Existing docker container (requires pre-installed Docker)
Which one do you choose? [1/2/3/4]:
```

```
Which one do you choose? [1/2/3/4]: 1
[INFO] Configured Artifact: com.h2database:h2:1.4.190:jar
[INFO] Copying h2-1.4.190.jar to C:\Users\jacek\openmrs\webservices-dev\h2-1.4.190.jar
The specified database openmrs-webservices-dev does not exist and it will be created for you.
Note: JDK 1.8 is needed for platform version 2.0.0.
Which JDK would you like to use to run this server?:
1) JAVA_HOME (currently: C:\Java\jre1.8.0_231)
2) Other...
Which one do you choose? [1/2]:
```

```
Which one do you choose? [1/2]: 1
[INFO] Server configured successfully, path: C:\Users\jacek\openmrs\webservices-dev
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 10:22 min
[INFO] Finished at: 2021-01-21T20:44:43+01:00
[INFO] -----
```

```
C:\Users\jacek>mvn openmrs-sdk:run
[INFO] Scanning for projects...
[INFO]
[INFO] -----< org.apache.maven:standalone-pom >-----
[INFO] Building Maven Stub Project (No POM) 1
[INFO] -----[ pom ]-----
[INFO] --- openmrs-sdk-maven-plugin:3.13.6:run (default-cli) @ standalone-pom ---
You have the following servers::
1) webservices-dev
Which one do you choose? [1]:
```

Kilka instancji

`mvn openmrs-sdk:setup -DserverId=serwer333-dev -Dplatform=2.0.0`

```
Wiersz polecenia - mvn openmrs-sdk:setup -DserverId=serwer333-dev -Dplatform=2.0.0
C:\Users\jacek>mvn openmrs-sdk:setup -DserverId=serwer333-dev -Dplatform=2.0.0
[INFO] Scanning for projects...
[INFO] -----< org.apache.maven:standalone-pom >-----
[INFO] Building Maven Stub Project (No POM) 1
[INFO] -----[ pom ]-----
[INFO] --- openmrs-sdk-maven-plugin:3.13.6:setup (default-cli) @ standalone-pom ---
Setting up a new server...
[INFO] Configured Artifact: org.openmrs.distro:platform:2.0.0:jar
[INFO] Fetching openmrs war file in version 2.0.0
[INFO] Configured Artifact: org.openmrs.web:openmrs-webapp:2.0.0:war
[INFO] Copying openmrs-webapp-2.0.0.war to C:\Users\jacek\openmrs\serwer333-dev\openmrs-2.0.0.war
What port would you like your server to use? (default: '8080'):
```

```
Which database would you like to use?:
1) H2
2) MySQL 5.6 (requires pre-installed MySQL 5.6)
3) MySQL 5.6 in SDK docker container (requires pre-installed Docker)
4) Existing docker container (requires pre-installed Docker)

Which one do you choose? [1/2/3/4]: 1
[INFO] Configured Artifact: com.h2database:h2:1.4.190:jar
[INFO] Copying h2-1.4.190.jar to C:\Users\jacek\openmrs\serwer333-dev\h2-1.4.190.jar

The specified database openmrs-serwer333-dev does not exist and it will be created for you.

Note: JDK 1.8 is needed for platform version 2.0.0.

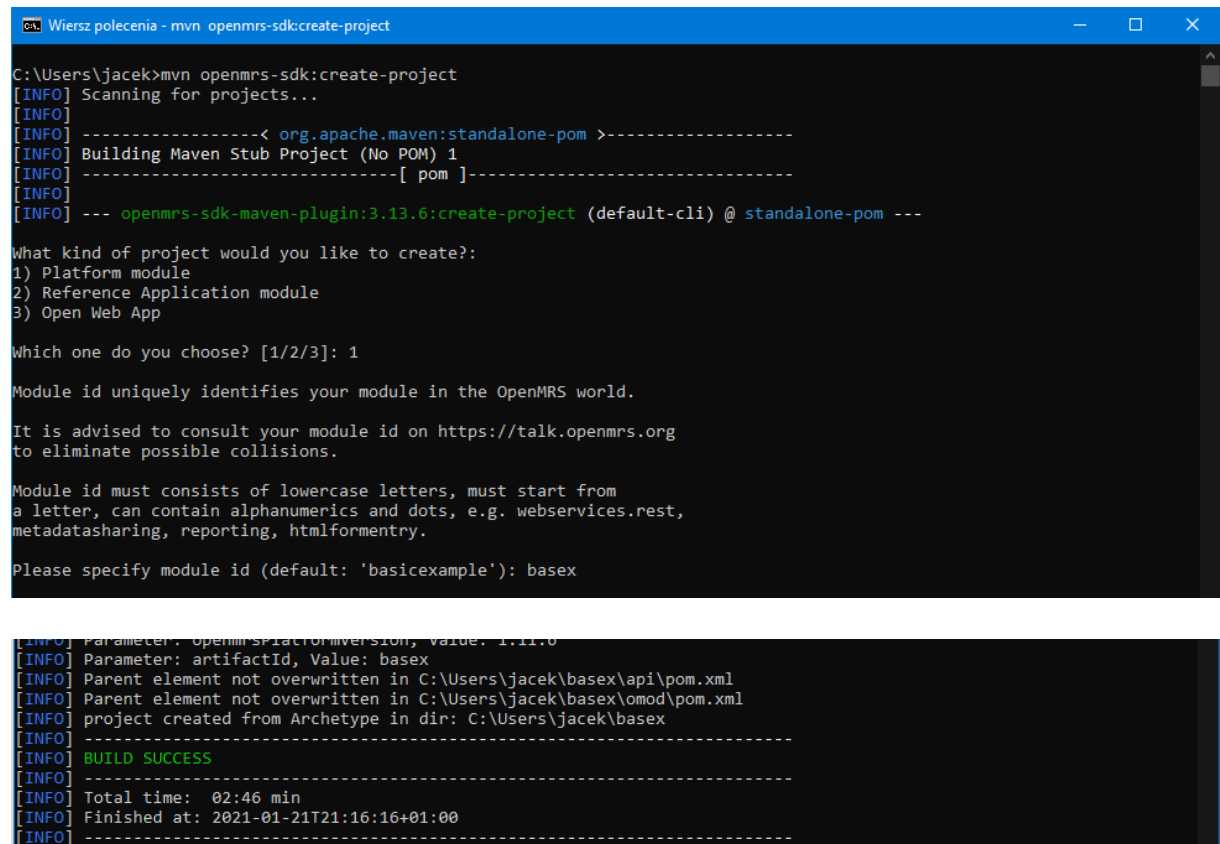
Which JDK would you like to use to run this server?:
1) JAVA_HOME (currently: C:\Java\jre1.8.0_231)
2) Other...

Which one do you choose? [1/2]: 1
[INFO] Server configured successfully, path: C:\Users\jacek\openmrs\serwer333-dev
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 01:06 min
[INFO] Finished at: 2021-01-21T21:05:38+01:00
[INFO] -----
```

```
C:\Users\jacek>mvn openmrs-sdk:run
[INFO] Scanning for projects...
[INFO] -----< org.apache.maven:standalone-pom >-----
[INFO] Building Maven Stub Project (No POM) 1
[INFO] -----[ pom ]-----
[INFO] --- openmrs-sdk-maven-plugin:3.13.6:run (default-cli) @ standalone-pom ---
You have the following servers::
1) serwer333-dev
2) webservices-dev
Which one do you choose? [1/2]:
```

3.4. Zadanie 2. Tworzenie projektu z archetypu.

`mvn openmrs-sdk:create-project`



```
Wiersz polecenia - mvn openmrs-sdk:create-project

C:\Users\jacek>mvn openmrs-sdk:create-project
[INFO] Scanning for projects...
[INFO]
[INFO] -----< org.apache.maven:standalone-pom >-----
[INFO] Building Maven Stub Project (No POM) 1
[INFO] -----[ pom ]-----
[INFO]
[INFO] --- openmrs-sdk-maven-plugin:3.13.6:create-project (default-cli) @ standalone-pom ---

What kind of project would you like to create?:
1) Platform module
2) Reference Application module
3) Open Web App

Which one do you choose? [1/2/3]: 1

Module id uniquely identifies your module in the OpenMRS world.

It is advised to consult your module id on https://talk.openmrs.org
to eliminate possible collisions.

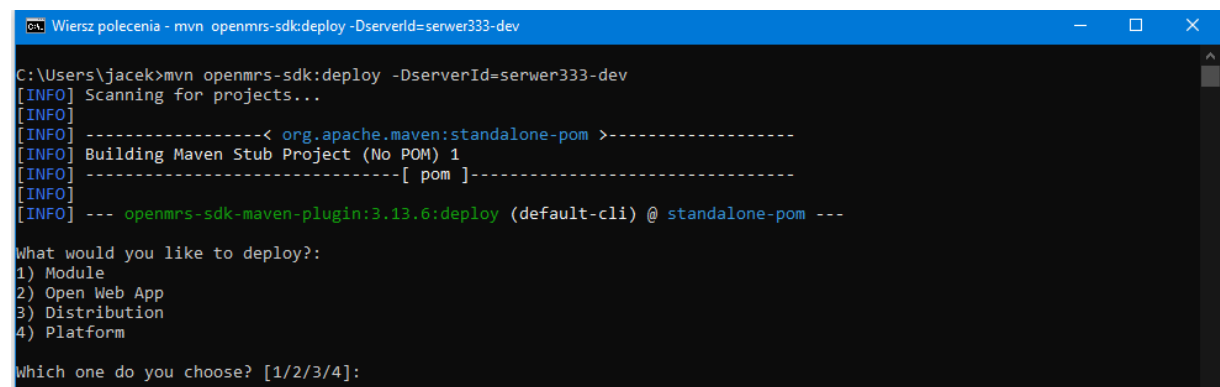
Module id must consists of lowercase letters, must start from
a letter, can contain alphanumerics and dots, e.g. webservicess.rest,
metadatasharing, reporting, htmlformentry.

Please specify module id (default: 'basicexample'): basex

[INFO] Parameter: openmrsPlatformVersion, value: 1.11.0
[INFO] Parameter: artifactId, Value: basex
[INFO] Parent element not overwritten in C:\Users\jacek\basex\api\pom.xml
[INFO] Parent element not overwritten in C:\Users\jacek\basex\omod\pom.xml
[INFO] project created from Archetype in dir: C:\Users\jacek\basex
[INFO]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 02:46 min
[INFO] Finished at: 2021-01-21T21:16:16+01:00
[INFO] -----
```

3.5. Zadanie 3. Rozwijanie projektu.

`mvn openmrs-sdk:deploy -DserverId=serwer333-dev`



```
Wiersz polecenia - mvn openmrs-sdk:deploy -DserverId=serwer333-dev

C:\Users\jacek>mvn openmrs-sdk:deploy -DserverId=serwer333-dev
[INFO] Scanning for projects...
[INFO]
[INFO] -----< org.apache.maven:standalone-pom >-----
[INFO] Building Maven Stub Project (No POM) 1
[INFO] -----[ pom ]-----
[INFO]
[INFO] --- openmrs-sdk-maven-plugin:3.13.6:deploy (default-cli) @ standalone-pom ---

What would you like to deploy?:
1) Module
2) Open Web App
3) Distribution
4) Platform

Which one do you choose? [1/2/3/4]:
```

```

Which one do you choose? [1/2/3/4]: 4

The server currently has the OpenMRS platform in version 2.0.0 installed.

You can deploy the following versions of a platform:
1) 2.5.0-SNAPSHOT
2) 2.4.0
3) 2.3.2
4) Other...

Which one do you choose? [1/2/3/4]:

```

```

The server333-dev 1.0 introduces the following changes:
^ Updates openmrs-webapp 2.0.0 to 2.5.0-SNAPSHOT
+ Adds webservices.rest-omod 2.29.0
+ Adds fhir2-omod 1.1.0
+ Adds owa-omod 1.12.0

Would you like to apply those changes to 'server333-dev'? [Y/n]:

```

```

[INFO] Copying fhir2-omod-1.1.0.jar to C:\Users\jacek\openmrs\server333-dev\modules\fhir2-1.1.0.omod
[INFO] Copying owa-omod-1.12.0.jar to C:\Users\jacek\openmrs\server333-dev\modules\owa-1.12.0.omod
[INFO] Server upgraded successfully
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 06:49 min
[INFO] Finished at: 2021-01-21T21:30:28+01:00
[INFO] -----

```

3.6. Budowanie projektów.

mvn openmrs-sdk:build

```

Wiersz polecenia - mvn openmrs-sdk:build

C:\Users\jacek>mvn openmrs-sdk:build
[INFO] Scanning for projects...
[INFO] -----< org.apache.maven:standalone-pom >-----
[INFO] Building Maven Stub Project (No POM) 1
[INFO] -----[ pom ]-----
[INFO] --- openmrs-sdk-maven-plugin:3.13.6:build (default-cli) @ standalone-pom ---

You have the following servers::
1) server333-dev
2) webservices-dev

Which one do you choose? [1/2]:

```

```

[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 4.782 s
[INFO] Finished at: 2021-01-21T21:33:20+01:00
[INFO] -----

```


4. Wnioski:

Wszystkie polecenia zadania zostały wykonane pomyślnie.

End Lab