

SPRAWOZDANIE

Zajęcia: Informatyczne Systemy Medyczne
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Laboratorium: Zajęcie 3

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Temat: „Instalacja i użycie modułów OpenMRS SDK”

Wariant 7

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<https://github.com/SzPeczalski/ISM>

Cel ćwiczenia: Umiejętność instalacji oraz użycia modułów OpenMRS SDK

1. Klonowanie modułu przez git:

```
Microsoft Windows [Version 10.0.18363.1139]
(c) 2019 Microsoft Corporation. Wszelkie prawa zastrzeżone.

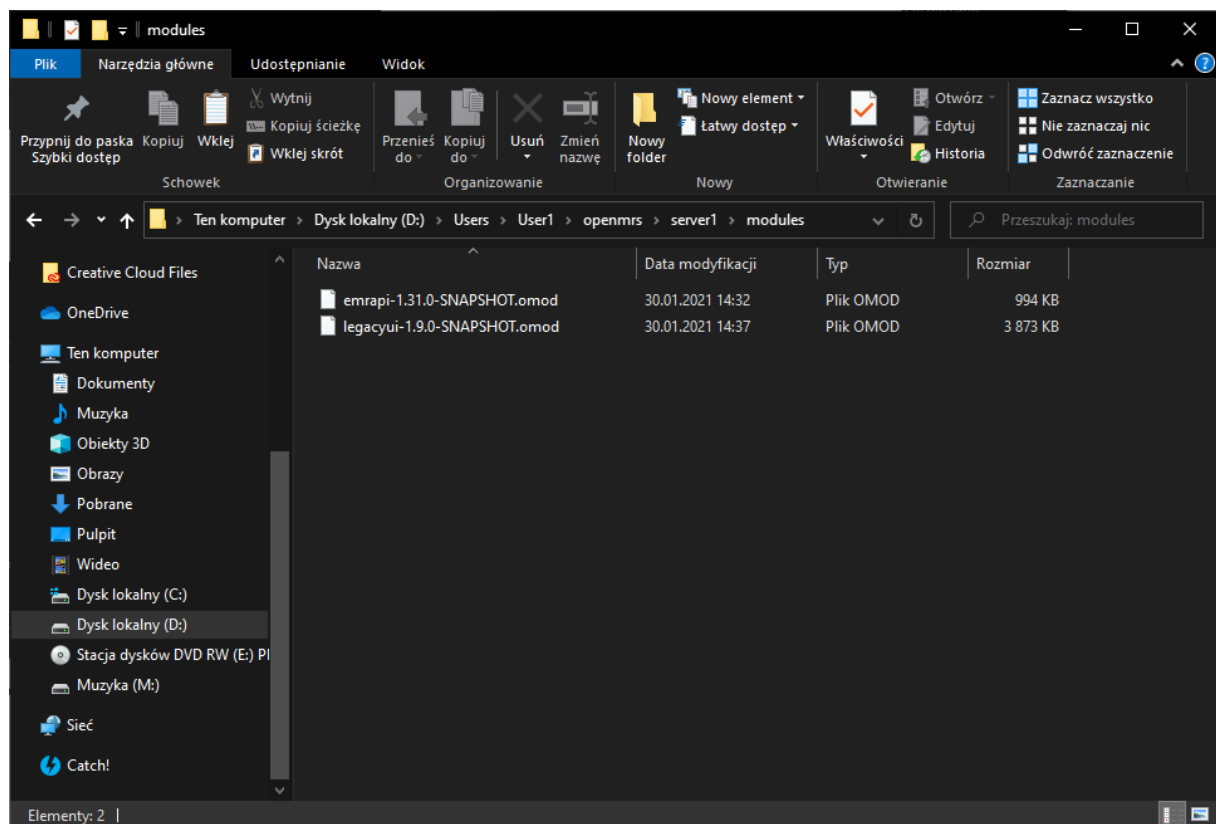
d:\Users\User1>git clone https://github.com/openmrs/openmrs-module-emrapi.git
Cloning into 'openmrs-module-emrapi'...
remote: Enumerating objects: 202, done.
remote: Counting objects: 100% (202/202), done.
remote: Compressing objects: 100% (121/121), done.
remote: Total 16092 (delta 50), reused 170 (delta 30), pack-reused 15890
Receiving objects: 100% (16092/16092), 2.65 MiB | 5.11 MiB/s, done.
Resolving deltas: 100% (4507/4507), done.
```

2. Budowa modułu:

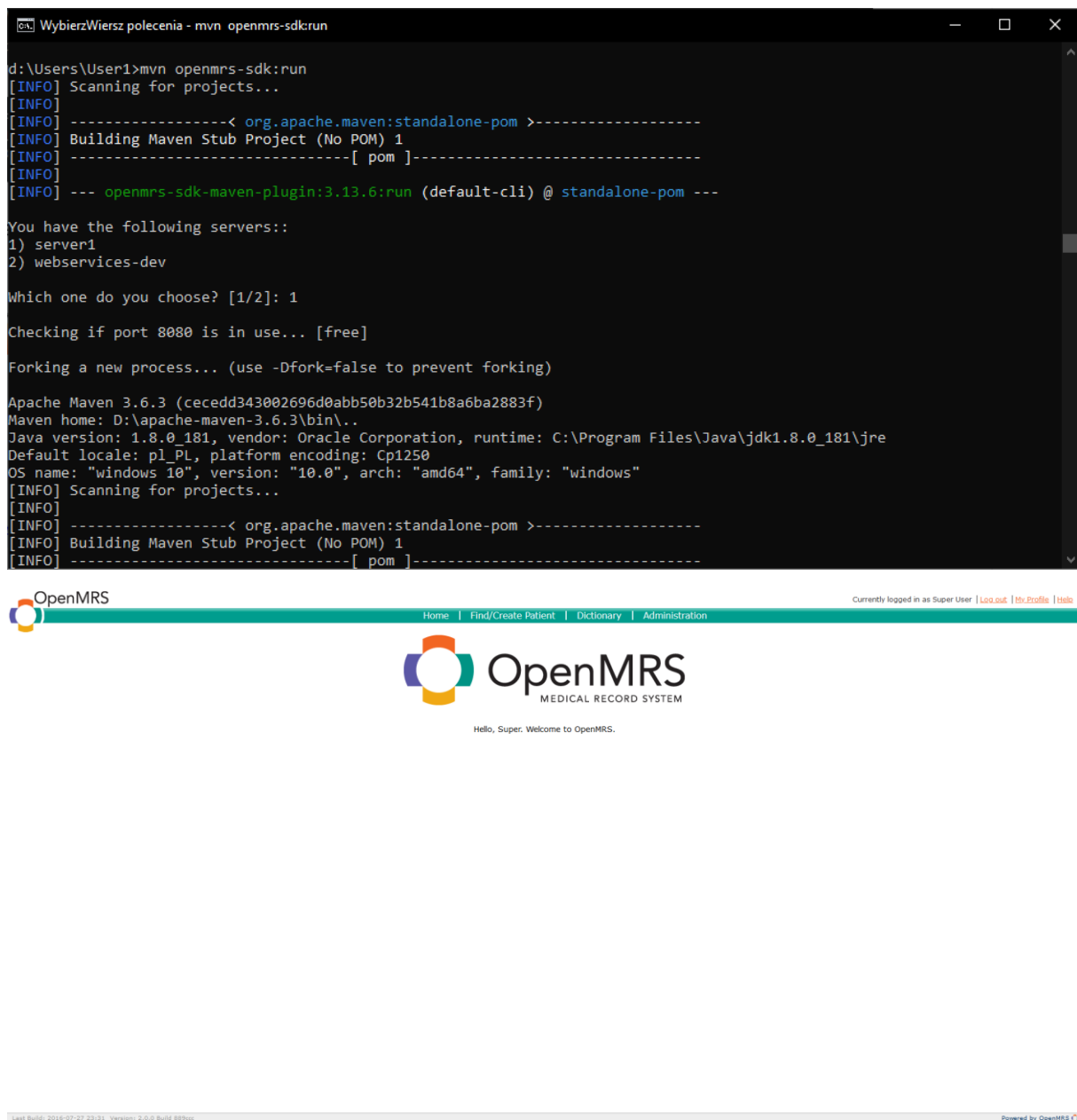
```
d:\Users\User1>cd openmrs-module-emrapi

d:\Users\User1\openmrs-module-emrapi>mvn clean install
[INFO] Scanning for projects...
[WARNING]
[WARNING] Some problems were encountered while building the effective model for org.openmrs.module:emrapi-fhir-condition
:jar:1.31.0-SNAPSHOT
[WARNING] 'build.plugins.plugin.version' for org.apache.maven.plugins:maven-compiler-plugin is missing. @ line 57, column
21
[WARNING]
[WARNING] It is highly recommended to fix these problems because they threaten the stability of your build.
[WARNING]
[WARNING] For this reason, future Maven versions might no longer support building such malformed projects.
[WARNING]
[INFO] -----
[INFO] Reactor Build Order:
[INFO]
[INFO] EMR-ART Module [pom]
```

3. Skopiowanie modułu do folderu:



4. Uruchomienie OpenMRS:



The image shows a terminal window at the top and the OpenMRS web application interface below it.

Terminal Window:

```
WybierzWiersz polecenia - mvn openmrs-sdk:run
d:\Users\User1>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) server1
2) webservices-dev

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

Checking if port 8080 is in use... [free]

Forking a new process... (use -Dfork=false to prevent forking)

Apache Maven 3.6.3 (cecedd343002696d0abb50b32b541b8a6ba2883f)
Maven home: D:\apache-maven-3.6.3\bin\..
Java version: 1.8.0_181, vendor: Oracle Corporation, runtime: C:\Program Files\Java\jdk1.8.0_181\jre
Default locale: pl_PL, platform encoding: Cp1250
OS name: "windows 10", version: "10.0", arch: "amd64", family: "windows"
[INFO] Scanning for projects...
[INFO] -----< org.apache.maven:standalone-pom >-----
[INFO] Building Maven Stub Project (No POM) 1
[INFO] -----[ pom ]-----
```

OpenMRS Web Interface:

The web interface shows the OpenMRS logo and navigation links: Home, Find/Create Patient, Dictionary, Administration. The user is logged in as Super User. The main content area displays the OpenMRS logo and the text "MEDICAL RECORD SYSTEM" and "Hello, Super. Welcome to OpenMRS."

Footer: Last Build: 2018-07-27 23:31 Version: 2.0.0 Build 8890c Powered by OpenMRS

5. Moduł został wgrany prawidłowo, jednak niemożliwe było jego otworzenie bez instalacji dodatkowych modułów.

add or upgrade module

check for updates

... SORT ALL

| Manage Modules | | | | |
|----------------|--|-----------------|--------------------|--|
| Action | Name | Version | Author | Description |
| | Serialization Xstream | 0.2.14 | luzhuangwei | Core (de)serialize API and services supported by xstream library... |
| | Reporting [Not Started] | 1.21.0 | Partners In Health | The Reporting Module provides a user interface for defining and managing core objects like reports, data sets, cohort queries, indicators, dimensions, and report designs. The module also provid... |
| | Metadata Sharing | 1.7.0 | Rafal Korytkowski | Allows all kinds of metadata (concepts, locations, roles etc.) to be exchanged between different OpenMRS installations.... |
| | ID Generation [Not Started] | 4.6.0 | Partners In Health | Identifier auto-generation and allocation functionality. See http://openmrs.org/wiki/Idgen_Module for more information... |
| | Event Module | 2.8.0 | OpenMRS | Provides a dev friendly event notifying mechanism... |
| | Core Apps Module [Not Started] | 1.31.0 | OpenMRS Developers | Provides apps for performing the common tasks... |
| | EMR API Module [Not Started] | 1.31.0-SNAPSHOT | OpenMRS | Higher-level APIs to support building EMR functionality in OpenMRS, to supplement the data-level APIs in the OpenMRS core.... |
| | Provider Management Module | 2.12.0 | Mark Goodrich | Allows for the creation of provider roles, as well as the management of provider/provider and provider/patient relationships... |
| | Calculation | 1.2.1 | OpenMRS developers | Provides a framework for OpenMRS developers to author simple or complex calculations to produce a particular piece of data for a single patient or a cohort of patients... |
| | App Framework Module | 2.16.0 | djzayeri | Framework supporting the idea of self-contained apps that you can see on your homepage.... |
| | Reference Metadata Module [Not Started] | 2.11.0 | OpenMRS | Metadata for the Reference Application... |
| | Metadata Mapping | 1.3.5 | Rafal Korytkowski | ... |
| | UI Commons Module | 2.16.0 | OpenMRS | UI Common Library that has common JS/CSS/HTML/templates/fragments etc.... |
| | App UI Module | 1.13.0 | OpenMRS | Support for using the App Framework's context in the UI Framework... |
| | OpenMRS UI Framework | 3.20.0 | OpenMRS | OpenMRS's new custom UI Framework, built on top of Spring MVC, and leveraging Groovy templates for views.... |
| | Rest Web Services OMOD | 2.29.0.b675eb | OpenMRS | Publishes Rest Web Services exposing the OpenMRS API... |
| | Metadata Deploy | 1.12.1 | 1-TECH | Metadata deployment support... |
| | Legacy UI Module | 1.9.0-SNAPSHOT | Tharunya | Provides the legacy UI which was removed from the platform since version 2.0... |
| | Data Exchange Module | 1.3.6 | Rafal Korytkowski | Enables exchanging data and metadata between OpenMRS installations... |
| | UI Library Module | 2.0.6 | djzayeri | Library of useful widgets, decorators, and fragments for the UI Framework module... |
| | HTML Widgets | 1.10.0 | Partners In Health | HTML Form widget library... |

Module Help

- A module is loaded into OpenMRS by either 1) dropping it into the module repository and restarting the webapp, or 2) uploading via the form above.
- When a module is unloaded, it is first 'stopped', then the omod file is removed from the repository.
- A loaded module can be stopped and started. A stopped module is still loaded, it just doesn't have any effect on the system
- In order to update a module, either click 'Install Update' or: 1) Download the update, 2) upload the new module via the form 'Upgrade An Existing Module' form above.
- Find and download more modules in the [OpenMRS Module Repository](#).

Last Build: 2016-07-27 23:31, Version: 2.0.0 Build 889rc

Powered by OpenMRS

6. Niestety przy wgrywaniu modułów **Reporting** oraz **ID Generation** wystąpił błąd uniemożliwiający uruchomienie modułu **EMR Api**.

Error starting Module - Reporting

```
Error while trying to start module
Unable to update data model using liquibase.xml. Module: Reporting
```

Error starting Module - ID Generation

```
Error while trying to start module
Unable to update data model using liquibase.xml. Module: ID Generation
```

Wnioski:

- Moduł EMR API wymagał doinstalowania dodatkowych modułów, podczas prac w tej kwestii napotkano błąd związany z użytą bazą danych (H2). W związku z tym podjęto decyzję o przerwaniu zadania na wgraniu modułu oraz instalacji dodatkowych modułów bez uruchamiania go.