## CI-1 - Create Maven build for the Sports Betting application

**Conversation**

“Mavenize” you application. Separate your application into two modules, and use a parent module to build them together.

Project names should be the following:

Parent: sports-betting-application

Domain model: sports-betting-application-domain

Application logic: sports-betting-application-app

sports-betting-application-app project should be built as an **executable** JAR file, therefore dependencies have to be added to the JAR file. To achieve this, maven-assembly-plugin should be used. Please add the following content to its pom.xml in the <build> section:

**pom.xml - create executable JAR file**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25 | <plugins>      <plugin>          <groupId>org.apache.maven.plugins</groupId>          <artifactId>maven-assembly-plugin</artifactId>          <configuration>              <descriptorRefs>                  <descriptorRef>jar-with-dependencies</descriptorRef>              </descriptorRefs>              <archive>                  <manifest>                      <mainClass>com.epam.training.sportbetting.App</mainClass>                  </manifest>              </archive>          </configuration>          <executions>              <execution>                  <id>make-assembly</id> <!-- this is used for inheritance merges -->                  <phase>package</phase> <!-- bind to the packaging phase -->                  <goals>                      <goal>single</goal>                  </goals>              </execution>          </executions>      </plugin>  </plugins> |

**Confirmation**

Maven projects are created

Project can be built with mvn clean install

After the build a JAR file is available in the target folder, that can be run with the command java –jar filename.jar

## CI-2 - Configure a job on a CI server for the Sports Betting application

**Conversation**

This virtual machine is installed with the following features:

JDK

Maven

Jenkins Server

Nexus

Hints

[How to Setup Git Repository and Credentials for Jenkins Jobs](https://www.thegeekstuff.com/2016/10/jenkins-git-setup/)

Maven config file for Jenkins:  /var/lib/jenkins/.m2/settings.xml (should be created), authentication of Nexus should be put here.

Documentation and usage of VM can be found here:

<https://kb.epam.com/display/RD/Vagrant+CI+server+setup>

Complete the following tasks:

Configure the CI server to build projects after code changes (hint: use Poll SCM)

Deploy the created artifacts to the snapshot repository

**Confirmation**

Jenkins job created

Jenkins job runs after every change in the code

Artifact deployed to Nexus, it can be downloaded.

The runnable artifact can be downloaded and started with the following command:

java -jar filename.jar