

Deliverable #1

The Boyoz

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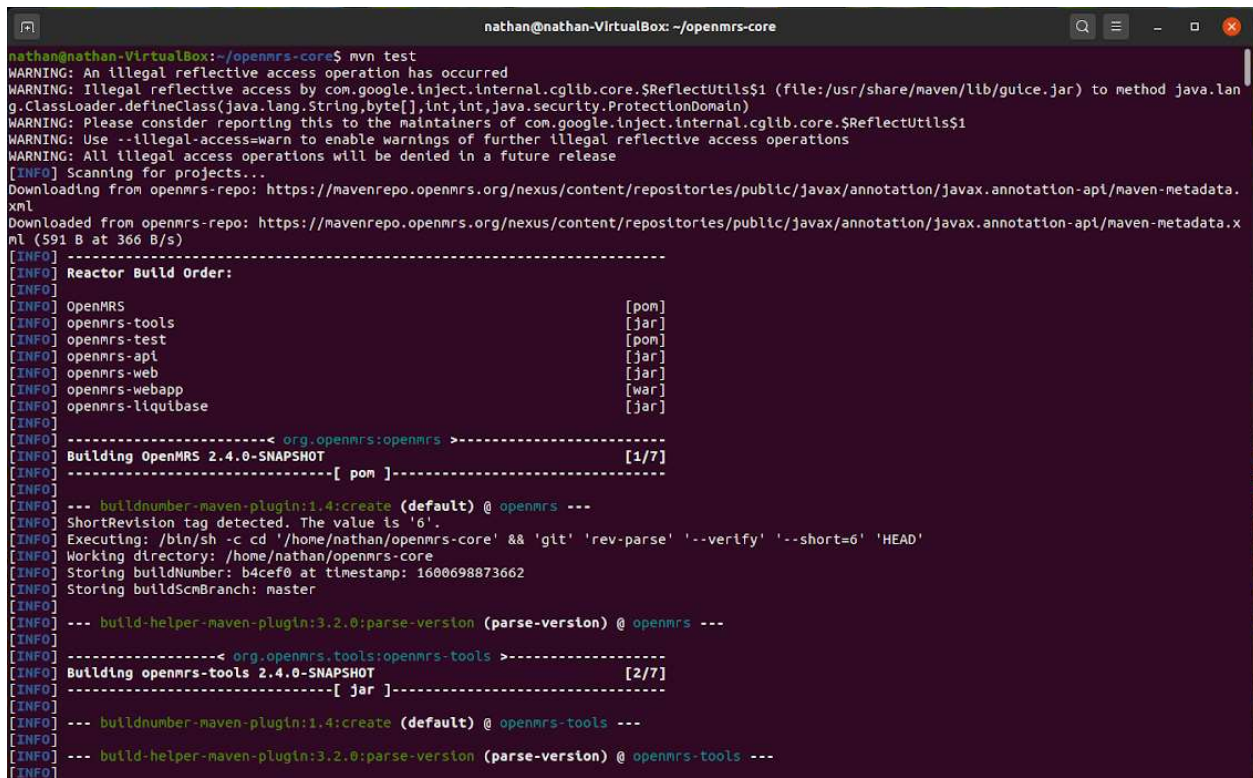
Logan Sitar

Paul Joseph

Run existing tests and collect results. Evaluate experience and project so far.

Testing: After cloning and building the project the testing process with maven is really simple. Typing “mvn test” as seen in the first image starts the process of running every test in the application. The second image shows what the terminal outputs during testing. At the end of testing, as shown in the third image, it outputs a summary of all of the testing that went on, including how long each testing section took and whether or not the tests were successful.

Starting the testing process:



```
nathan@nathan-VirtualBox: ~/openmrs-core
nathan@nathan-VirtualBox:~/openmrs-core$ mvn test
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.google.inject.internal.cglib.core.$ReflectUtils$1 (file:/usr/share/maven/lib/guice.jar) to method java.lang.ClassLoader.defineClass(java.lang.String,byte[],int,int,java.security.ProtectionDomain)
WARNING: Please consider reporting this to the maintainers of com.google.inject.internal.cglib.core.$ReflectUtils$1
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
[INFO] Scanning for projects...
Downloading from openmrs-repo: https://mavenrepo.openmrs.org/nexus/content/repositories/public/javax/annotation/javax.annotation-api/maven-metadata.xml
Downloaded from openmrs-repo: https://mavenrepo.openmrs.org/nexus/content/repositories/public/javax/annotation/javax.annotation-api/maven-metadata.xml (591 B at 366 B/s)
[INFO] -----
[INFO] Reactor Build Order:
[INFO]
[INFO] OpenMRS [pom]
[INFO] openmrs-tools [jar]
[INFO] openmrs-test [pom]
[INFO] openmrs-api [jar]
[INFO] openmrs-web [jar]
[INFO] openmrs-webapp [war]
[INFO] openmrs-liquibase [jar]
[INFO]
[INFO] -----< org.openmrs:openmrs >-----
[INFO] Building OpenMRS 2.4.0-SNAPSHOT [1/7]
[INFO] -----[ pom ]-----
[INFO]
[INFO] --- buildnumber-maven-plugin:1.4:create (default) @ openmrs ---
[INFO] ShortRevision tag detected. The value is '6'.
[INFO] Executing: /bin/sh -c cd '/home/nathan/openmrs-core' && 'git' 'rev-parse' '--verify' '--short=6' 'HEAD'
[INFO] Working directory: /home/nathan/openmrs-core
[INFO] Storing buildNumber: b4cef0 at timestamp: 1600698873662
[INFO] Storing buildScmBranch: master
[INFO]
[INFO] --- build-helper-maven-plugin:3.2.0:parse-version (parse-version) @ openmrs ---
[INFO]
[INFO] -----< org.openmrs.tools:openmrs-tools >-----
[INFO] Building openmrs-tools 2.4.0-SNAPSHOT [2/7]
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- buildnumber-maven-plugin:1.4:create (default) @ openmrs-tools ---
[INFO]
[INFO] --- build-helper-maven-plugin:3.2.0:parse-version (parse-version) @ openmrs-tools ---
[INFO]
```

Example of an individual test running:

```
nathan@nathan-VirtualBox: ~/openmrs-core
[INFO] --- maven-surefire-plugin:2.22.2:test (default-test) @ openmrs-api ---
[INFO]
[INFO] T E S T S
[INFO]
[INFO] Running org.openmrs.AllergiesTest
[INFO] Tests run: 26, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 29.218 s - in org.openmrs.AllergiesTest
[INFO] Running org.openmrs.OrderTest
[INFO] Tests run: 64, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 1.307 s - in org.openmrs.OrderTest
[INFO] Running org.openmrs.EncounterTest
[INFO] Tests run: 63, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 1.402 s - in org.openmrs.EncounterTest
[INFO] Running org.openmrs.ProviderTest
[INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0 s - in org.openmrs.ProviderTest
[INFO] Running org.openmrs.ObsBehaviorTest
[WARN] Tests run: 3, Failures: 0, Errors: 0, Skipped: 1, Time elapsed: 0.061 s - in org.openmrs.ObsBehaviorTest
[INFO] Running org.openmrs.TestOrderTest
[INFO] Tests run: 4, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.002 s - in org.openmrs.TestOrderTest
[INFO] Running org.openmrs.ConceptReferenceTermTest
[INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.002 s - in org.openmrs.ConceptReferenceTermTest
[INFO] Running org.openmrs.annotation.OpenmrsProfileExcludeFilterWithModulesTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 1.049 s - in org.openmrs.annotation.OpenmrsProfileExcludeFilterWithModulesTest
[INFO] Running org.openmrs.annotation.OpenmrsProfileExcludeFilterTest
[WARN] Tests run: 8, Failures: 0, Errors: 0, Skipped: 2, Time elapsed: 2.606 s - in org.openmrs.annotation.OpenmrsProfileExcludeFilterTest
[INFO] Running org.openmrs.annotation.StartModuleAnnotationTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 2.58 s - in org.openmrs.annotation.StartModuleAnnotationTest
[INFO] Running org.openmrs.annotation.StartModuleAnnotationReuseTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 2.292 s - in org.openmrs.annotation.StartModuleAnnotationReuseTest
[INFO] Running org.openmrs.annotation.OpenmrsProfileIncludeFilterTest
[INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 1.997 s - in org.openmrs.annotation.OpenmrsProfileIncludeFilterTest
[INFO] Running org.openmrs.PatientTest
[INFO] Tests run: 9, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.026 s - in org.openmrs.PatientTest
[INFO] Running org.openmrs.UserTest
[INFO] Tests run: 9, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.001 s - in org.openmrs.UserTest
[INFO] Running org.openmrs.BaseCustomizableMetadataTest
[INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 3.255 s - in org.openmrs.BaseCustomizableMetadataTest
[INFO] Running org.openmrs DrugOrderTest
[INFO] Tests run: 22, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.32 s - in org.openmrs DrugOrderTest
[INFO] Running org.openmrs.util.SecurityTest
[INFO] Tests run: 7, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.109 s - in org.openmrs.util.SecurityTest
[INFO] Running org.openmrs.util.ExceptionUtilTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.006 s - in org.openmrs.util.ExceptionUtilTest
[INFO] Running org.openmrs.util.DrugsByNameComparatorTest
```

End of testing output:

```
nathan@nathan-VirtualBox: ~/openmrs-core
[INFO] --- maven-resources-plugin:3.2.0:testResources (default-testResources) @ openmrs-liquibase ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
[INFO] Copying 7 resources
[INFO] --- maven-compiler-plugin:3.8.1:testCompile (default-testCompile) @ openmrs-liquibase ---
[INFO] Nothing to compile - all classes are up to date
[INFO] --- maven-surefire-plugin:2.22.2:test (default-test) @ openmrs-liquibase ---
[INFO]
[INFO] T E S T S
[INFO]
[INFO] Running org.openmrs.liquibase.CoreDataTunerTest
[INFO] Tests run: 0, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.002 s - in org.openmrs.liquibase.CoreDataTunerTest
[INFO] Running org.openmrs.liquibase.AbstractSnapshotTunerTest
[INFO] Tests run: 0, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.001 s - in org.openmrs.liquibase.AbstractSnapshotTunerTest
[INFO] Running org.openmrs.liquibase.MainTest
[INFO] Tests run: 0, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.001 s - in org.openmrs.liquibase.MainTest
[INFO] Running org.openmrs.liquibase.SchemaOnlyTunerTest
[INFO] Tests run: 0, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0 s - in org.openmrs.liquibase.SchemaOnlyTunerTest
[INFO] Results:
[INFO] Tests run: 0, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] Reactor Summary for OpenMRS 2.4.0-SNAPSHOT:
[INFO] OpenMRS ..... SUCCESS [ 1.594 s]
[INFO] openmrs-tools ..... SUCCESS [ 0.973 s]
[INFO] openmrs-test ..... SUCCESS [ 0.033 s]
[INFO] openmrs-api ..... SUCCESS [13:43 min]
[INFO] openmrs-web ..... SUCCESS [ 32.778 s]
[INFO] openmrs-webapp ..... SUCCESS [ 1.579 s]
[INFO] openmrs-liquibase ..... SUCCESS [ 1.529 s]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 14:25 min
[INFO] Finished at: 2020-09-21T10:48:54-04:00
[INFO]
nathan@nathan-VirtualBox: ~/openmrs-core$
```

Gained Experiences:

- Understanding Virtual Box software for virtual machines
 - allocating enough resources to the virtual machine
 - learning linux
- Working as a team
 - coordinating time to work together
 - splitting up work between members
- Installing and building packages from the terminal
- Building and compiling the open source project (OpenMRS)
- Running test cases
- Using Github Wiki
- Reinforcing git and github use

Project Update: We have chosen OpenMRS for our project. We have built and compiled it and with the help of Maven, were able to test the java test classes and collect results (as seen above). Our next focus is Deliverable #2.