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Jenkins

Intégration continue

Automatiser :

- la compilation
- la génération de la documentation de l'API de l'application
- les tests :
 - unitaires
 - fonctionnels, intégration, accéotation
 - ihm
- la génération des exécutables
- le déploiement
- ...

Exemple simple de build.xml (compilation)

http://192.168.108.111:8080/scm/hg/build_xml/file/c336a7d188b0/build.xml

Le fichier build.xml

build_xml

```
<?xml version="1.0" ?>
<project name="utilisation de checkstyle" default="compile"
basedir=".">
  <!-- Definition des proprietes du projet -->
  <property name="dossier.sources.projet" value="src/main/java"/>
  <property name="projet.bin.dir" value="target/classes"/>
  <property name="dossier.outils.projet"
value="src/main/resources"/>
  <property name="dossier.outils.checkstyle"
value="${dossier.outils.projet}/checkstyle"/>
  <property name="projet.temp.dir" value="target/temp"/>
  <property name="projet.outils.dir"
value="src/main/resources/outils"/>
  <property name="projet.outils.lib.dir"
value="${dossier.outils.projet}/lib"/>
  <property name="dossier.rapports" value="target/rapports"/>
  <property name="dossier.rapports.checkstyle"
value="${dossier.rapports}/checkstyle"/>
  <!-- Definition du classpath du projet -->
  <path id="projet.classpath">
```

```
<fileset dir="${dossier.outils.projet}">
  <include name="*.jar"/>
</fileset>
<fileset dir="${projet.outils.lib.dir}">
  <include name="*.jar"/>
</fileset>
<fileset dir="${dossier.outils.checkstyle}">
  <include name="*.jar"/>
</fileset>
<pathelement location="${projet.bin.dir}" />
</path>
<echo message="${env.CHECKSTYLE_HOME}"/>
<!-- Declaration de la tache Ant permettant l'execution de checkstyle
-->
<taskdef resource="checkstyletask.properties"
  classpathref="projet.classpath" />
<!--
ou
<taskdef resource="checkstyletask.properties"
  classpath="${basedir}/lib/checkstyle-5.6-all.jar" ???/> -->

<!-- execution de checkstyle -->
<target name="checkstyle" description="CheckStyle">
  <checkstyle config="${dossier.outils.checkstyle}/sun_checks.xml">
    <fileset dir="${dossier.sources.projet}" includes="**/*.java"/>
    <formatter type="xml"
tofile="${dossier.rapports.checkstyle}/checkstyle.xml"/>
  </checkstyle>

</target>
<target name="rapport.checkstyle" description="Generation d'un
rapport HTML pour Checkstyle." depends="checkstyle">
  <xslt in="${dossier.rapports.checkstyle}/checkstyle.xml"
    out="${dossier.rapports.checkstyle}/html/index.html"
    style="${env.CHECKSTYLE_HOME}/contrib/checkstyle-
noframes.xsl">
    <param name="title" expression="Checkstyle Report" />
    <param name="module" expression="${system.name}" />
  </xslt>
</target>
<!-- Compilation des classes du projet -->
<target name="compile" depends="checkstyle" description="Compilation
des classes">
  <javac srcdir="${dossier.sources.projet}"
    destdir="${projet.bin.dir}"
    debug="on"
    optimize="off"
    deprecation="on">
    <classpath refid="projet.classpath"/>
```

```
</javac>
</target>

</project>
```

Un autre exemple de build.xml

build.xml

```
<project name="AntDefault" default="run" basedir=".">
  <description>
    Ant build sample for running
    - findbugs,
    - pmd,
    - checkstyle,
    - cobertrua and
    - junit.
  </description>

  <!-- Change the paths to your individual installation directories
  -->
  <property name="checkstyle.home.dir"
location="C:/EU/checkstyle/checkstyle-5.0" />
  <property name="cobertura.home.dir"
value="C:/EU/cobertura/cobertura-1.9.2" />
  <property name="findbugs.home.dir"
value="C:/EU//findbugs/findbugs-1.3.9-rc2" />
  <property name="pmd.home.dir" value="C:/EU//pmd/pmd-4.2.5" />
  <property name="lib.dir" location="${basedir}/lib" />
  <property name="src.dir" location="${basedir}/src" />
  <property name="bin.dir" location="${basedir}/bin" />
  <property name="htm.dir" location="${basedir}/html" />
  <property name="report.dir" location="${basedir}/report" />

  <property name="report.checkstyle.dir"
location="${report.dir}/checkstyle" />
  <property name="report.junit.dir" location="${report.dir}/junit" />
  <property name="report.findbugs.dir"
location="${report.dir}/findbugs" />
  <property name="report.cobertura.dir"
location="${report.dir}/cobertura" />
  <property name="report.pmd.dir" location="${report.dir}/pmd" />

  <property name="instrumented.dir"
location="${basedir}/instrumented" />
  <property name="report.temp.dir" location="${report.dir}/temp" />
```

```
<property name="cobertura.ser.file"
location="${report.temp.dir}/cobertura.ser" />

<path id="run.classpath">
  <pathelement path="${bin.dir}" />
  <pathelement path="${basedir}/lib/junit-4.5.jar" />
</path>

<path id="cobertura.classpath">
  <path refid="run.classpath" />
  <fileset dir="${cobertura.home.dir}">
    <include name="cobertura.jar" />
    <include name="lib/**/*.jar" />
  </fileset>
</path>
<taskdef classpathref="cobertura.classpath"
resource="tasks.properties" />

<!-- -->
<target name="clean" description="Delete all result to start with a
clean build.">
  <delete dir="${report.junit.dir}" />
  <delete dir="${report.findbugs.dir}" />
  <delete dir="${report.cobertura.dir}" />
  <delete dir="${report.checkstyles.dir}" />
  <delete dir="${report.temp.dir}" />
  <delete dir="${bin.dir}" />
</target>

<target name="prepare.report.dir" description="Prepares the reports
folder">
  <copy todir="${report.dir}">
    <fileset dir="${htm.dir}">
      <include name="*.htm" />
    </fileset>
  </copy>
</target>

<!-- -->
<target name="findbugs"
  depends="compile"
  description="Run code analysis over code to check for
problems."
  >
  <!-- Fail this target if FindBugs is not installed. -->
  <available file="${findbugs.home.dir}/lib/findbugs.jar"
property="findbugs.available" />
  <fail unless="findbugs.available"
    message="Error: FINDBUGS_HOME not set or findbugs.jar not
```

```

found."
  />
  <taskdef name="findbugs"
    classname="edu.umd.cs.findbugs.anttask.FindBugsTask"
    classpath="${findbugs.home.dir}/lib/findbugs-ant.jar"
  />

  <!-- Run FindBugs. -->
  <mkdir dir="${report.findbugs.dir}" />
  <findbugs home="${findbugs.home.dir}"
    workHard="true"
    output="xml:withMessages"
    outputFile="${report.findbugs.dir}/findbugs.xml"
  >
    <class location="${bin.dir}" />
    <auxClasspath>
      <fileset file="${basedir}/lib/junit-4.5.jar" />
    </auxClasspath>
  </findbugs>
</target>

<!-- -->
<path id="pmd2.classpath">
  <pathelement location="${build}" />
  <fileset dir="${pmd.home.dir}/lib/">
    <include name="*.jar" />
  </fileset>
</path>
<taskdef name="pmd" classname="net.sourceforge.pmd.ant.PMDTask"
  classpathref="pmd2.classpath" />
<target name="report.pmd">
  <mkdir dir="${report.pmd.dir}" />
  <pmd rulesetfiles="rulesets/favorites.xml">
    <formatter type="xml"
toFile="${report.pmd.dir}/pmd_report.xml" />
    <fileset dir="${src.dir}">
      <include name="**/*.java" />
    </fileset>
  </pmd>
  <xslt in="${report.pmd.dir}/pmd_report.xml"
class.xslt"
    style="${pmd.home.dir}/etc/xslt/pmd-report-per-
    out="${report.pmd.dir}/pmd_report.html"
  />
</target>

<!-- -->
<target name="compile" depends="clean" description="Compile the
entire project.">
  <mkdir dir="${bin.dir}" />
  <javac debug="true"

```

```
        debuglevel="lines, source"
        srcdir="${src.dir}"
        destdir="${bin.dir}"
        classpathref="run.classpath"
    />
</target>

<!-- -->
<target name="cobertura.instrument"
        depends="clean, compile"
        description="Instrument the project for code coverage."
    >
    <mkdir dir="${report.temp.dir}" />
    <cobertura-instrument todir="${instrumented.dir}"
datafile="${cobertura.ser.file}">
        <ignore regex="org.apache.log4j.*" />
        <fileset dir="${bin.dir}">
            <include name="**/*.class" />
            <exclude name="**/*Test.class" />
        </fileset>
    </cobertura-instrument>
</target>

<!-- -->
<target name="junit"
        depends="clean, compile, cobertura.instrument"
        description="Run all junit test cases."
    >
    <mkdir dir="${report.cobertura.dir}" />
    <mkdir dir="${report.temp.dir}" />

    <junit printsummary="yes" fork="yes" haltonfailure="no">

        <!-- Specify the name of the coverage data file to use.
            The value specified below is the default. -->
        <sysproperty key="net.sourceforge.cobertura.datafile"
            file="${cobertura.ser.file}" />

        <!-- Note the classpath order: instrumented classes are
before
            the original (uninstrumented) classes. This is
important. -->
        <classpath location="${instrumented.dir}" />
        <classpath location="${bin.dir}" />
        <classpath location="${basedir}/lib/junit-4.5.jar" />

        <!-- The instrumented classes reference classes used by the
Cobertura runtime, so Cobertura and its dependencies
must be on your classpath. -->
```

```
<classpath refid="cobertura.classpath" />

<formatter type="plain" />
<formatter type="xml" />

<batchtest todir="${report.temp.dir}">
  <fileset dir="${src.dir}">
    <include name="**/*Test.java" />
  </fileset>
</batchtest>
</junit>
</target>

<!-- -->
<target name="report.junit" depends="junit"
  description="Create a report for the test result.">
  <delete dir="${report.junit.dir}" />
  <mkdir dir="${report.junit.dir}" />
  <junitreport todir="${report.junit.dir}">
    <fileset dir="${report.temp.dir}">
      <include name="*.xml" />
    </fileset>
    <report format="frames" todir="${report.junit.dir}" />
  </junitreport>
</target>

<!-- -->
<target name="report.findbugs" description="Generate a report on
error analysis.">
  <xslt in="${report.findbugs.dir}/findbugs.xml"
    style="${findbugs.home.dir}/src/xsl/fancy.xsl"
    out="${report.findbugs.dir}/findbugs-default.html"
  />
</target>

<!-- -->
<target name="report.cobertura"
  depends="junit"
  description="Generate an HTML report on Cobertura."
>
  <cobertura-report format="html"
    datafile="${cobertura.ser.file}"
    destdir="${report.cobertura.dir}"
  >
    <fileset dir="${src.dir}">
      <include name="**/*.java" />
    </fileset>
  </cobertura-report>
</target>
```

```
<!-- -->
<target name="report.checkstyle"
  description="Generate a report of code convention violations.">
  <taskdef resource="checkstyletask.properties"
    classpath="${checkstyle.home.dir}/checkstyle-
all-5.0.jar"
  />

  <!-- run verification of installation-->
  <available file="${checkstyle.home.dir}/checkstyle-all-5.0.jar"
    property="checkstyle.available"
  />
  <fail unless="checkstyle.available"
    message="Error: CHECKSTYLE_HOME not set or checkstyle-
all-5.0.jar not found."
  />
  <mkdir dir="${report.checkstyle.dir}" />

  <!-- run analysis-->
  <checkstyle config="${checkstyle.home.dir}/sun_checks.xml"
    failureProperty="checkstyle.failure"
    failOnViolation="false"
  >
    <formatter type="xml"
tofile="${report.checkstyle.dir}/checkstyle_report.xml" />
    <fileset dir="${src.dir}" includes="**/*.java" />
  </checkstyle>

  <style in="${report.checkstyle.dir}/checkstyle_report.xml"
    out="${report.checkstyle.dir}/checkstyle_report.html"
    style="${checkstyle.home.dir}/contrib/checkstyle-
noframes.xsl"
  />
</target>

<!-- -->
<target name="clean.temp" description="Delete all temporary files
and folders.">
  <delete dir="${instrumented.dir}" />
  <delete dir="${report.temp.dir}" />
</target>

<!-- -->
<target name="run"
  description="Run the build"
  depends="clean,
    prepare.report.dir,
    report.checkstyle,
    report.pmd,
```

```
        compile,  
        cobertura.instrument,  
        junit,  
        report.junit,  
        findbugs,  
        report.findbugs,  
        report.cobertura,  
        clean.temp"  
    >  
    </target>  
</project>
```

Classe TypeDeBien

TypeDeBien.java

```
package domaine;  
  
/**  
 *  
 * @author Br  
 */  
public class TypeDeBien {  
  
}
```

D'autres classes Java

L'archive :[domaine.zip](#)

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