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CEN 4025
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Module 12

GitHub Repo: https://github.com/Tristin-Young/CEN4025-Mod12

To create a build file, the first step is defining requirements. For the scope of this assignment, the requirements are as follows:

- Package the project into a WAR file using maven
- Place that war file in the /webapps folder of Apache Tomcat
- Run the startup.bat file in the /bin folder of Apache Tomcat

Below is a photo of the build file:

```
@echo on

REM Navigate to the Maven project directory
cd C:\user\trist\Desktop\Fall23\CEN4025\Assignment12\

REM Run Maven clean and package
mvn clean package

REM Check if the WAR file was created successfully
IF EXIST "target\Assignment5P2-1.0-SNAPSHOT.war" (
    REM Copy the WAR file to Tomcat's webapps directory
    copy "target\Assignment5P2-1.0-SNAPSHOT.war" C:\apache-tomcat-9.0.83\webapps\

    REM Navigate to Tomcat's bin directory and start the server
    cd C:\apache-tomcat-9.0.83\bin\
    call startup.bat
) ELSE (
    echo "Build failed: WAR file not found."
)
```

The first line turns on console output, so whatever the build file runs will show there. Any lines beginning with ‘REM’ are comments. We first navigate to where the project is stored on my local machine. We then run the command ‘mvn clean package’ to clean the project and package it into a WAR file. The WAR file is saved into a folder named ‘target’. We navigate to the folder and check to see if the WAR file is present, and if it is we copy it into the appropriate Apache Tomcat location (in the webapps folder). Then, the directory is changed to where Apache stores the startup batch file. Finally, call the startup file. If there is no WAR file in the ‘target’ folder, an error is returned alerting the user that the build failed.