

MeeshQuest: Getting Started

CMSC 420 – 0201 – Fall 2019

Step 1: Administration

Make sure you are registered for the class and that you can log in for Fall 2019, CMSC 420 (0201) at <https://submit.cs.umd.edu/>. If not email [Dave Mount](mailto:dave.mount@umd.edu) immediately.

If you already have the JDK and Eclipse, you can skip Step 2, but creating a new workspace is highly recommended.

Step 2: Installing Java and Eclipse

Install Java, version 8 or later and Eclipse. Standard instructions can be found at the link below (ignore the material on CVS):

<https://www.cs.umd.edu/eclipse/>

Step 3 – Setting up the course-management plugin

The course-management plugin is useful for submitting your programming assignment from Eclipse. (You have probably used it in your other programming classes, and if it is already installed, you can skip this step.)

To install it launch Eclipse. (You may need to specify a workspace, where your source code will be kept.)

For recent Eclipse versions:

Select **“Help → Install New Software...”**

Select **“Add...”**

In the pop-up window for **“Name:”** enter **“UMD”** (or whatever you like) and for **“Location:”** enter **“http://www.cs.umd.edu/~pugh/eclipse”**

Hit **“Add”**

Click on the **“>”** symbol to expand the drop-down list **“Uncategorized”**, and check the box next to **“Course Project Manager 0.3.1”**

Click **“Next”**, then **“Next”**, then accept the license, and **“Finish”**.

Select **“Install anyway”** if there is a popup for security warning

Finally, select **“Restart Now”** when the popup comes up

For older Eclipse versions, follow the directions at <https://www.cs.umd.edu/~pugh/eclipse/>

Once the software is installed, it still needs to be enabled. When your project has been set up, right-click on the project name in the Eclipse Package Explorer window, select **“Properties”** and then

“**Course Project Management**” from the menu on the right side, and check the box “**Enable Course Project Submission**”. Finally click “**Apply and Close**”.

Step 4 – Importing the project starter files

Download the file [MeeshQuest-Skeleton.zip](#) from the class [Projects page](#).

Launch Eclipse

Select “**File → Import...**”

Choose “**General → Existing Projects into Workspace**”

Click “**Next**”

Choose “**Select archive file**” and browse to your local version **MeeshQuest-Skeleton.zip**. Select “**Open**” and “**Finish**”.

You should see a project in the Package Explorer with the name “MeeshQuest-Skeleton”

Navigate to “**MeeshQuest-Skeleton → src → cmsc420.meeshquest.part1**” and double-click the file “**MeeshQuest.java**” to view the skeleton program

You should not have any compilation errors. If the line

```
import cmsc420.xml.XmlUtility;
```

is flagged with the error “The import class cmsc420.xml cannot be resolved”, you will need to add the file lib/cmsc420util.jar file to you Java build path. To do this, right-click the “**MeeshQuest-Skeleton**” project in the Eclipse Package Explorer and select “**Build Path → Configure Build Path...**” Select the “**Libraries**” tab in the window on the right side, click the “**Classpath**” item, and on the right click “**Add JARs...**”. In the pop-up window, navigate to “**MeeshQuest-Skeleton/lib**”, select the file “**cmsc420util.jar**” and hit “**OK**”. Click “**Apply and Close**”.

Step 5 – Running the skeleton program

Right-click the “**MeeshQuest-Skeleton**” project in the Eclipse Package Explorer and select “**Run as → Java Application**” (If given the choice between “MeeshQuest” and “CanvasPlusDemo”, select “MeeshQuest” and click “**OK**”)

The program should terminate without any error messages. If not, please check with us. The output is stored in the file:

```
tests/part1/part1.test0.output.xml
```

This file should exist as soon as the program terminates, but it may not be visible from the Eclipse Package Explorer. To make it visible, right-click on “**MeeshQuest-Skeleton**” project in the Package Explorer and select “**Refresh**”. The file should now be visible.

To view its contents, right click the file name and select “**Open With → Generic Text Editor**”. You should see:

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
```

(possibly followed by some empty lines)

If so, you have correctly configured Eclipse and the starter code, and you are ready to go! If not, check with us.