

# Git Procedure – Code Challenges

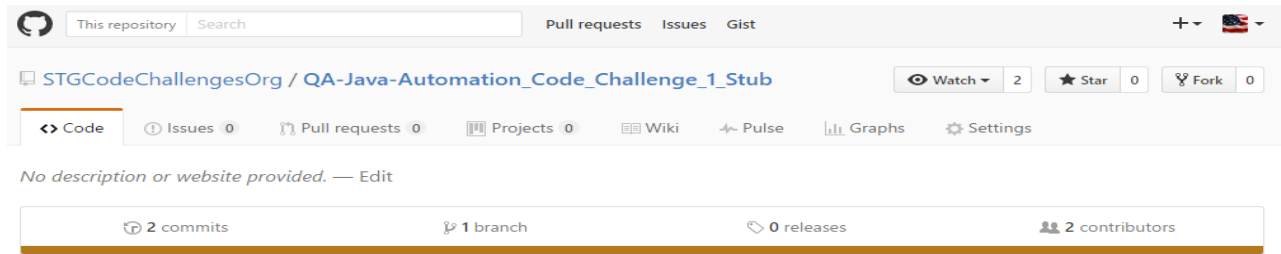
## **NOTE:**

You must create an STG Github account, and Git must be installed on your computer before proceeding. These steps should have been completed as part of the onboarding process. If you have already created an account and installed Git, skip to step 1.

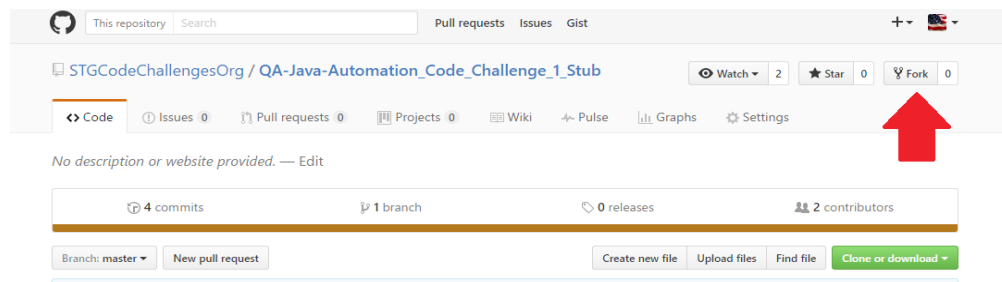
To create a Github account, go to <https://github.com/> and click on the green “Sign Up” button at the top of the page. Create an appropriate user name and password , and use your @stgconsulting.com email address to create a new account. Use your STG Github account for all your Dev Center projects.

The easiest way to install Git on your computer is to install the Github desktop application. Information on installing GitHub can be found at <https://help.github.com/articles/set-up-git/>

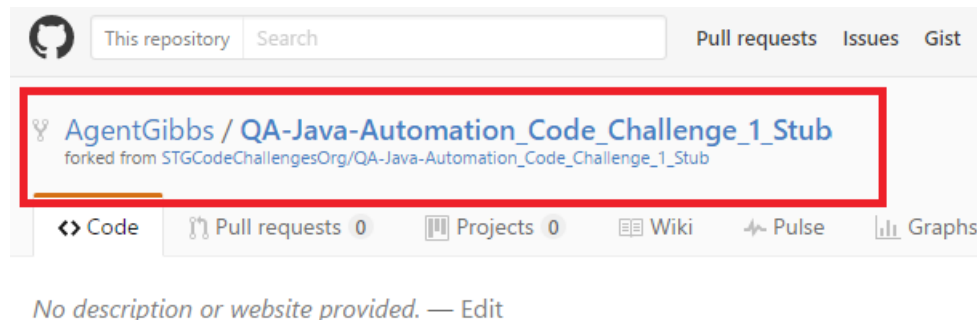
1. Go to the STGCodeChallengesOrg QA-Java-Automation\_Code\_Challenge\_1\_Stub GitHub repository - [https://github.com/STGCodeChallengesOrg/QA-Java-Automation\\_Code\\_Challenge\\_1\\_Stub](https://github.com/STGCodeChallengesOrg/QA-Java-Automation_Code_Challenge_1_Stub)



2. Click the Fork button – this creates a clone of the project on the remote server with you as the owner .



3. Note that a new repository has been created under your personal GitHub account with a reference to the forked from repository



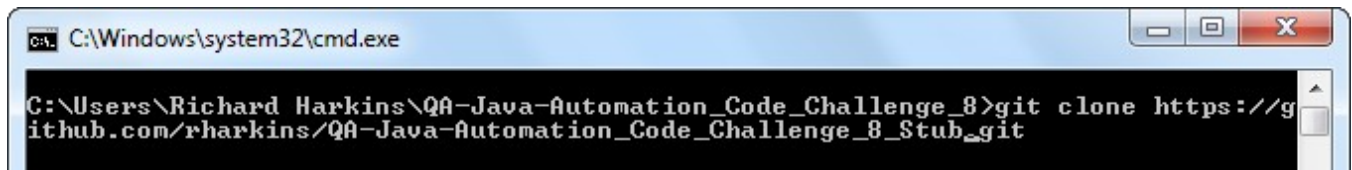
4. Start a terminal window:  
In Windows, search for the “Git Shell” app and run it. Or, press Windows key + R on the keyboard, then type “cmd” and press the Enter key.  
In Mac OS, search for “Terminal” in the Applications folder, and click the icon.  
In Ubuntu, press Ctrl + Alt + T on the keyboard.
5. Change directory to the location of your local working directory – e.g. cd <local working directory path>



```
C:\Windows\system32\cmd.exe

C:\Users\Richard Harkins>cd QA-Java-Automation_Code_Challenge_8_
```

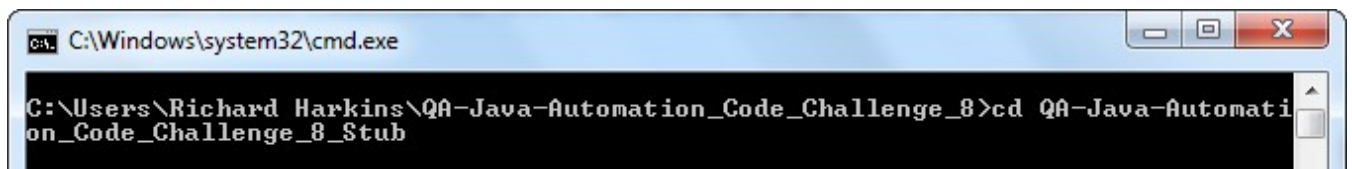
6. Clone the remote git repository to your local working directory – e.g. git clone <URL to remote git repository>



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C:\Windows\system32\cmd.exe

C:\Users\Richard Harkins\QA-Java-Automation_Code_Challenge_8>git clone https://github.com/rharkins/QA-Java-Automation_Code_Challenge_8_Stub.git
```

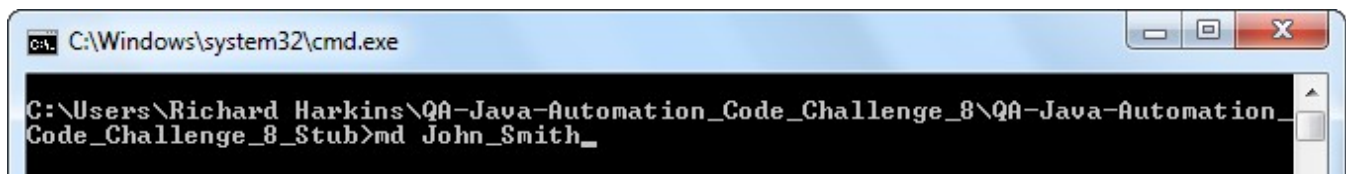
7. Change directory to the stub directory that was just cloned – e.g. cd QA-Java-Automation\_Code\_Challenge\_1\_Stub



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C:\Windows\system32\cmd.exe

C:\Users\Richard Harkins\QA-Java-Automation_Code_Challenge_8>cd QA-Java-Automation_Code_Challenge_8_Stub
```

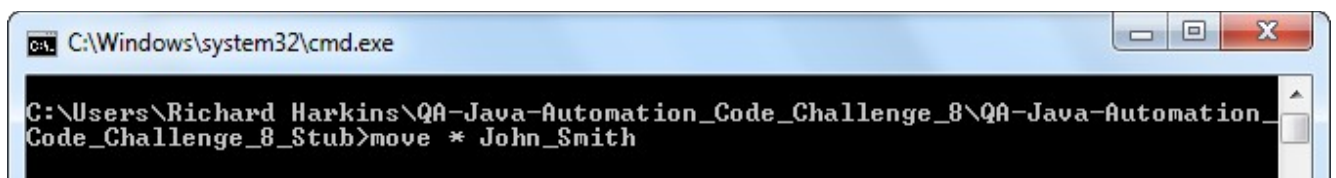
8. Create a directory under the QA-Java-Automation\_Code\_Challenge\_1\_Stub directory named your Firstname and Lastname – e.g. mkdir John\_Smith



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C:\Windows\system32\cmd.exe

C:\Users\Richard Harkins\QA-Java-Automation_Code_Challenge_8\QA-Java-Automation_Code_Challenge_8_Stub>md John_Smith_
```

9. Move the files from your local working directory into the directory you just created – e.g. move \* John\_Smith



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C:\Windows\system32\cmd.exe

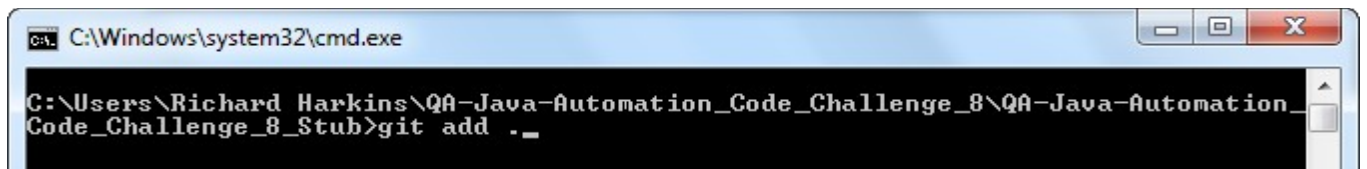
C:\Users\Richard Harkins\QA-Java-Automation_Code_Challenge_8\QA-Java-Automation_Code_Challenge_8_Stub>move * John_Smith
```

10. Using your IDE of choice, code your solution starting from the QA-Java-Automation\_Code\_Challenge\_1\_Stub directory

The following table contains links for setup and configuration of git in several Java IDEs:

Language	IDE	Tutorial Website
Java	IntelliJ	<a href="https://www.jetbrains.com/help/idea/2016.2/using-git-integration.html">https://www.jetbrains.com/help/idea/2016.2/using-git-integration.html</a>
Java	Eclipse	<a href="https://maxrohde.com/2012/05/25/eclipse-and-github-tutorial/">https://maxrohde.com/2012/05/25/eclipse-and-github-tutorial/</a>
Java	NetBeans IDE	<a href="https://netbeans.org/kb/docs/ide/git.html">https://netbeans.org/kb/docs/ide/git.html</a>

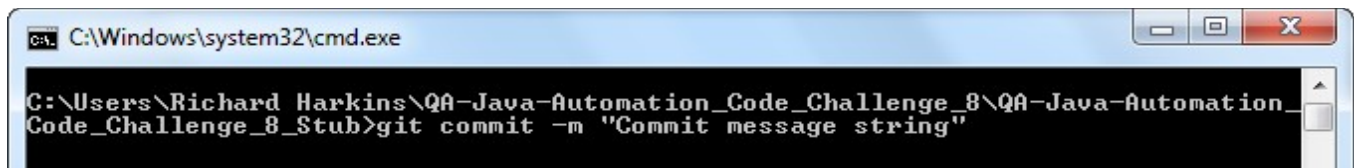
11. When you have finished coding your solution, add your FirstName\_LastName directory to include in your commit (snapshot) to your local git repository – e.g. git add .



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C:\Windows\system32\cmd.exe

C:\Users\Richard Harkins\QA-Java-Automation_Code_Challenge_8\QA-Java-Automation_Code_Challenge_8_Stub>git add .
```

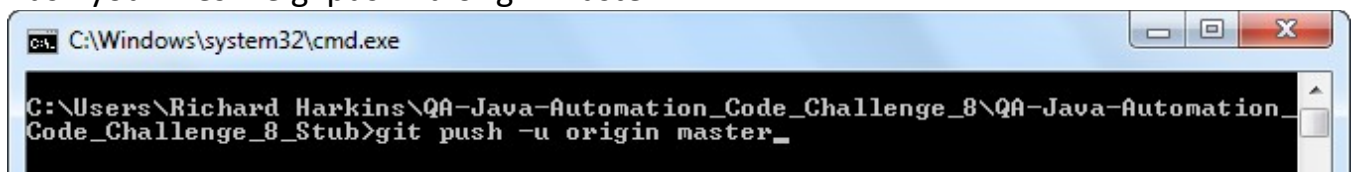
12. Commit added files/directories to local git repository, including a commit message (-m parameter) – e.g. git commit -m "commit message goes here"



```
C:\Windows\system32\cmd.exe

C:\Users\Richard Harkins\QA-Java-Automation_Code_Challenge_8\QA-Java-Automation_Code_Challenge_8_Stub>git commit -m "Commit message string"
```

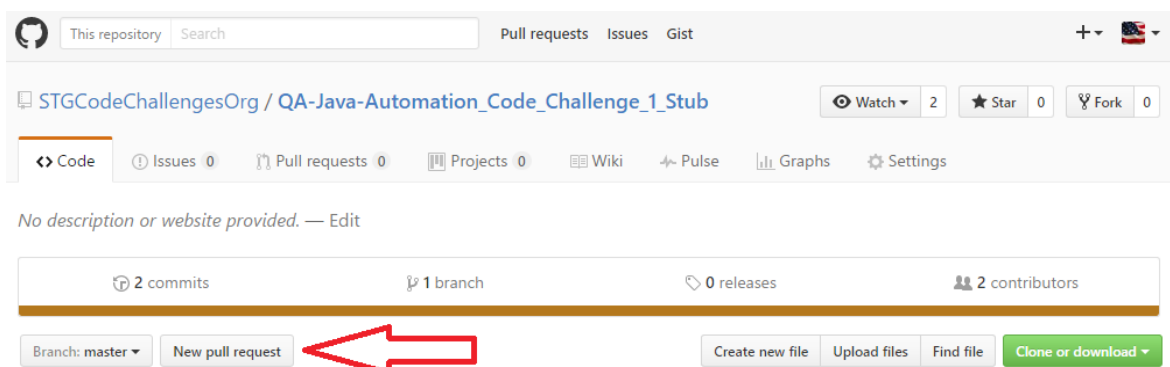
13. Push your files – e.g. push -u origin master



```
C:\Windows\system32\cmd.exe

C:\Users\Richard Harkins\QA-Java-Automation_Code_Challenge_8\QA-Java-Automation_Code_Challenge_8_Stub>git push -u origin master
```

14. Click the New Pull Request button on GitHub to start the creation of a Pull request.



15. Click the Create pull request button on GitHub to send a pull request to the project owner
16. Add text to the pull request message and click on the Create pull request button
17. The new pull request is now created and is pending approval from the remote repository owner. You can check the status of your pull request by clicking on the Pull Request tab on the remote repository's page:

