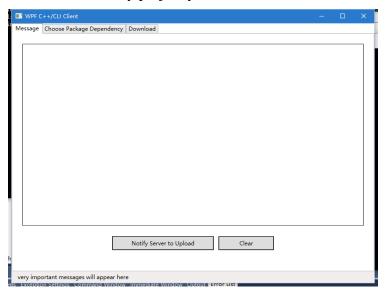
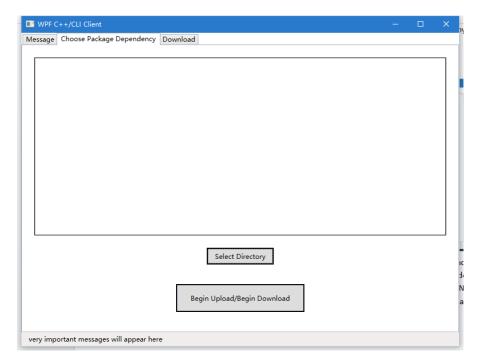
ReadMe of Dependency-Based Remote Code Repository Jiayu Li

I have implement the project and match the requirements. I will explain how to use my project and how my project match all the requirements. And my project can process the types of files including .cpp, .h and .xml.

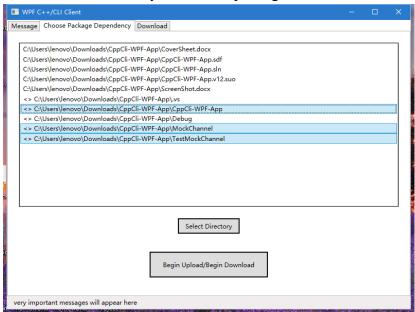
I design some steps to use my project. You can follow steps to use it. Otherwise, it may have some problems. Now, I start my project you can see a window:



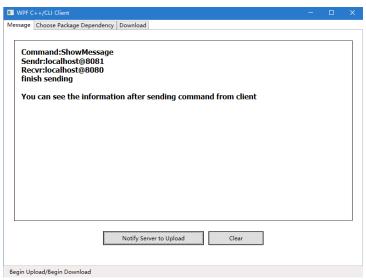
(1) When you want to upload (or check in) file, you must press the button "Notify Server to Upload" firstly. After pressing the button, you can go click the head tab "Choose Package Dependency" to decide which packages have dependencies and you want to store them in server. Note that you should choose package instead of individual files like .cpp or .h because in this project, professor asks us to process the package or module dependencies. I set it just can process the dependency of package.



After you press the head tab and enter the window "Choose Package Dependency", you can press the button "Select Directory" to choose packages.



Now, you can see I choose the package CppCli-WPF-App, MockChannel and TestMockChannel. When I press the button "Begin Upload/Begin Download", it will send the files with dependencies to the server including a corresponding an xml file. Note: important steps: 1. Notify server to upload; 2. Go into "Choose Package Dependency" and choose the packages with dependencies. 3. Press button "Begin Upload/Begin Download" to upload the files to server. And you can see the result when you go back to the head tab "Message":

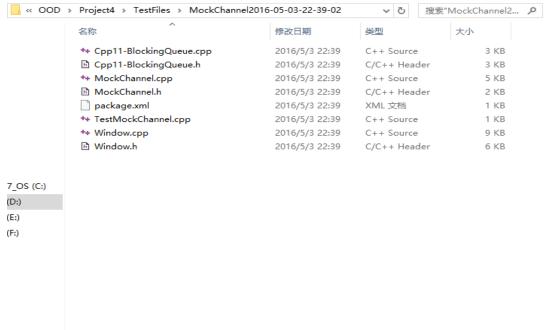


In the window, you can see client gives user a notification that it has sent packages to server according to you command. Also, you can see the result in console of client and server. Client sending files and sending POST message to server. And server it receives message from the client and the name of the files.

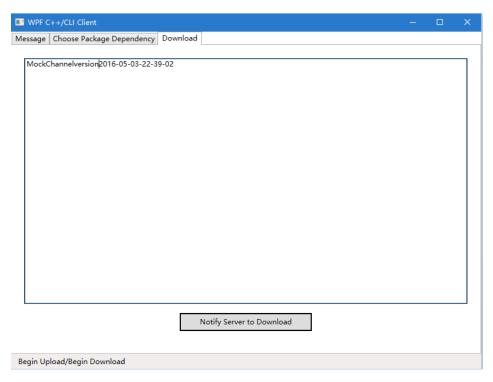
```
receive thread calling getMessage()
chamnel deQing message
server TCP listening socket setup complete
IPv0: ::1
server waiting for connection
sending file Cpp11-BlockingQueue.cpp
sending file TestMockChannel.cpp
sending file Window.cpp
sending file package.xml
clientl sent
POST:Message
getfile:no
mode:oneway
toAddr:localhost:8080
fromAddr:localhost:80801
content-length:139
```

```
III HttpMessage Server - Runs Forever
     ver recvd message contents:
<file>MockChannel.cpp</file>
  receive MockChannel2016-05-03-22-39-02/
 server recvd message contents:
<file>TestMockChannel.cpp</file>
  receive MockChannel2016-05-03-22-39-02/
server recvd message contents:
(file>Window.cpp</file>
  receive Mo
server recvd message contents:
(file)Cpp11-BlockingQueue.h</file)
  receive MockChannel2016-05-03-22-39-02/
server recvd message contents:
<file>MockChannel.h</file>
  receive MockChannel2016-05-03-22-39-02/
 server recvd message contents:
<file>Window.h</file>
  receive MockChannel2016-05-03-22-39-02/
```

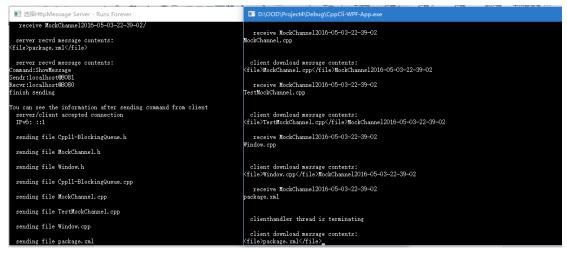
Also in the path you can see the files has been received in the server. (I use TestFiles as server to store the files from clients). And you can check the package name which consists of check-in data and the first package name. (e.g. in the example, check-in data is 2016-05-03-22-39-02 and first package name is MockChannel)



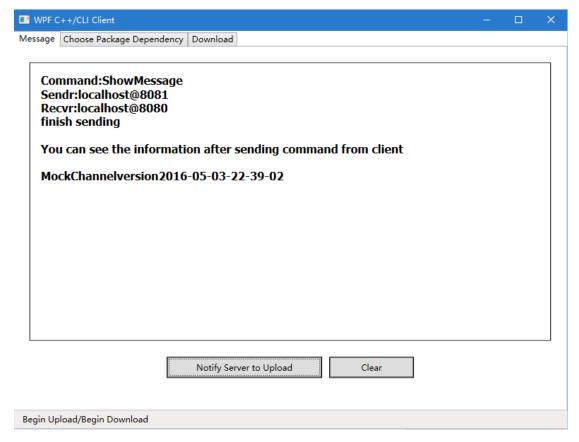
(2) When we finish the upload packages (also calls check-in), we want to download some packages with dependencies based on the version and the package name. (extraction)



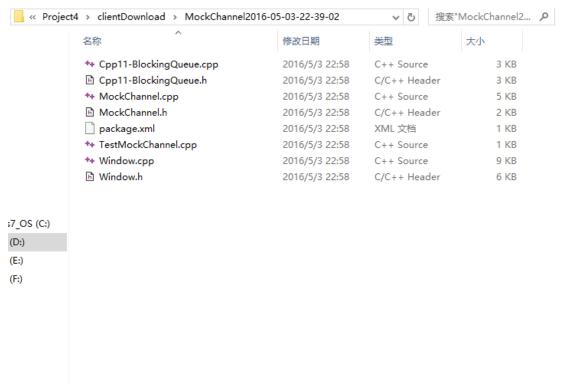
So, you can go into the window "Download" and input the package name and version you want to download. Note that the input should follow a format: package name + version + check-in data like I write above. When finishing input, you can press the button "Notify Server to Download" and then you jump back to the window "Choose Package Dependency" and press the button "Begin Upload/Begin Download". Now, you can see the result: (for example, I want to download the packages I uploaded before. The package name is MockChannel and the check-in data is 2016-05-03-22-39-02))



In the console, Server sends files to the client and client receives the message and files from the server. Also in the GUI, you can see it notify you have received the files from server:



Now you can see in the path we can find the packages. I use the file clientDownload to store packages from server.



(3) About the xml file. I use the example of package MockChannel2016-05-03-22-39-02. When I open the xml file of the package, you can see I set the check-in data as

its version and package name will be the parent of the packages with dependencies. And the property of package is set to closed, which the property of closed is ture. In my code, I have set the properties of all the files are closed. I think if we want to change it with GUI, we must add some textboxes into the GUI to change the property of the files. But, I think it will spend some days. So I just set the properties of all the files are closed.

