

My design:

I define three packages for this project: **Sever**, **Client** and **FrontEnd**. **Sever** accepts two command line arguments:

`../zSeverDir/ 8081`

The first one is the relative path of repository (which means code files uploaded by client will be saved here), and the second one is server's port number (Server listen to this port).

FrontEnd accepts four command line arguments, for example:

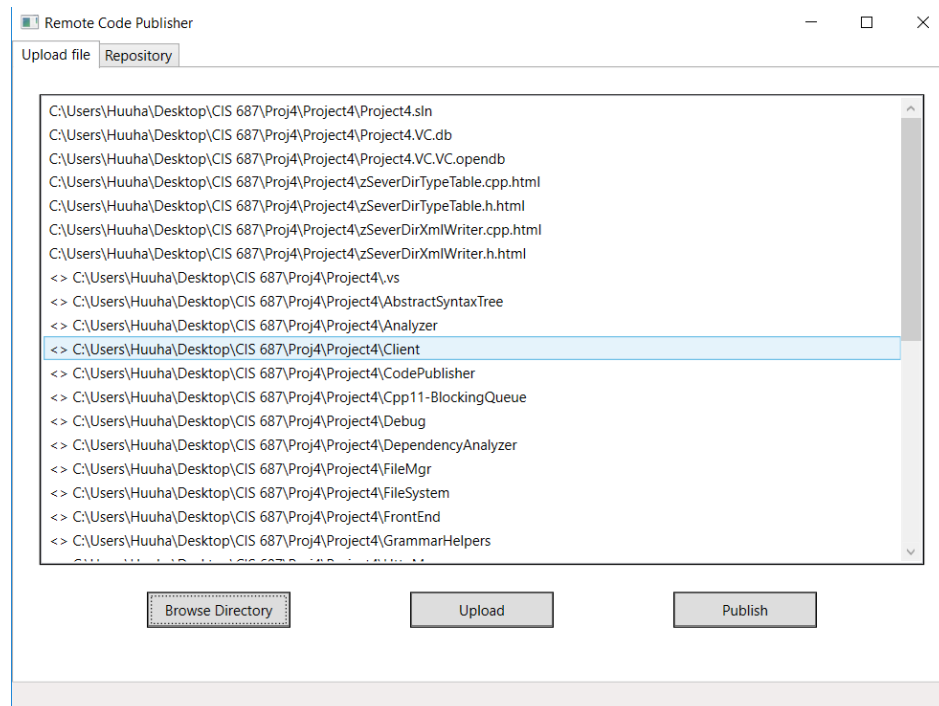
`../zSeverDir/ ../zClientDir/ 8081 8082`

They are, server's directory(repository), client's directory, server's port number and client's port number. TA should specify this four arguments in command line to make sure the program and functionality works fine.

GUI design:

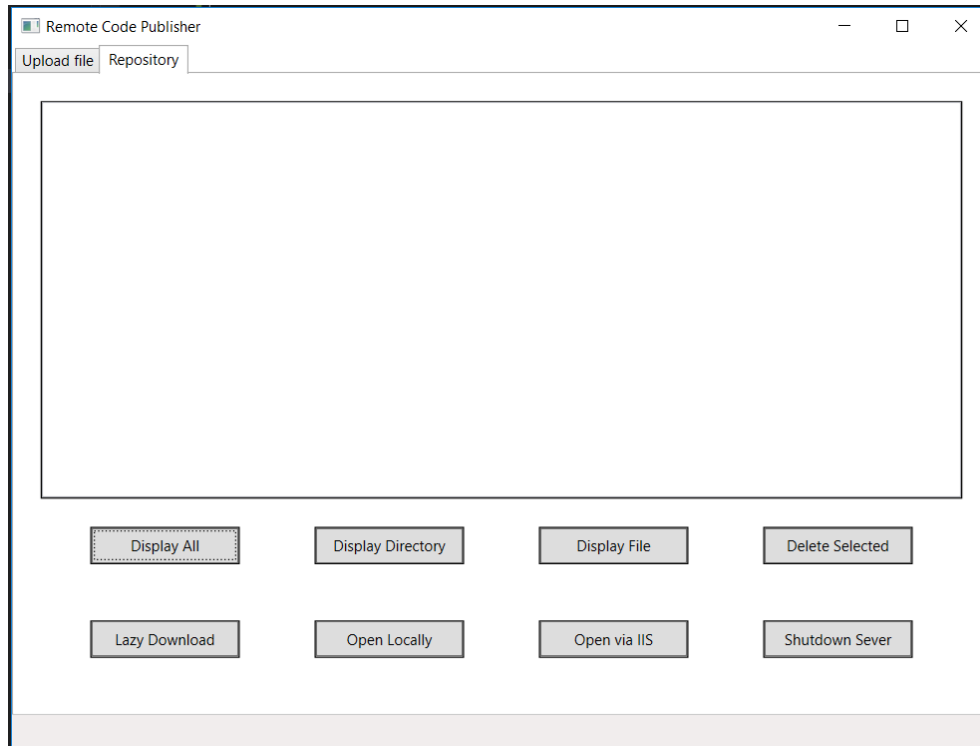
Once run.bat is executed, a server's console, a client's console and a GUI application pop out. The GUI has two tabs, the first tab "Upload file" can be used to upload files and tell the server publish html files. The second tab "Repository" displays the repository as specified in command line and can open or download files.

To examine the functionality of this GUI application, TA should first click the "Browse Directory" button and select a folder. All the files and directories in that folder will be displayed as below:



Use mouse click to multi-select files, when done, click "Upload" button, all the selected files will be sent to the repository specified in command line. TA can also check two consoles to confirm the message communication and check server/client's state. Then click "Publish" button, so a code publisher will be called by server and publish all the cpp code files in repository.

Now go to "Repository" tab, the list box is initially blank:



Click "Display All", the list box will show all the files and directories in repository. Click "Display Directory", the list box will only show directories in repository while click "Display File" only show files.

TA can use mouse click to multi-selected files, when hit "Delete Selected", those selected files will be deleted from repository. If "Lazy Download" is hit, all relevant files will be download to the client's directory as specified in command line. Hit "Open locally", the program will open local files as selected, if file is not downloaded to local, it will first download then open local files. While "Open via IIS" will open files remotely through IIS service. In the end, to terminate this application, first click "shutdown Server" button to shutdown Sever process, then close the application and two consoles.

