**Remote-Code-Publisher**

**Purpose:**

A Code Repository is a Program responsible for managing source code resources, e.g., files and documents. A fully developed Repository will support file persistence, management of versions, and the acquisition and publication of source and document files. A Remote Repository adds the capability to access the Repository's functionality over a communication channel, e.g., interprocess communication, inter-network communication, and communication across the internet.

In this project we will focus on the publication functionality of a Remote Repository. We will develop a remote code publisher, local client, and communication channel that supports client access to the publisher from any internet enabled processor.

The communication channel will use sockets and support an HTTP like message structure. The channel will support:

HTTP style request/response transactions: One-way communication, allowing asynchronous messaging between any two endpoints that are capable of listening for connection requests and connecting to a remote listener.

Transmission of byte streams that are set up with one or more negotiation messages followed by transmission of a stream of bytes of specified stream size.

The Remote Code Publisher will Support publishing web pages that are small wrappers around C++ source code files.   
-> Accept source code text files, sent from a local client.  
-> Support building dependency relationships between code files saved in specific repository folders.  
-> Support HTML file creation for all the files in a specified repository folder, including linking information that displays dependency relationships, and supports and navigation based on dependency relationships.  
->Delete stored files, as requested by a local client.  
->Clients of the Remote Code Publisher will provide a Graphical User Interface (GUI) with means to:

* Upload one or more source code text files to the Remote Publisher, specifying a category with which those files are associated1.
* Display file categories, based on the directory structure supported by the Repository.
* Display all the files in any category.
* Display all of the files in any category that have no parents.
* Display the web page for any file in that file list by clicking within a GUI control. This

implies that the client will download the appropriate webpages, scripts, and style sheets and display, by starting a browser with a file cited on the command line. On starting, will download style sheet and JavaScript files from the Repository.

Note that your client does not need to supply the functionality to display web pages. It simply starts a browser to do that. Browsers will accept a file name, which probably includes a relative path to display a web page from the local directory. You could also start IIS web server and provide an appropriate URL to the browser on startup. Either approach is acceptable. If you use IIS, you won't have to download files, but you are obligated to show that you can do that.

**Requirements:**

Your Remote Repository:

Shall use Visual Studio 2015 and its C++ Windows console projects, as provided in the ECS computer labs. You must also use Windows Presentation Foundation (WPF) to provide a required client Graphical User Interface (GUI).

Shall use the C++ standard library's streams for all console I/O and new and delete for all heap-based memory management.

Shall provide a Repository program that provides functionality to publish, as linked web pages, the contents of a set of C++ source code files.

Shall, for the publishing process, satisfy the requirements of CodePublisher requirements from previous project.

Shall provide a Client program that can upload files, and view Repository contents, as described in the Purpose section, above.

Shall provide a message-passing communication system, based on Sockets, used to access the Repository's functionality from another process or machine.

The communication system shall provide support for passing HTTP style messages using either synchronous request/response or asynchronous one-way messaging.

The communication system shall also support sending and receiving streams of bytes6. Streams will be established with an initial exchange of messages.

Shall include an automated unit test suite that demonstrates you meet all the requirements of this project4 including the transmission of files.

Shall optionally use a lazy download strategy, that, when presented with a name of a source code web page, will download that file and all the files it links to. This allows you to demonstrate your project using local webpages instead of downloading the entire contents of the Code Publisher for demonstration.

Shall optionally have the publisher accept a path, on the commandline, to a virtual directory on the server. Then support browsing directly from the server by supplying a url to that path when you start a browser. This works only if you setup IIS on your machine and make the path a virtual directory. The TAs will do that on the grading machines.

Categories are the names of folders in which the Repository stores its source code and web files. You may define Categories in any way that seems sensible. For example, they could simply be the namespace(s) for the uploaded files, or a Client supplied name.

The stream capablity is intended to send files, which could be either text or binary format. Stream size will be the file size. Transmitting and receiving byte streams will be used to send and receive files in either text or binary format.

This is in addition to the construction tests you include as part of every package you submit.

**How to run the project:**

I have created a **compile.bat** file with the following content.  
devenv remote\_code\_publisher\CodeAnalyzerEx.sln /rebuild debug @pause

Please refer this documentation for how to give command line arguments to compile the visual studio solution.  
<https://msdn.microsoft.com/en-us/library/s2h6xst1.aspx>

I have now created a **run.bat** file with the following content.  
1. cd remote\_code\_publisher\x64\Debug

2. START TestExectutive.exe ..\..\Repository \*.h \*.cpp /f /r ..\..\StoreHTMFiles

C:\HostWebServer <http://localhost:8090/CodePublisher>  
3. cd ..\..\..\remote\_code\_publisher\WPFTest\bin\Debug

4. START WPFTest.exe

**Explanation:**

The first line moves to folder where the TestExecutive.exe file is located.  
 The second line starts the TestExecutive.exe with the list of arguments as follows:  
..\..\Repository -> The folder on which code Analysis needs to be done  
  
\*.h \*.cpp -> Type of files in the repository on which analysis needs to be done  
  
/f /r -> The options used for starting loggers and store the logs in files. This is not used in the current project  
  
..\..\StoreHTMFiles -> The path to store the HTML files published by Code Publisher.  
  
C:\HostWebServer -> The physical path mapped to virtual Directory which also stores the HTML files in addition to local folder in the above argument.  
  
<http://localhost:8090/CodePublisher> -> This is the Virtual Directory hosted by the IIS Server and maps to the physical path in the above 7th argument.

The third line now moves to the Client side folder where the WPF Based Client GUI is executed.  
The fourth line starts the Client executable. Hence both the client and server are started concurrently.

**Client Side Design and Implementation Details by Me:**

<https://github.com/jashwanth/remote_code_publisher/blob/master/WPFTest/MainWindow.xaml.cs>

This file contains the GUI code written by me to support the functionality to upload file, get files based on category, delete files, perform code analysis etc.

Some Important Design Issues Encountered and ideas used to solve them:

Problem: The client will send many type of messages to the server. The client also needs to distinguish different messages sent by the server.

Solution: The code below is a small code snippet which handles the upload button click. The “uploadFile” String was appended before sending the actual file name and hence server understands the type of message received. The server will use the same strategy and hence client distinguishes the messages based on initial string messages received.

//Upload files button

private void upload\_Click(object sender, RoutedEventArgs e)

{

// String combo = comboBox.Text;

Console.WriteLine("Total number of files to be uploaded " + fileList.Count);

foreach(string str in fileList)

{

String message = "uploadFile" + str;

Console.WriteLine("Demonstrating Requirement5: Uploading the files to the

Repository");

shim.PostMessage("uploadFile"+str);

}

//Console.WriteLine("I have selected this in my comobobox " + combo);

}

Problem: The Client GUI needs to be responsive and still should handle the plenty of messages received by the server.

Solution: In the below method I have created a receiver thread which dequeues the messages from the receiver and uses the Dispatcher.Invoke() because the background thread cannot update the UI elements like Textbox, Buttons etc.. The background thread adds the operation to the Dispatcher queue of UI thread.

private void Window\_Loaded(object sender, RoutedEventArgs e)

{

Console.WriteLine(" \n Window\_Loaded::Starting ofWindow\_Loaded method");

tRcv = new Thread( () => {

try

{

while (true)

{

String msg = shim.GetMessage();

Console.WriteLine(" \n Window\_Loaded::Received message from the Shim ");

Console.WriteLine("\n Message Body is " + msg);

Action<String> act = new Action<string>(Add);

Object[] args = { msg };

Dispatcher.Invoke(act, args);

// Console.WriteLine("Inside thread of Window.xaml.cs file message frm getMessage is " + msg);

}

}

catch(Exception exp)

{

Console.WriteLine("Exception caught in Window\_Loaded: thread " +

exp.ToString());

}

}

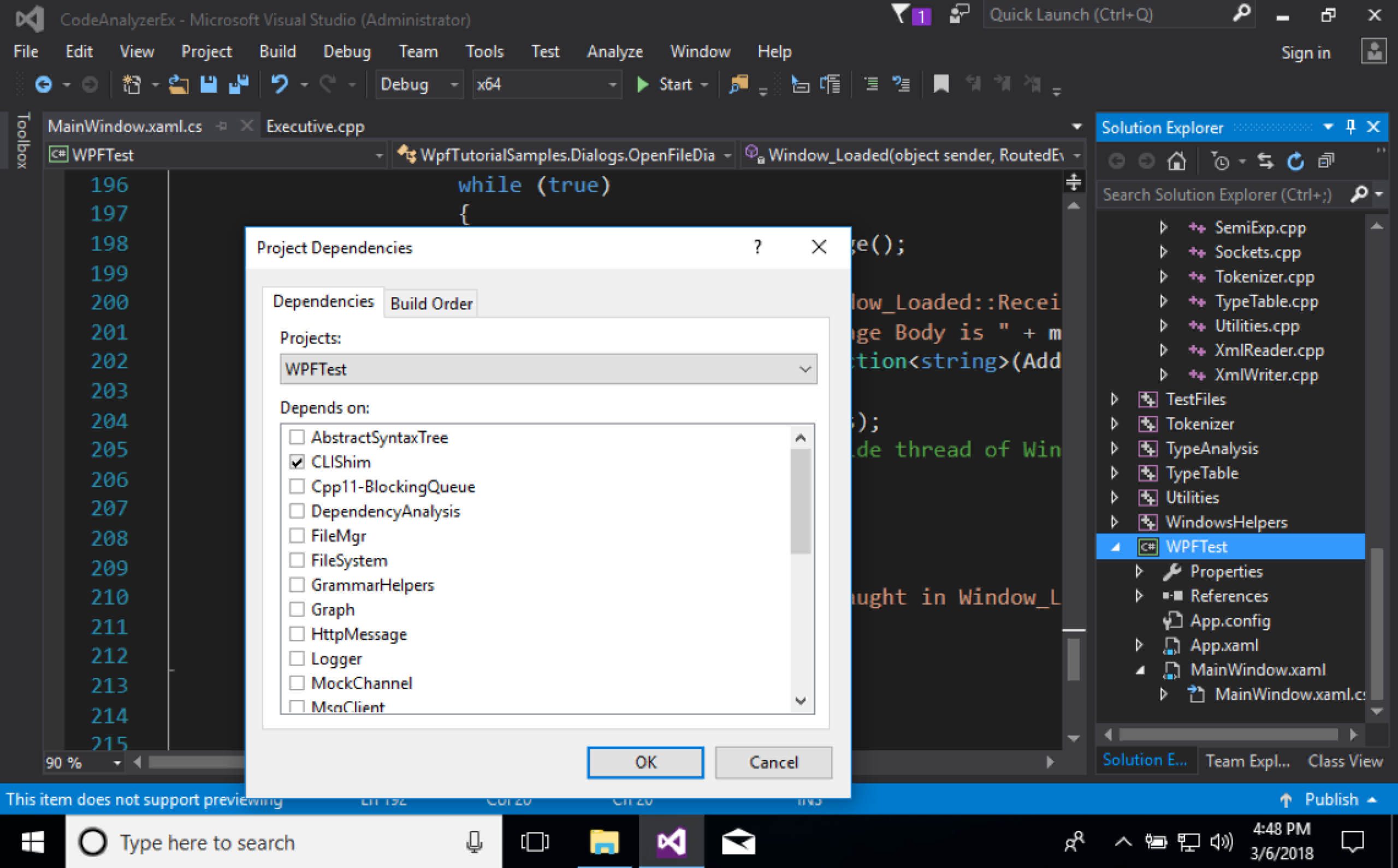
);

tRcv.Start();

}

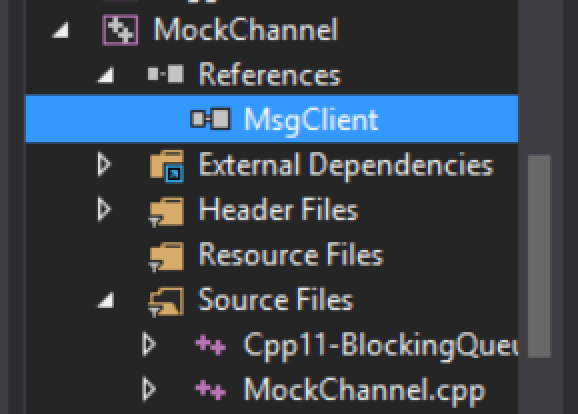
**Communication Channel Design and Implementation Details by Me:**

The GUI was implemented in C#, but the communication channel was implemented in native C++ using win32 Sockets. How to interface them?

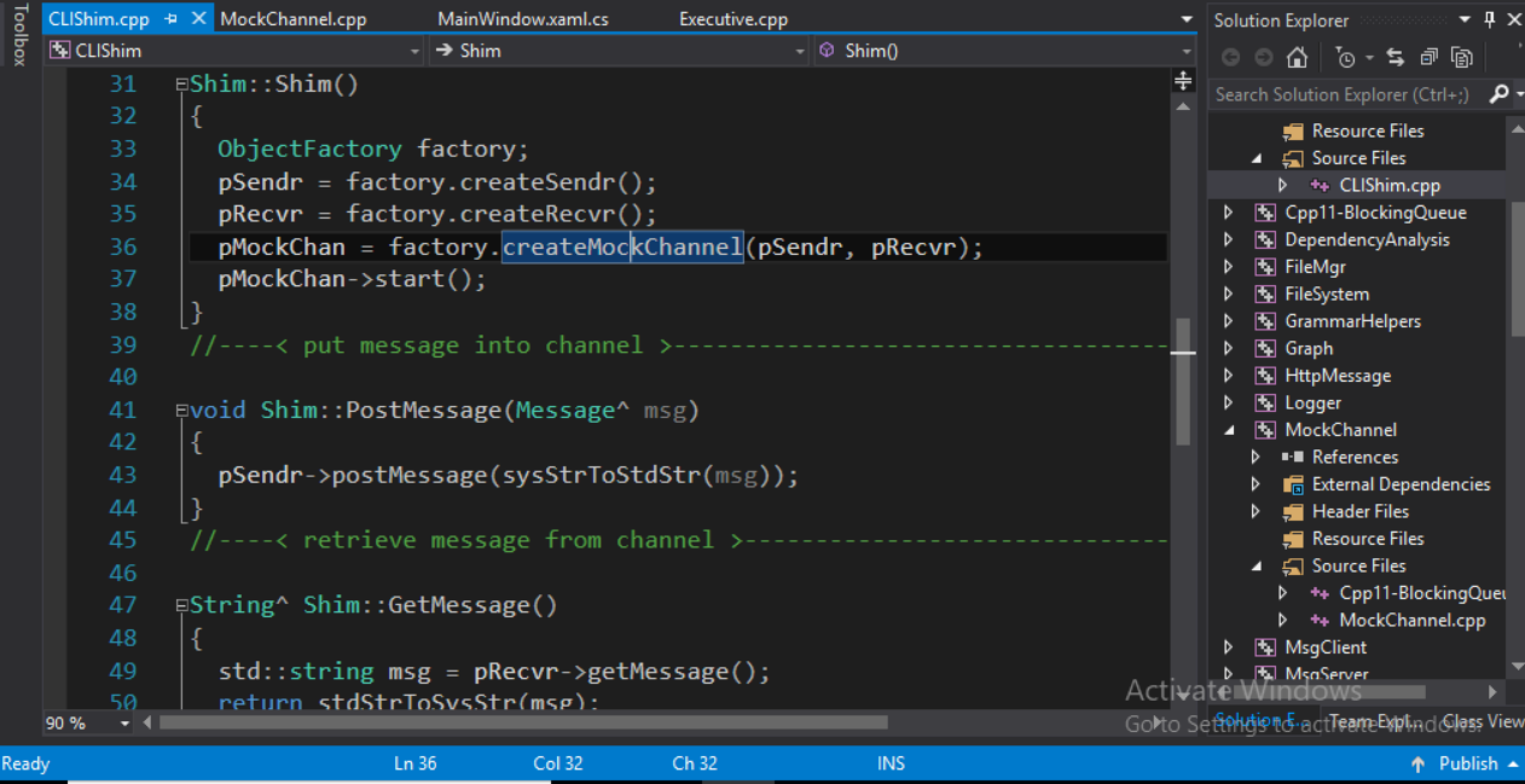


In the above figure I have added CLIShim as the dependency for WPFTest project for communication. The CLIShim is a dll file and hence C# was able to interact with native channel.

The CLIShim code was written in managed C++, which is thin fine proxy layer for calls to native communication channel. (I have added the static library of MockChannel as a reference in CLIShim. I have added the static library of MsgClient as a reference to MockChannel. Hence the design was clean. Please refer to the image below.)

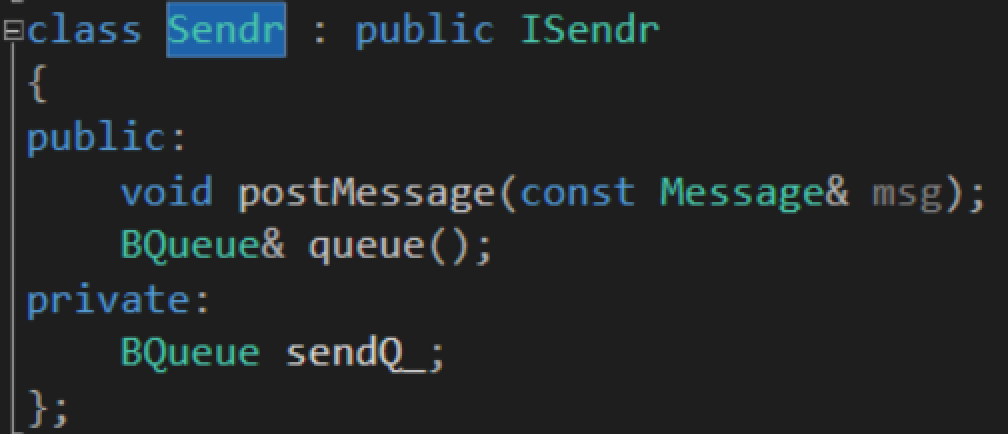


I have added the sender and receiver queues in the constructor of Shim(). The shim layer posts the message to the sender object. The Shim layer gets the message from the receiver object. Please observe that we are using the method sysStrToStdStr(msg) in line 43 in the below image to convert C# System string to C++ String.



Each sender and Receiver queue contains a blocking queue which was a standard implementation provided by the professor. The idea of using the blocking queue is decoupling the producer and consumer threads and aid in their communication.) Native queue i.e., std::queue in C++is not thread safe , so blocking queue uses mutexes and locks. The conditional variable was used to bring the current thread to sleep and notify the waiting threads on the locks.

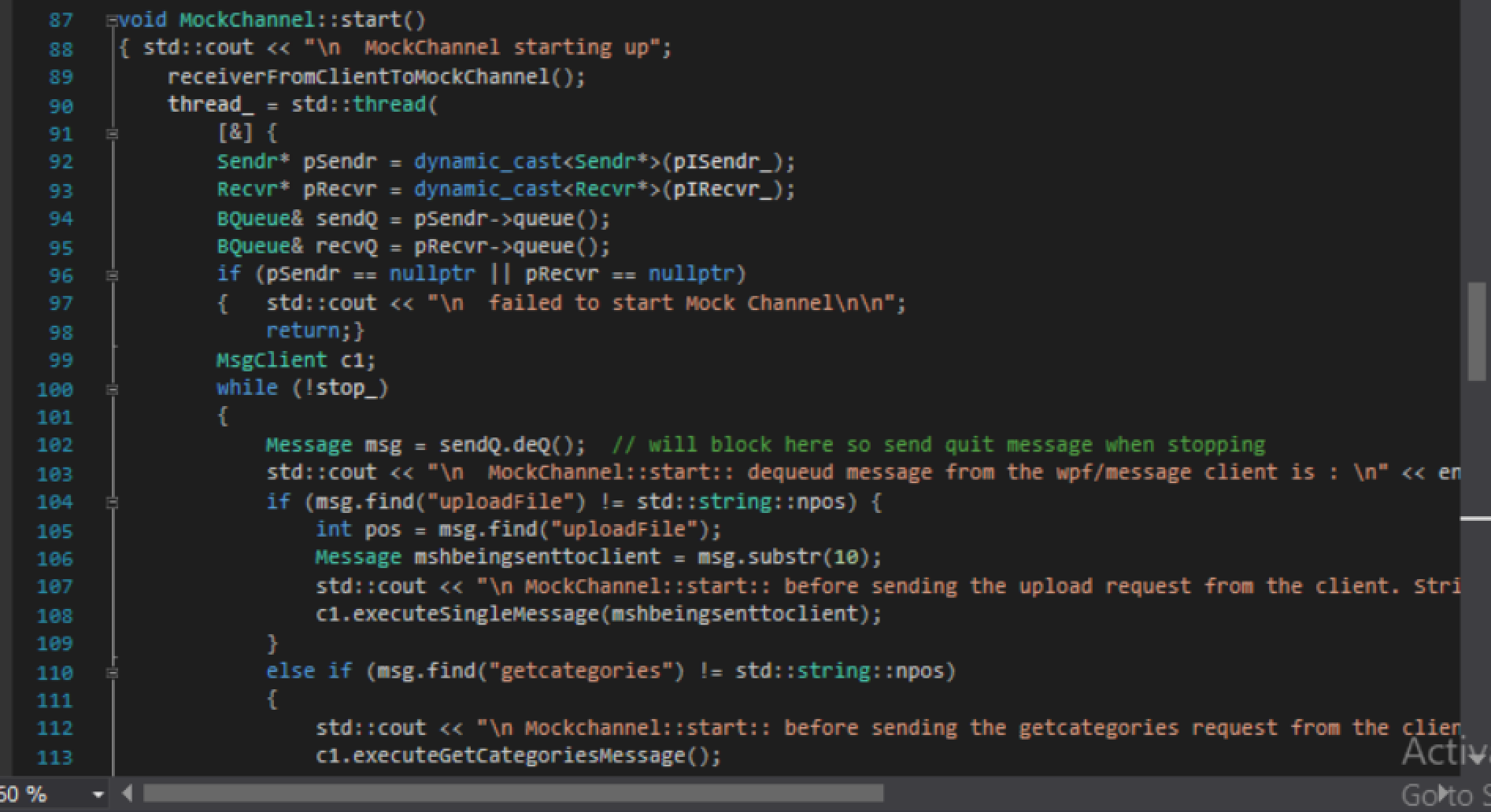
The sender object is a simple implementation of ISendr interface. Similarly, for the receiver object.



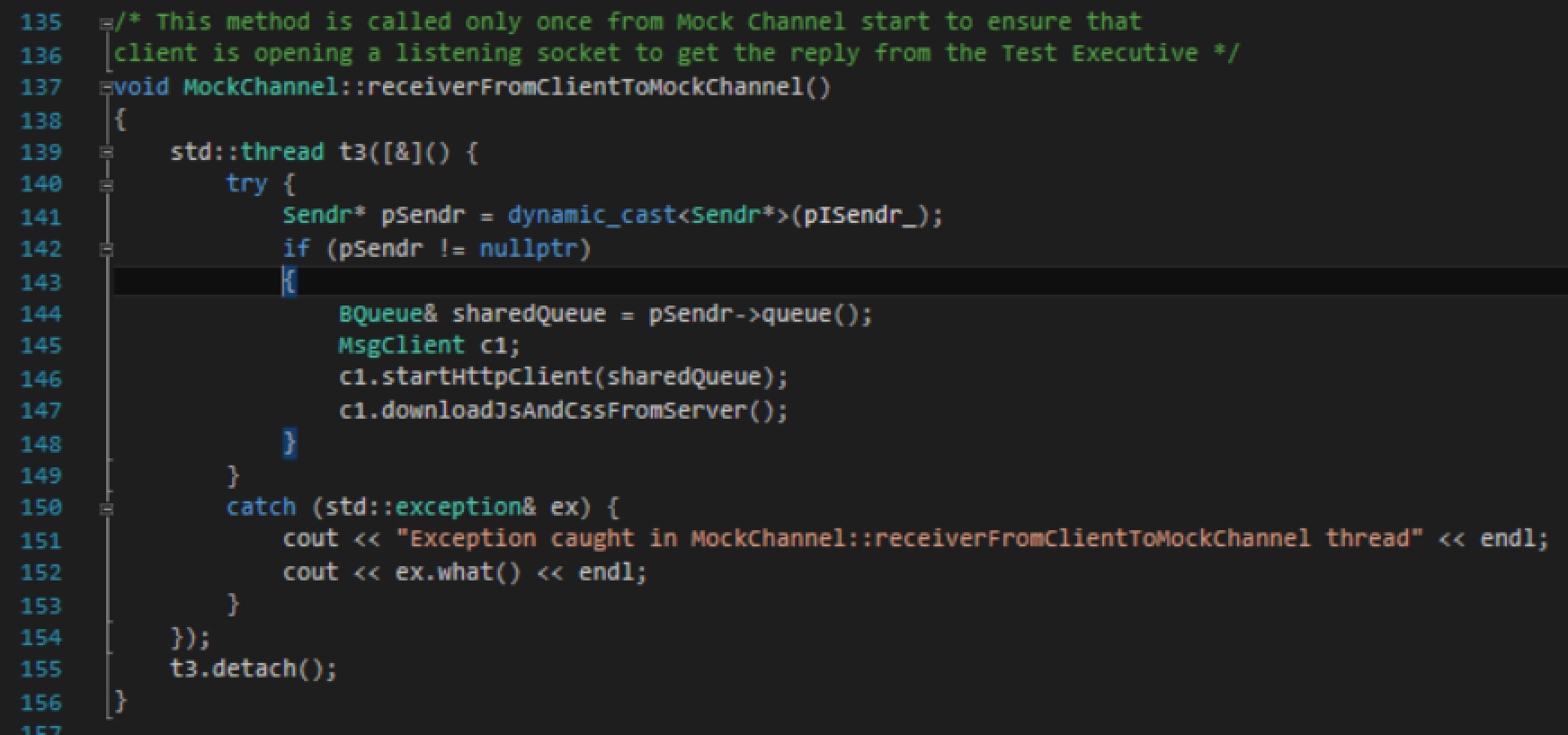
The entire MockChannel.cpp was tweaked me to provide interaction with the client. This design was a choice made by me. The file contains the implementation details of how the client gets the messages instead of receiver channel.The client will get the reply messages from the server and pushes them to the receiver object, which are further updated on WPF GUI.

<https://github.com/jashwanth/remote_code_publisher/blob/master/MockChannel/MockChannel.cpp>

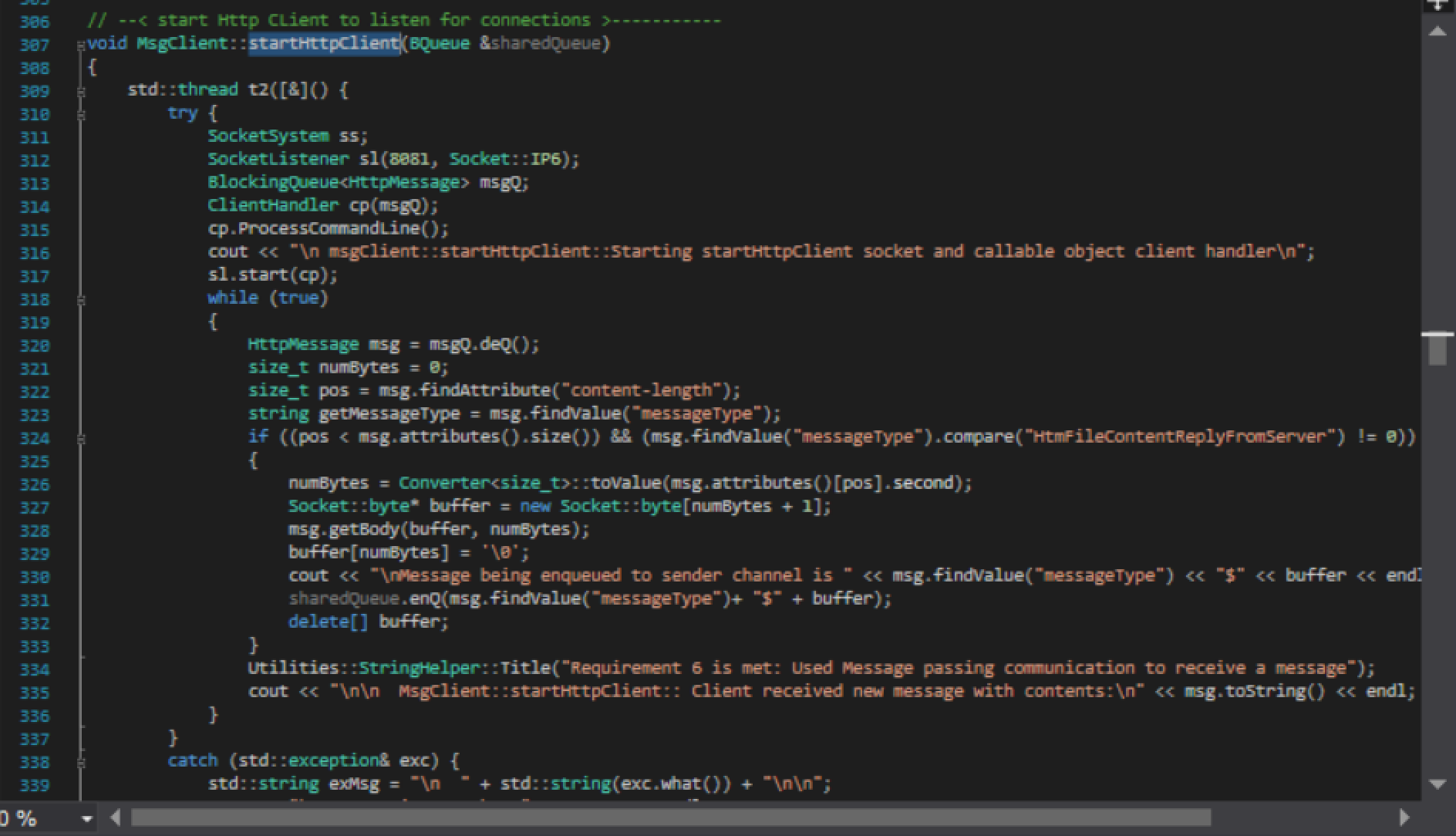
In the start method of mock channel, I have called my own method called receiveFromClientToMockChannel() at line 89 below. The message from the sendr for example in line 104 indicates the type of request made by the WPF Client and I have mapped the requests to the communication channel at lines 108, 113 etc...



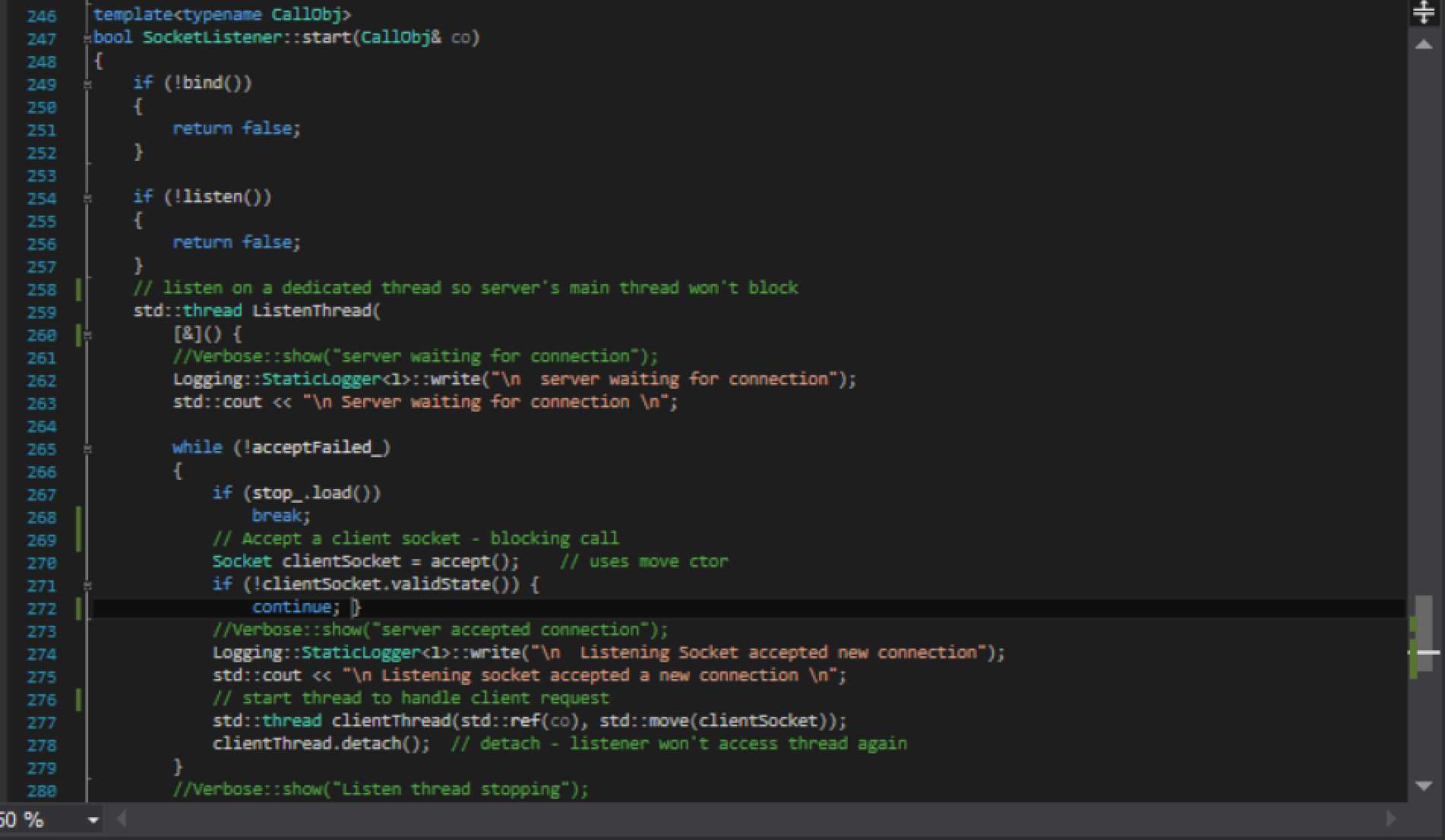
I will now discuss what is written inside line 89 receiveFromClientToMockChannel() described above. In this method I have created a thread which starts Socket listener on the client. The sender object blocking queue is shared with client in the line 146. On the client start all the necessary CSS and JS files are also downloaded from the server at line 147.



In the startHttpClient method, I have started the socketListener at line 312, The callable object clientHandler was passed to the start method at line 317. I have enqueued the replies to the shared blocking queue between client and sendr object at line number 331.



One of the main design decision was to create a separate thread for new connection established. Please observe that we are accepting connection on line 270, and separate thread is spawn at line 277 with parameters as callable object co, std::move(clientsocket) (because clientsocket is unique and cannot be copied and passed across methods, we use move constructor)



**Please refer to the file** [**https://github.com/jashwanth/remote\_code\_publisher/blob/master/MsgClient/MsgClient.cpp**](https://github.com/jashwanth/remote_code_publisher/blob/master/MsgClient/MsgClient.cpp) **which contains further implementation details. I have added methods to read files, messages which parse the HTTP messages based on message-type, content length, file stream bytes block by block.**

**Hence I have briefly described the communication channel from the client perspective and design philosophies I have used in the project.**

**Server Side Design and Implementation Details by me**

**I have implemented the following files on the server side.**

1.<https://github.com/jashwanth/remote_code_publisher/blob/master/Analyzer/Executive.cpp>

2.<https://github.com/jashwanth/remote_code_publisher/blob/master/Repository/DependencyAnalysis/DependAnal.cpp>

3.<https://github.com/jashwanth/remote_code_publisher/blob/master/PublishCode/PublishCode.cpp>

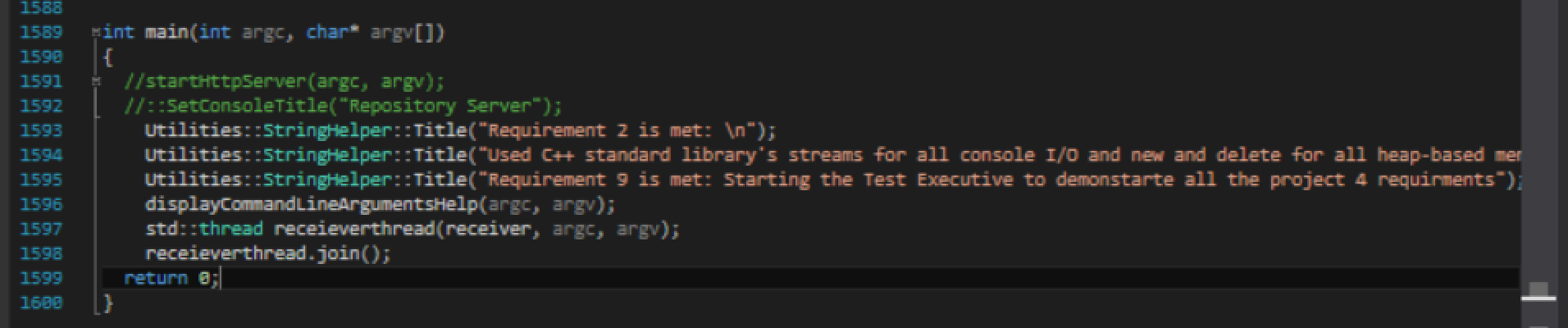
4.<https://github.com/jashwanth/remote_code_publisher/blob/master/TypeTable/TypeTable.cpp>

5.<https://github.com/jashwanth/remote_code_publisher/blob/master/StrongComp/StrongComp.cpp>

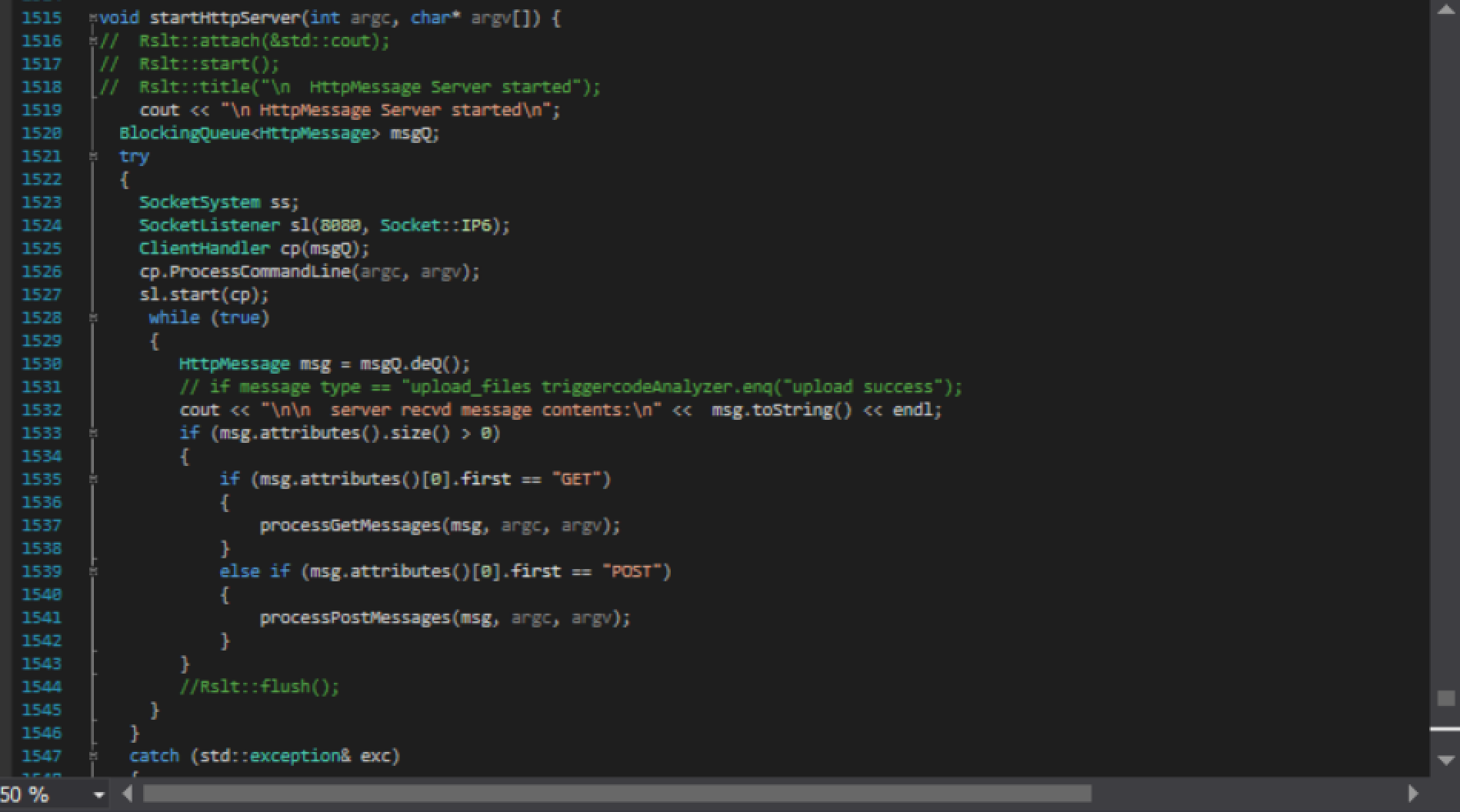
**Executive.cpp File Description:**

The aim of executive.cpp was to demonstrate that all the project requirements are met.

The main method in Executive.cpp starts the receiver thread on line 1597 as shown below.

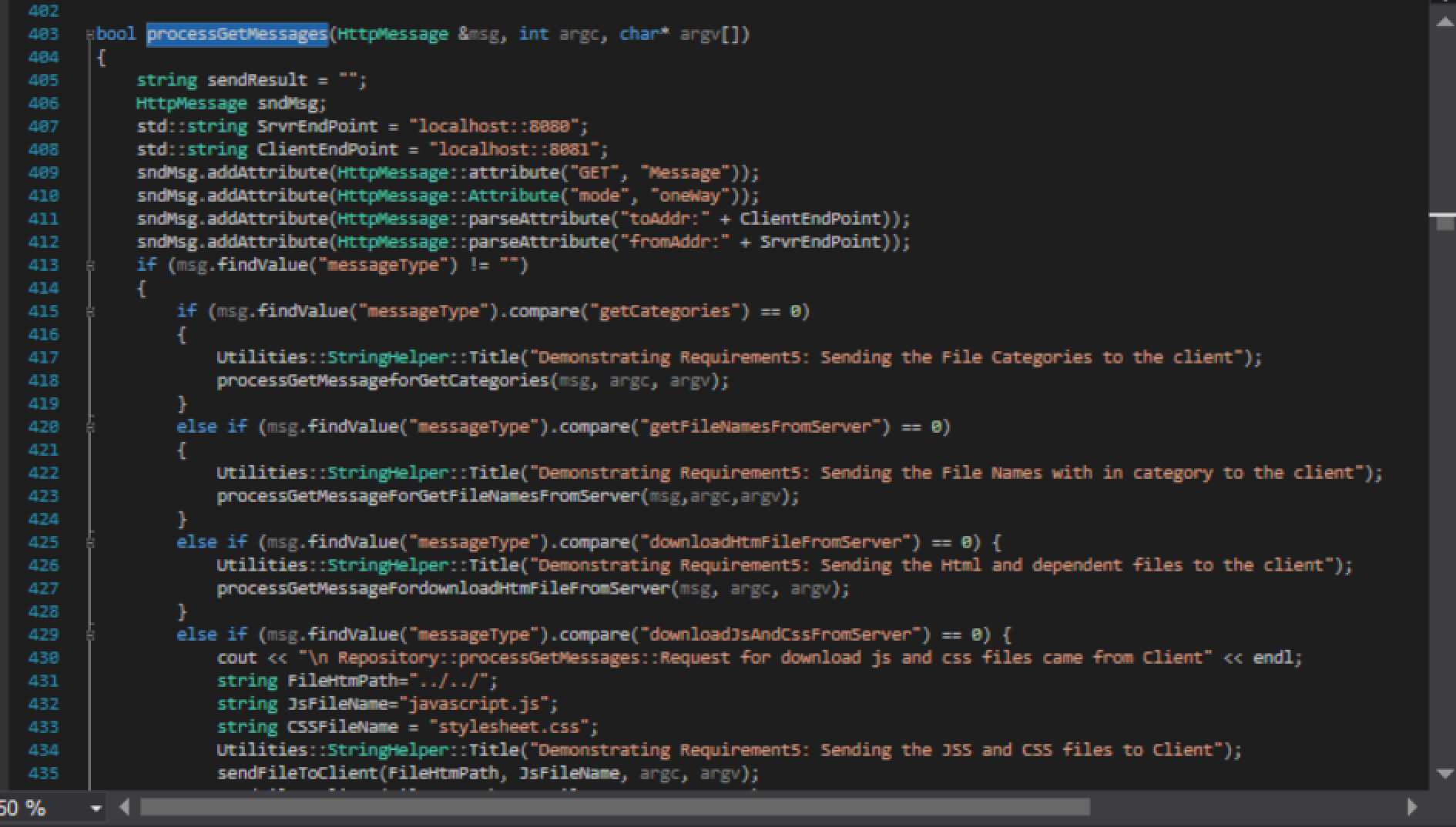


The receiver thread was responsible for starting HTTP Server. The SocketListner is created on line 1524, and it is started in the same way as HTTP Client. The msgQ(on line 1520)was passed to the socket Listener thread, which on receiving messages enqueues it to this shared queue, and hence the communication between threads was enabled. The server processes two types of messages. GET and POST as in the lines 1537 and 1541.

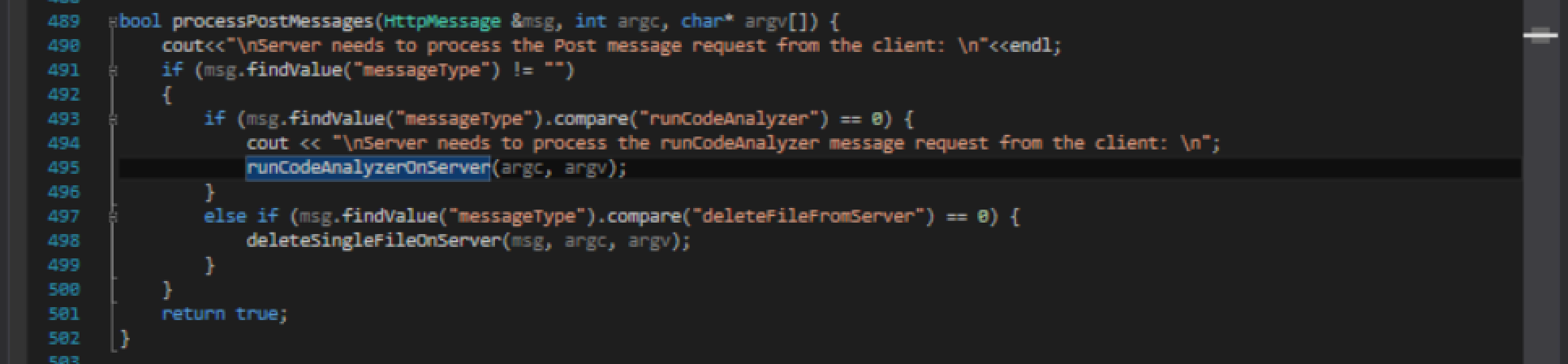


The processGetmessages processes the messages of type : getcategories, getFileNamesFromServer, downloadHtmFileFromServer, downloadJsAndCSSFilesFromServer on

Lines 415, 420, 425, 429 respectively.



Another important POST message is to run Code Analyzer on the server side using POST methods. The line 491 checks the messagetype and runs the analyzer on line 495.



The runCodeAnalyzerOnServer() I have written forms the core of executive.cpp file. First the CodeAnalysisExecutive on line 110 is declared, and we process the source code based on the arguments. The TypeAnalysis is performed on the source code on line 137. Finally, the dependency analysis was performed on the line 142. Finally, the code is published as HTML files on the line 150.



The process of source code parsing is complicated. Most of the helper code for parsing was already given, except some changes I have done to the sequence of files to be parsed(like header files are parsed first before the cpp files), but I will describe the design ideas used in parsing briefly.

Semi Expression Package:

This package provides a public SemiExp class that collects and makes available sequences of tokens. SemiExp uses the services of a Toker class to acquire tokens. Each call to SemiExp: get() returns a sequence of tokens that ends in {,}, ;, and '\n' if the line begins

with #. There are three additional termination conditions: a sequence of tokens that ends with: and the immediately preceding token is public, protected, or private. Each semi expression returns just the right tokens to analyze one C++ grammatical construct, e.g., class definition, function definition, declaration, etc.

Parser Package:

This module defines a Parser class. Its instances collect semi-expressions from a file for analysis. Analysis consists of applying a set of rules to the semi-expression, and for each rule that matches, invokes a set of one or more actions. The design pattern used is strategy design pattern.

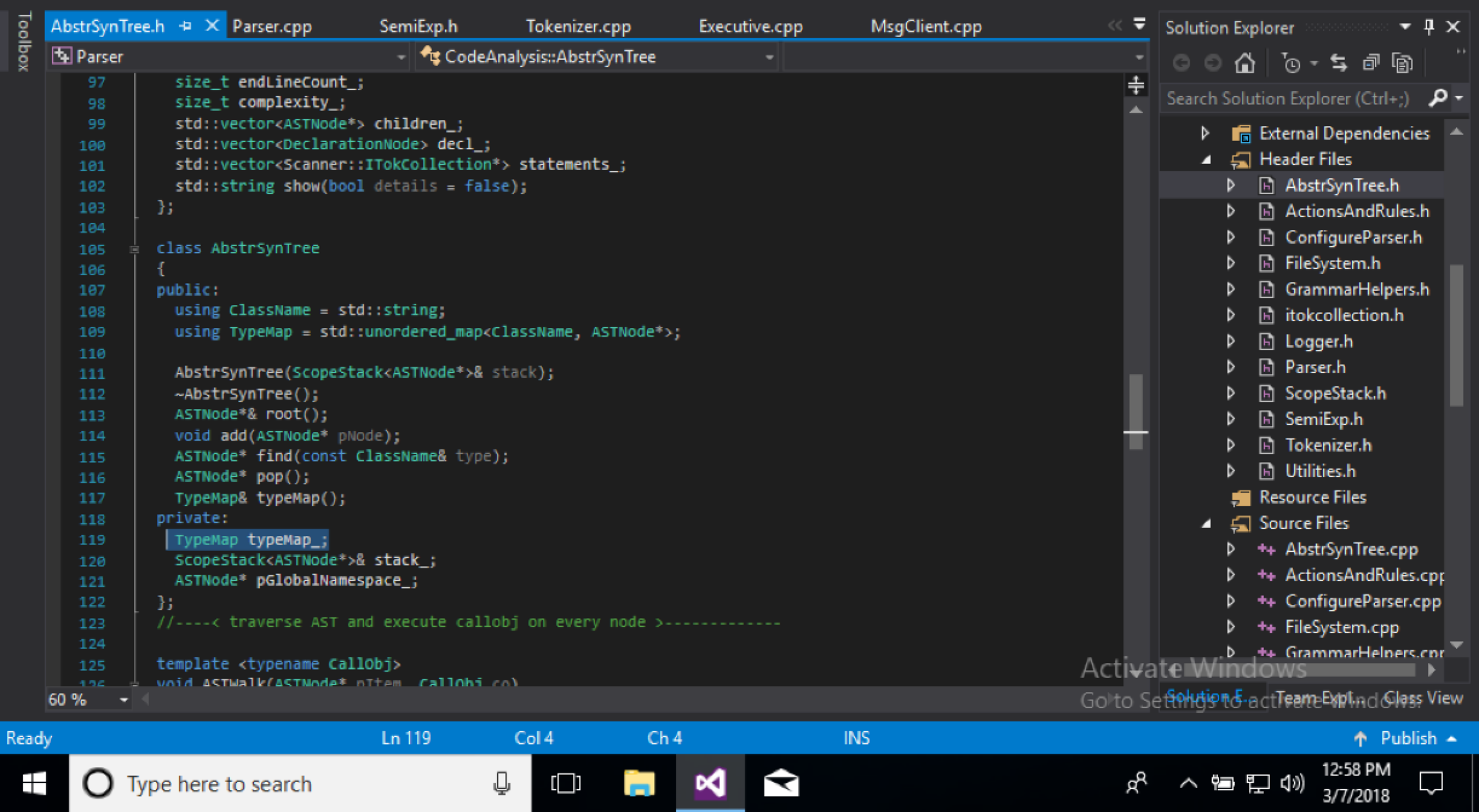
![A screenshot of a cell phone

Description generated with high confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEASABIAAD/4S2eRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDE3OjEwOjI1IDAxOjIzOjMxAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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CMBAAAAAAAAN1ADAAAAAABQSwYHAAAAAFpRAwAAAAAAAQAAAFBLBQb/////////////////////AAA=)

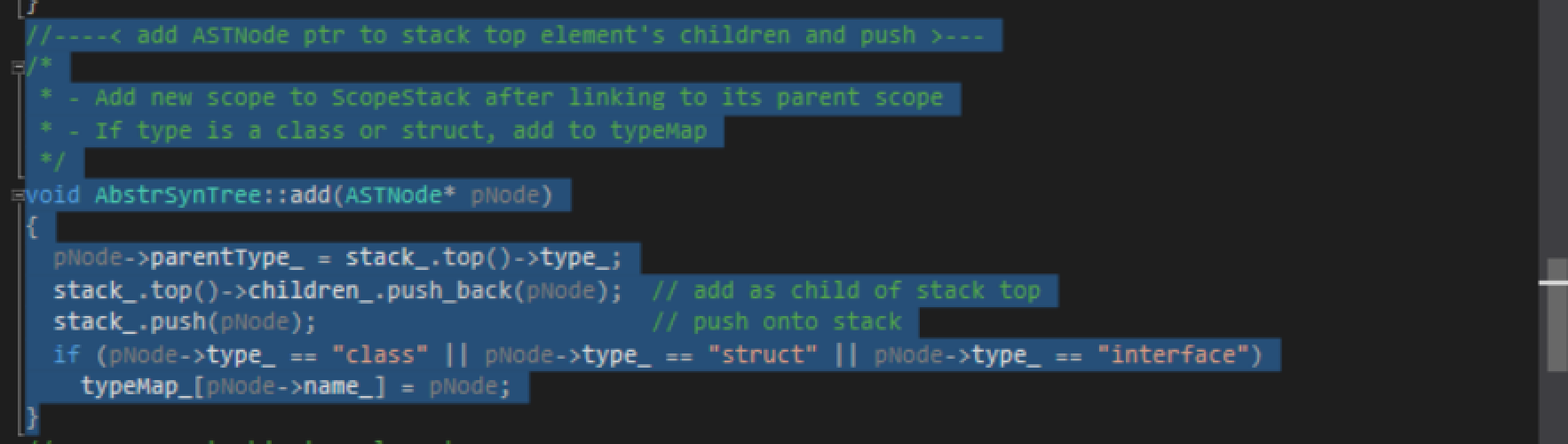
This is the heart of the Configuration Parser where the tokenizer, semi expression, parser and Repository are configured. The semi Expression is configured with tokenizer. The parser is configured with Semi Expression. The repository is a singleton instance used later for Abstract Syntax Tree building. For example, the parser is configured with begin scope rule, and the begin scope rule is configured with Begin Scope Action. Each Action will add a node to the Abstract Syntax Tree.



I have added the type map structure to the Abstract Syntax Tree as highlighted below. On line 119.



The method to add a “class/interface/struct” interface to the Type Table is shown below. The node type is checked for class/struct/interface and is pushed to TypeTable for further analysis. This is my design. The ASTNode in the below function is pushed onto the stack and added as a child to the already existing Node on the top of stack. Hence the scope is maintained using stack. The unit test cases written on the Abstract Package will make things clear on how Abstract syntax tree is built. I will also attach a code snippet for reference.



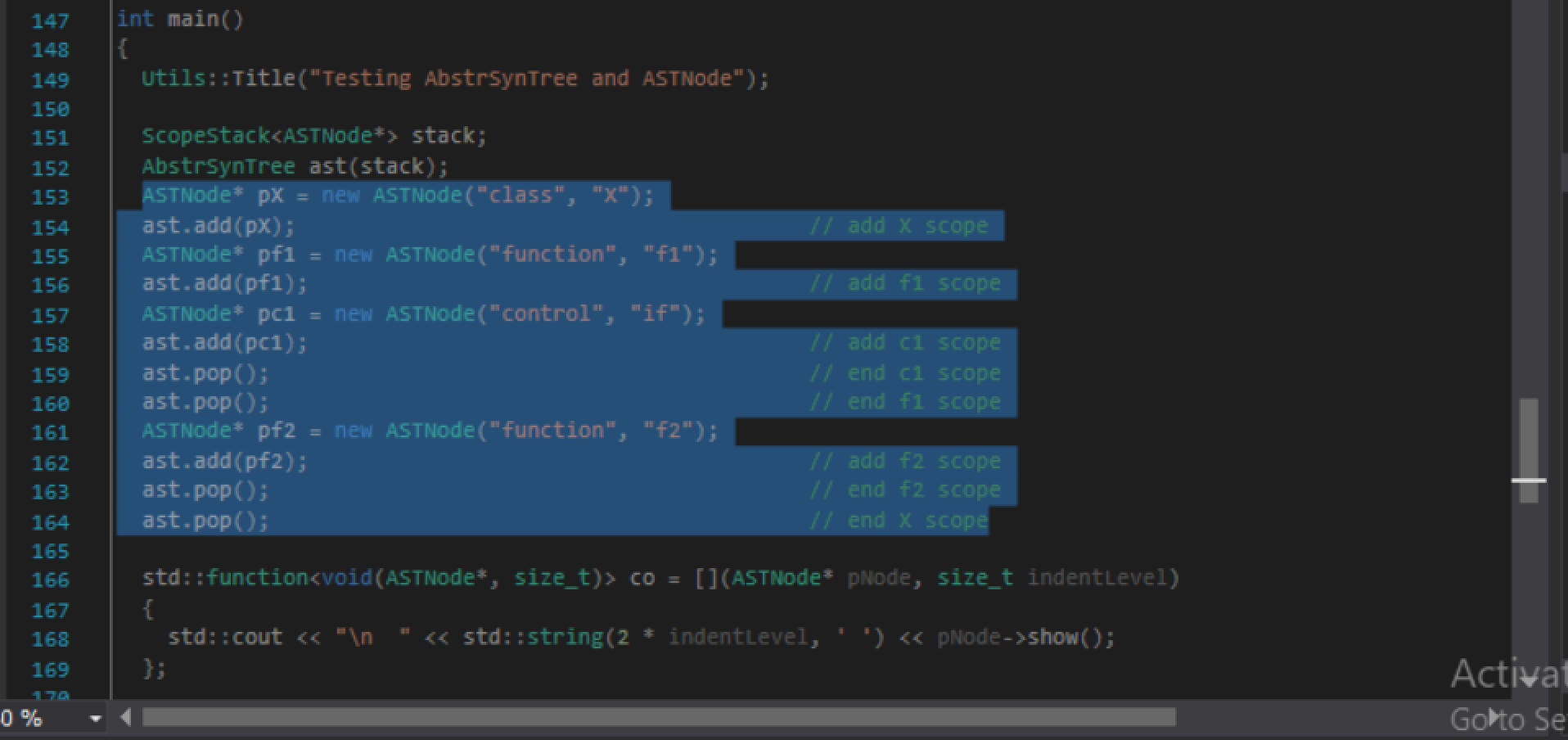
The code below from lines 153 to 164 is used to create an Abstract syntax tree for the following scope as:

class X {

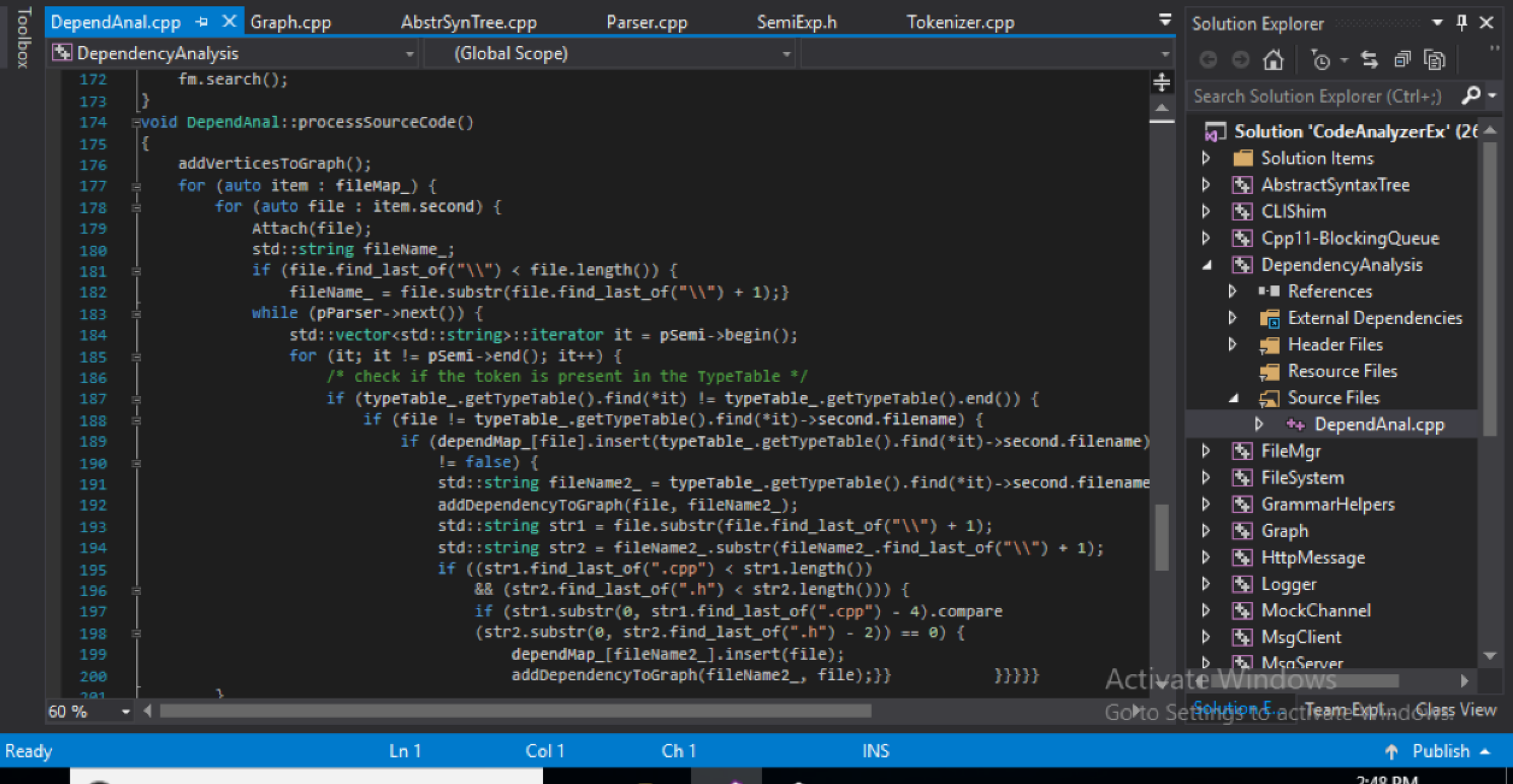
Function f1() {}

Function f2() {}

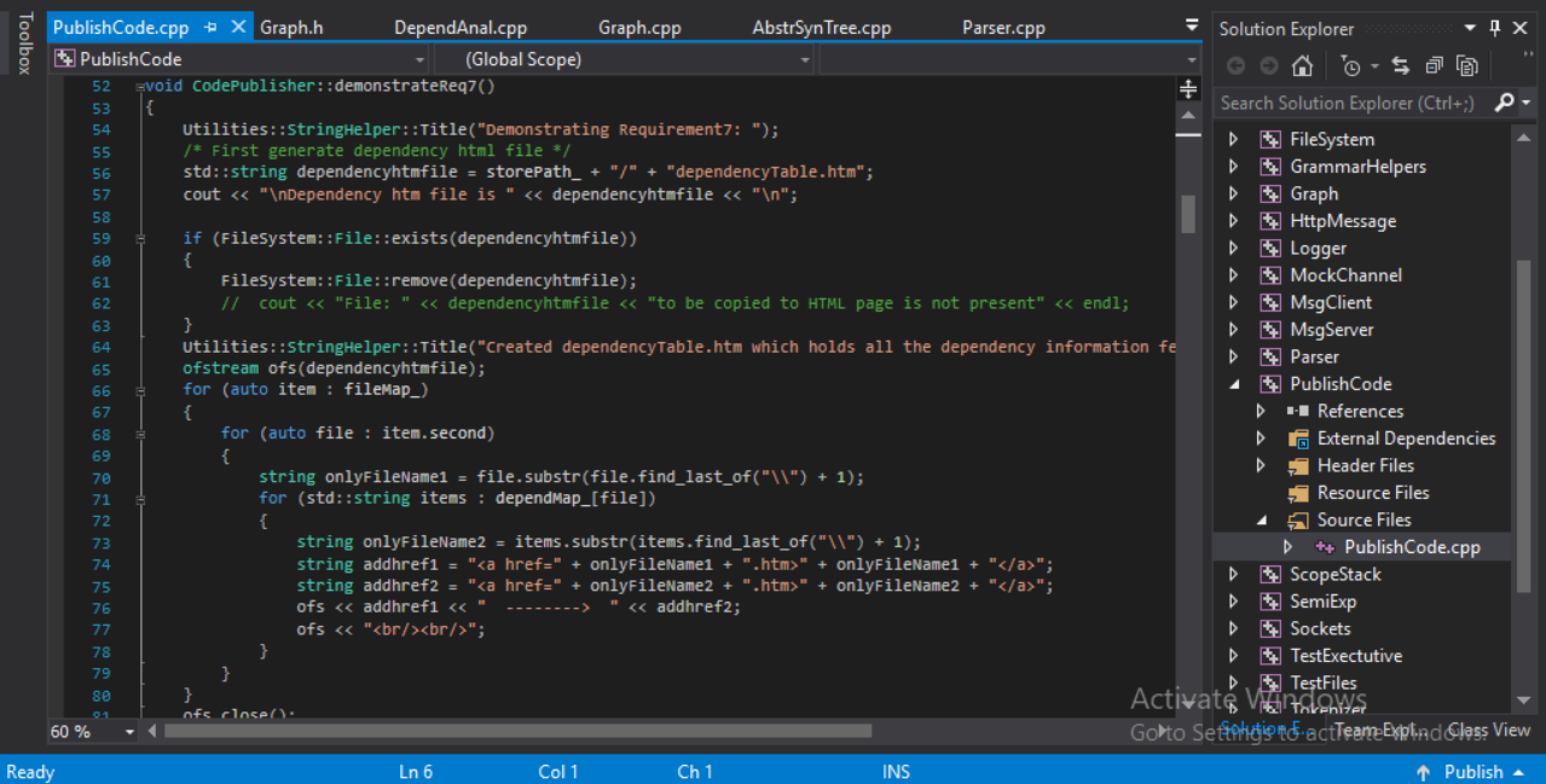
}



Finally, I have built a dependency graph between files using the type table and performed strong component analysis using Tarjen’s Algorithm. (File : <https://github.com/jashwanth/remote_code_publisher/blob/master/StrongComp/StrongComp.cpp> )The piece of code to build dependency graph is shown below. One design rule I have followed always adds a pair of cpp and header files as dependents which are done in lines 192 and 200.



Please observe hyperlinks added by me on the top of each html with its dependencies in the code below (File reference: <https://github.com/jashwanth/remote_code_publisher/blob/master/PublishCode/PublishCode.cpp> ). A global file named dependency.htm which contains the dependency hyperlinks fetched from the dependency graph on lines 74 and 75 below.



I have briefly described the core of design ideas and code snippets to support the ideas of the project.

------------------------------EOD----------------------------------------