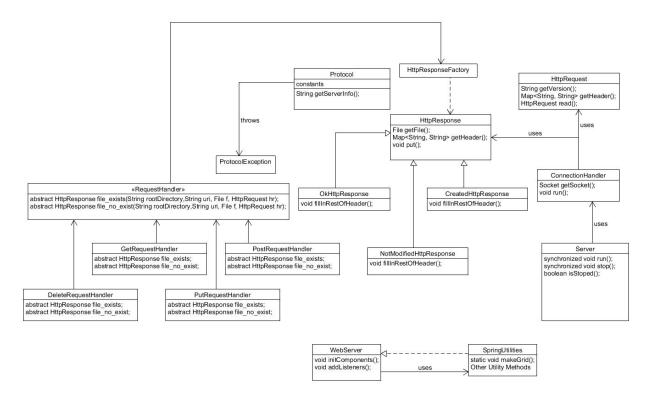
The content for this project is stored at .\csse477FinalProject\edu.rosehulman.sws\Reports

## 1. Architecture Diagram



The UML Diagram is above and the communication diagram is below.



## 2. List of Patterns

The main pattern that is used so far is the Strategy pattern. The factory pattern is also used for HttpResponse(s).

## 3. How could we improve the design?

The greatest weakness that currently exists is that multiple clients connect directly to the same server. For this approach, the client needs to know a lot of information about the remote server to be able to connect to it. And this isn't always the best for expanding systems. The server may also care what kind of device is connecting to it and need to worry about that. In this way, a server/client relationship can start to take on too much burden. The best way of improving the design would be to add in a Broker pattern or something like it.

4. Test Report (on the next page)

Connection Settin	igs				
Server Name	localhost		Port Number	8080 Conn	Connect
Sleep Time (ms)	100		Requests	10	Disconnect
Connection Requ	net.			'	
User-Agent: HttpTe					
Accept-Language:	en-US,en;q=0.8 Sun, 25 Sep 2011 23:	application/xml;q=0.9,*/*;q=0.8 :30:55 GMT			
Connection Comm	nand				
Generate Persistent Request		Generate Cache Request	Start DOS	S Attack	Send
Generate	Bad Request	Generate Version Request	Stop DOS	Attack	Clear
Connection Respo	onse				
	ent by C.R. Rupakheti	i			
content-length: 0 provider: Chandar connection: Close content-type: text/h Body	e ntml				
Header HTTP/1.1 404 Not date : Sun Oct 18 1	lished! iting for response  Found 15:42:16 EDT 2015 bServer(SWS)/1.0.0 ( n R. Rupakheti	(Windows 7/6.1/amd64)			
	lished! iting for response 	(Windows 7/6.1/amd64) T 2015			

Above is a shot of the client (browser). The log file for this scenario lives in the main project at csse477FinalProject\edu.rosehulman.sws\Reports

```
■ Console 

□
WebServer [Java Application] C:\Program Files\Java\jre1.8.0_40\bin\javaw.exe (Oct 18, 2015, 3:41:39 PM)
----- Header -----
DELETE /index.html HTTP/1.1
if-modified-since: Sun, 25 Sep 2011 23:30:55 GMT
content-length: 12
accept-language: en-US,en;q=0.8
host: localhost
connection: Keep-Alive
user-agent: HttpTestClient/1.0
accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
----- Body -----
Hello World!-----
------ Header -----
POST /index.html HTTP/1.1
if-modified-since: Sun, 25 Sep 2011 23:30:55 GMT
content-length: 12
accept-language: en-US,en;q=0.8
host: localhost
connection: Keep-Alive
user-agent: HttpTestClient/1.0
accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
----- Bodv -----
Hello World!-----
----- Header ------
GET /index.html HTTP/1.1
if-modified-since: Sun, 25 Sep 2011 23:30:55 GMT
content-length: 12
accept-language: en-US,en;q=0.8
host: localhost
connection: Keep-Alive
user-agent: HttpTestClient/1.0
accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
----- Body -----
Hello World!-----
```

Above is a shot of the server. The log file for this scenario lives in the main project at csse477FinalProject\edu.rosehulman.sws\Reports

5. The project has been bundled and turned in. This report lives in it.