

Matt Rocco
Paul Bludzius
Team **BlueRock**

Milestone 2

Change Log:

Milestone 2:

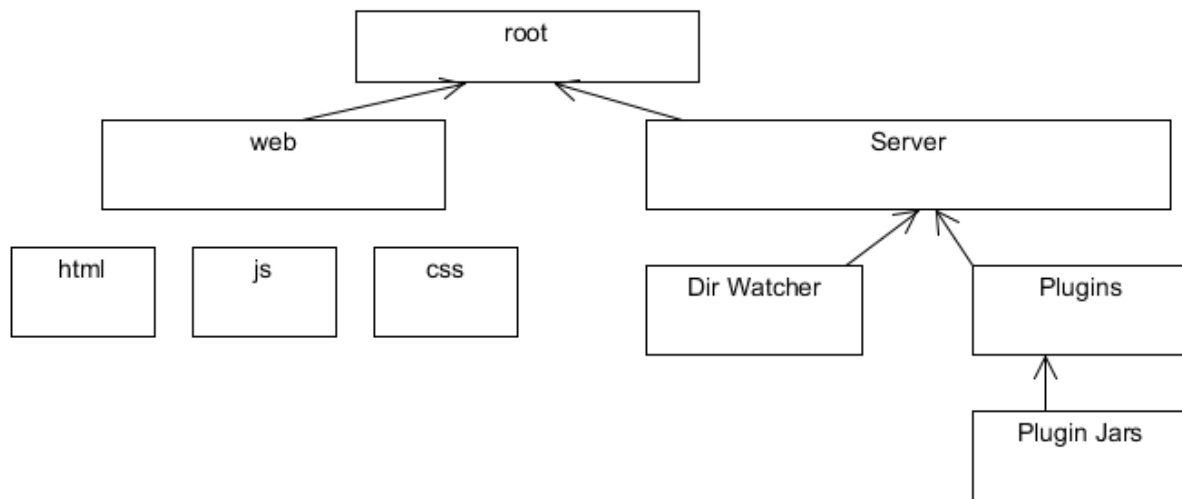
Updated Allocation, Module diagram

Added C&C Diagram

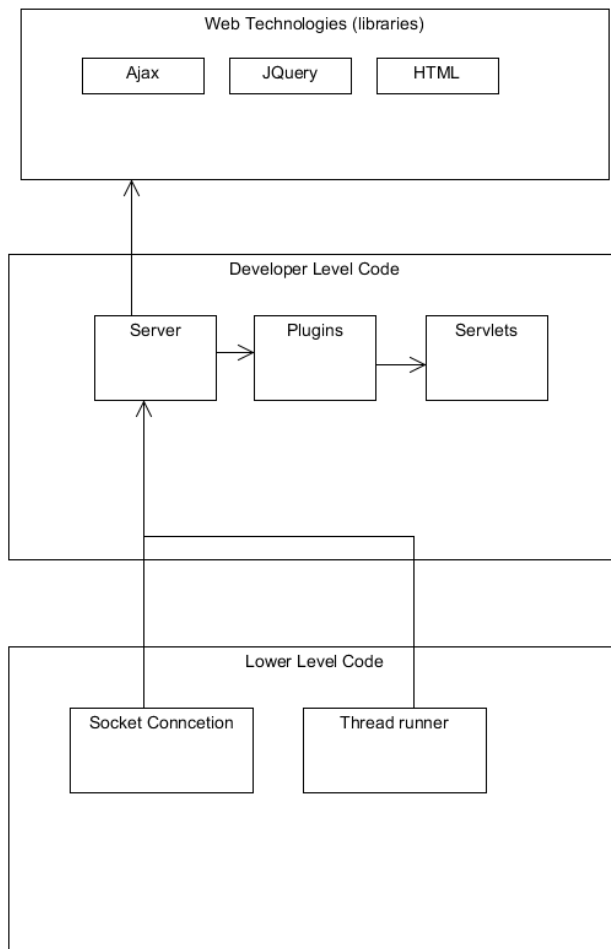
Updated UML ET diagram

Added Feature Listing

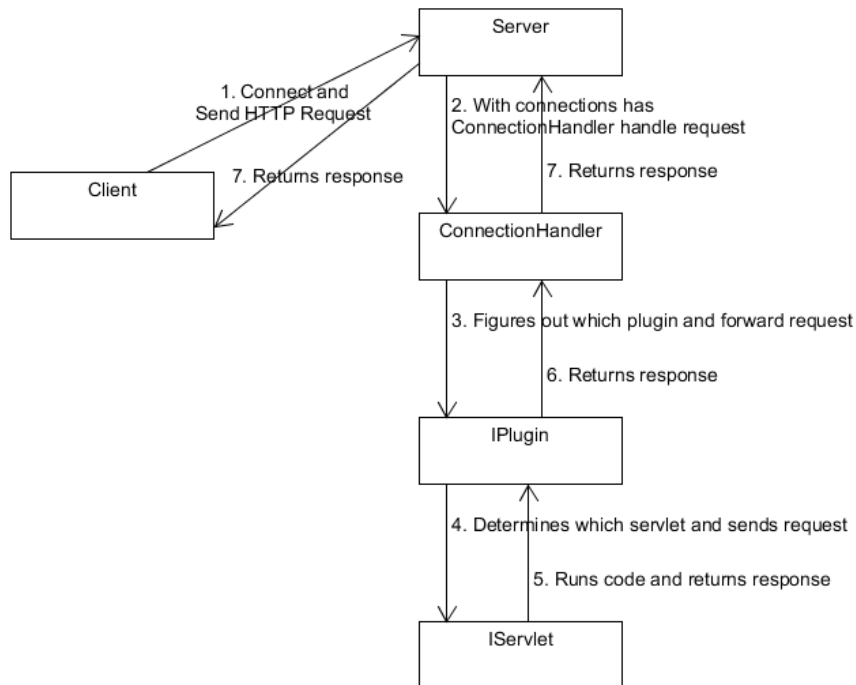
Allocation)



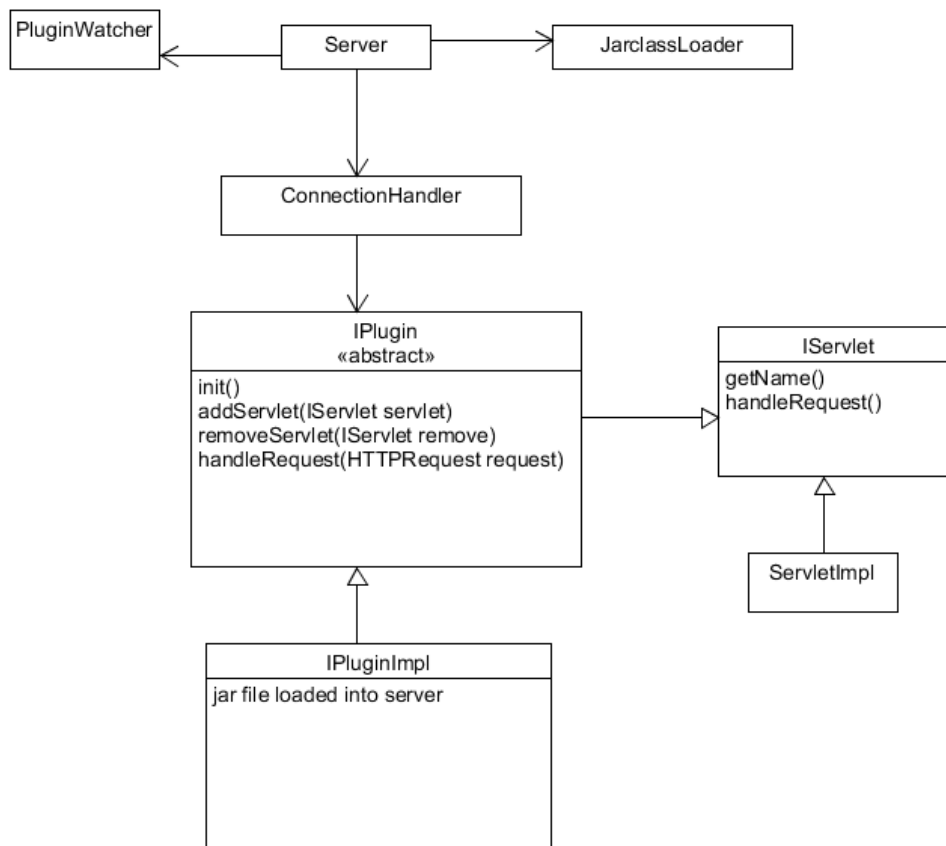
Module)



C&C



UML



4) Feature Listing

Servlets	Paul
Directory Watching	Matt
Architecture design	Paul and Matt
Jar -> Plugin	Matt
Plugin strategy pattern	Paul

5) Test Report

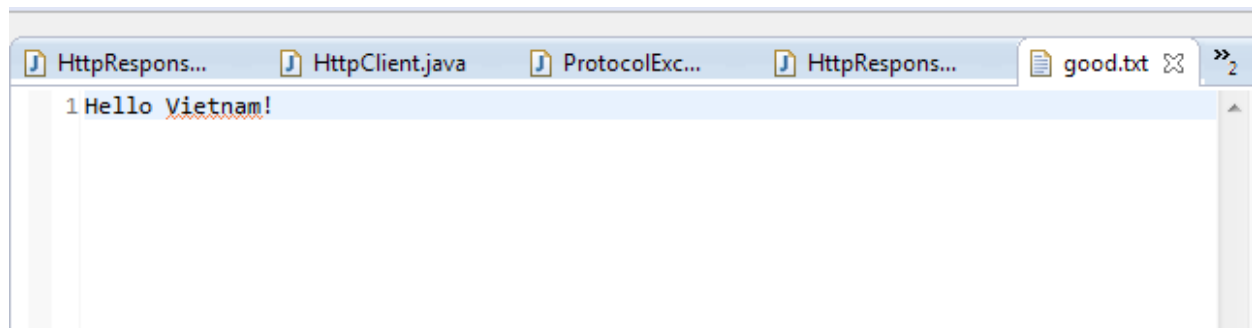
Adding the plugin jars to the server.

The screenshot displays an IDE interface with a project structure on the left and a console window on the right. The project structure shows a 'web' directory containing 'good.txt', 'index.html', 'TestPlugin.jar', and 'plugins.txt'. It also includes a 'JRE System Library [JavaSE-1.7]' and a 'edu.rosehulman.sws.testutility [JavaWebS]' package. The console window shows the output of a Java application, including 'ENTRY_CREATE', 'Plugin:TestPlugin', and several 'Set Servlet' commands for GET, POST, and DELETE methods, followed by 'ENTRY_MODIFY'.

```
@ Javadoc Declaration Search Console
WebServer (1) [Java Application] C:\Program Files\Java\jre1.8.0_60\bin\j
ENTRY_CREATE
Plugin:TestPlugin
Set Servlet:GET:FileGood
Set Servlet:POST:FileGood
Set Servlet:DELETE:FileGood
Set Servlet:GET:TestServlet
ENTRY_MODIFY
```

```
@ Javadoc Declaration Search Console
WebServer (1) [Java Application] C:\Program Files\Java\jre1.8.0_6
ENTRY_CREATE
Plugin:TestPlugin
Set Servlet:GET:FileGood
Set Servlet:POST:FileGood
Set Servlet:DELETE:FileGood
Set Servlet:GET:TestServlet
ENTRY_MODIFY
ENTRY_CREATE
Plugin:TestPlugin
Set Servlet:GET:FileGood
Set Servlet:POST:FileGood
Set Servlet:DELETE:FileGood
Set Servlet:GET:TestServlet
ENTRY_MODIFY
```

Having text file.



```
----- Header -----
GET /TestPluginTwo/FileGood HTTP/1.1
accept-language: en-US,en;q=0.8
host: localhost:8080
connection: keep-alive
content-type: text/plain; charset=utf-8
accept-encoding: gzip, deflate, sdch
user-agent: Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/46.0.2490.80 Safari/537.36
accept: */*
----- Body -----
```

Looking for plugin for TestPluginTwo
Looking for SERVLET for FileGood
Uri:GET:FileGood

Get text and it returns content, "Hello Vietnam!"

http://localhost:8080/TestPluginTwo/FileGood

☒ GET ☐ POST ☐ PUT ☐ PATCH ☐ DELETE ☐ HEAD ☐ OPTIONS ☐ Other

Raw Form Headers

Clear Send

Status: 200 OK Loading time: 34 ms

Request headers: User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/46.0.2490.80 Safari/537.36
Content-Type: text/plain; charset=utf-8
Accept: */*
Accept-Encoding: gzip, deflate, sdch
Accept-Language: en-US,en;q=0.8

Response headers: Server: SimpleWebServer(SWS)/1.0.0 (Windows 7/6.1/amd64)
Connection: Close
Last-Modified: Mon Oct 26 02:43:31 EDT 2015
Content-Length: 14
Date: Mon Oct 26 02:45:18 EDT 2015
Provider: Chandan R. Rupakheti
Content-Type: text/plain

Raw Parsed Response

Open output in new window Copy to clipboard Save as file Open in JSON tab

Hello Vietnam!

Code highlighting thanks to [Code Mirror](#)

Run Delete Http Request

http://localhost:8080/TestPluginTwo/FileGood

☐ GET
 ☐ POST
 ☐ PUT
 ☐ PATCH
 ☒ DELETE
 ☐ HEAD
 ☐ OPTIONS
 ☐ Other

Raw Form Headers

Raw Form Files (0) Payload

[Encode payload](#)
[Decode payload](#)

application/x-www-form-urlencoded
 Set "Content-Type" header to overwrite this value.

Clear Send

Status: 200 OK Loading time: 7 ms

Request headers:

User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/46.0.2490.80 Safari/537.36

Origin: chrome-extension://hgml0ofddffdnphfgcellkdfbfjeloo

Content-Type: application/x-www-form-urlencoded

Accept: */*

Accept-Encoding: gzip, deflate, sdch

Accept-Language: en-US,en;q=0.8

Response headers:

Server: SimpleWebServer(SWS)/1.0.0 (Windows 7/6.1/amd64)

Connection: Close

Date: Mon Oct 26 02:49:44 EDT 2015

Provider: Chandan R. Rupakheti

Raw Response

[Word unwrap](#)
[Copy to clipboard](#)
[Save as file](#)

Response does not contain any data.

```

----- Header -----
DELETE /TestPluginTwo/FileGood HTTP/1.1
accept-language: en-US,en;q=0.8
origin: chrome-extension://hgml0ofddffdnphfgcellkdfbfjeloo
host: localhost:8080
connection: keep-alive
content-type: application/x-www-form-urlencoded
accept-encoding: gzip, deflate, sdch
user-agent: Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/46.0.2490.80 Safari/537.36
accept: */*
----- Body -----

```

Looking for plugin for TestPluginTwo
 Looking for SERVLET for FileGood
 Uri:DELETE:FileGood

The file is gone after refreshing.

```

└─ web
  └─ index.html
  └─ TestPlugin.jar
  └─ TestPluginTwo.jar
  └─ plugins.txt

```

6) Improvements –

- Add a load balancing server
- Add a way to prevent DDOS attacks.

Ensure we have get more important tasks done fast by having a priority scheduling queue

7) Our code is written in a way using descriptive variable and function names that it does not need additional commenting.