Email: wanq.wenbo@husky.neu.edu

GitHub: https://github.com/wenbowanghaha/cs6650

Assignment 1

Design Overview:

First I set up both server and client classes, and then basing on the client, I created single thread client and multi-thread client, which has the main function as the entry point of the program. Plus, I created another class to record all the measurements for each thread, make the metrics calculations convenient.

My Github: https://github.com/wenbowanghaha/cs6650

Step 4:

```
Project +
                                                                                                                            🔾 🛨 🗘 — © MyResource.java × © MyClient.java × © MySingleThreadClient.java ×
              assignment1 ~/Documents/GitHi 141
       assignment1 ~/Documents/GitHi

idea

idea

is src

imain

idea

imain

idea

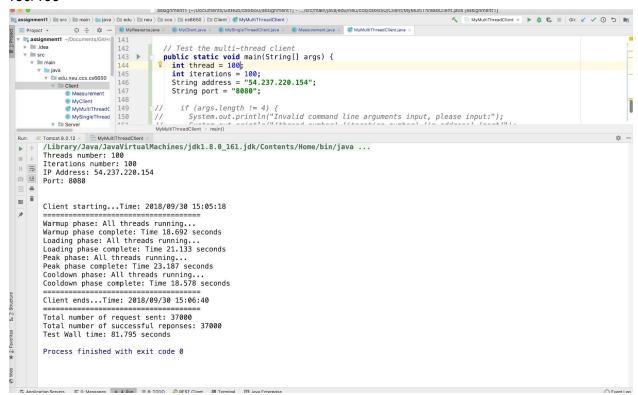
imain

idea

                                                                                                                                                                                                                                                                                                                   // Test the multi-thread client
public static void main(String[] args) {
  int thread = 20;|
  int iterations = 100;
  String address = "54.237.220.154";
  String port = "8080";
                                                                                                                                                                                                                                       143
                                             | MyClient | 148 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 | 149 |
                                                                                                                                                                                                                                                                                                                   if (args.length != 4) {
    // System.out.println("Invalid command line arguments input, please input:");
    // System.out.println("Invalid command line arguments input:");
    // System.out.print
                                                                                                                    © MySingleThread 150
Server 151
                                             ₹ Tomcat 9.0.12 ×
                                                           /Library/Java/JavaVirtualMachines/jdk1.8.0_161.jdk/Contents/Home/bin/java ... Threads number: 20
                                                           Iterations number: 100
IP Address: 54.237.220.154
Port: 8080
Client starting...Time: 2018/09/30 14:59:19
                                                      Warmup phase: All threads running...
Warmup phase complete: Time 18.549 seconds
Loading phase: All threads running...
Loading phase complete: Time 20.966 seconds
Peak phase: All threads running...
Peak phase complete: Time 19.616 seconds
Cooldown phase: All threads running...
                                                           Cooldown phase complete: Time 18.114 seconds
                                                           Client ends...Time: 2018/09/30 15:00:36
                                                              Total number of request sent: 7400
                                                           Total number of successful reponses: 7400 Test Wall time: 77.427 seconds
                                                              Process finished with exit code 0
```

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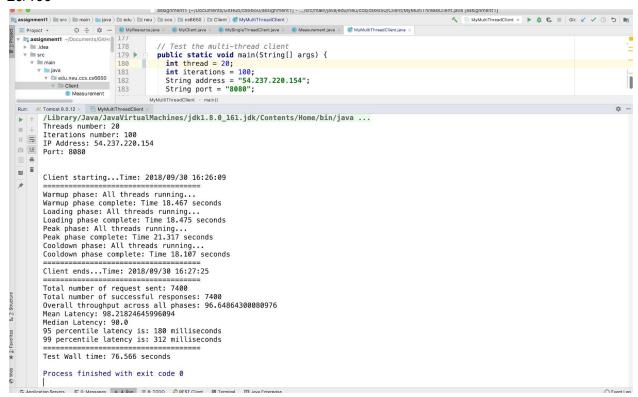
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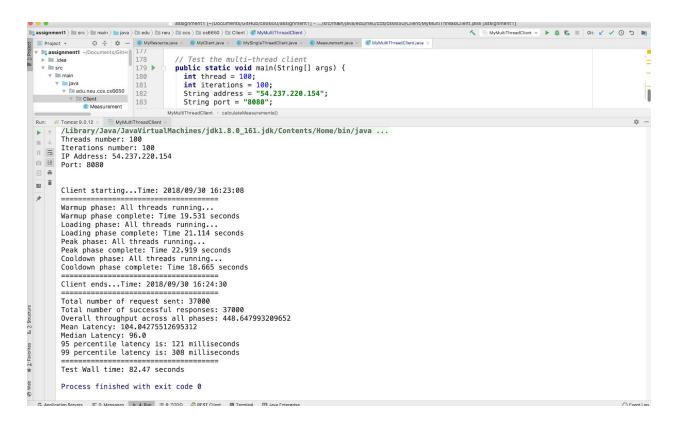
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Step 5:



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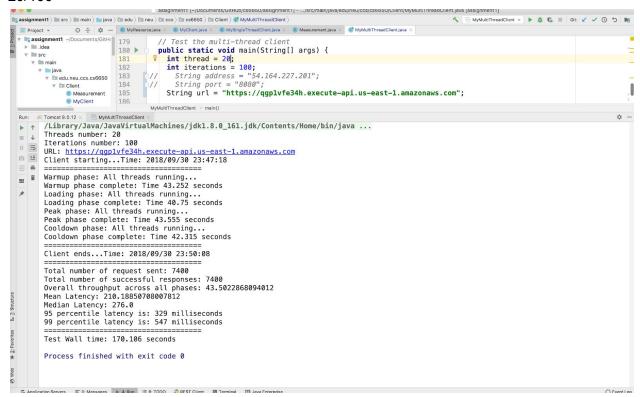
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Step 6:



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