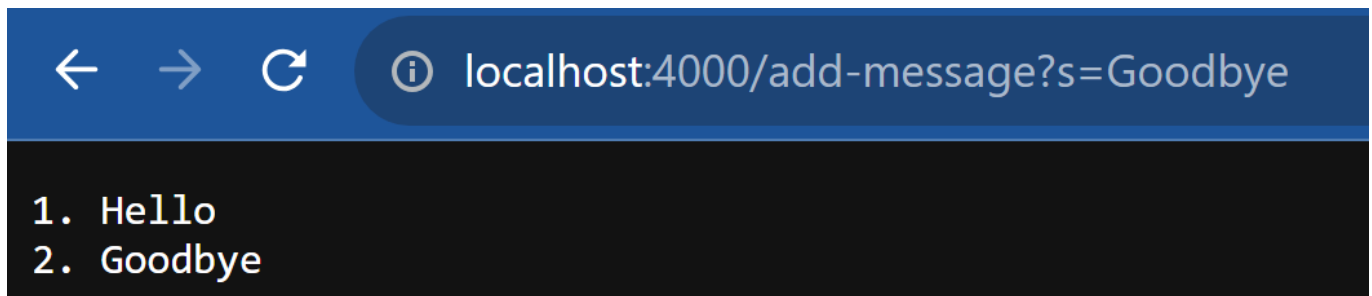


Lab Report 2 - Servers and SSH Keys (Week 3)

Part 1



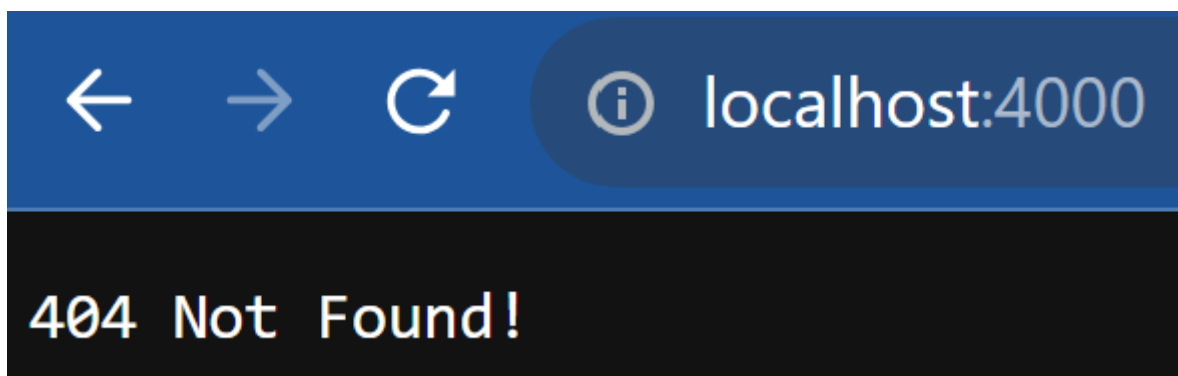
- Which methods in your code are called?
 - The `handleRequest` method is called
- What are the relevant arguments to those methods, and the values of any relevant fields of the class?
 - The URI `http://localhost:4000/add-message?s=Goodbye` is the only argument
 - At the point of the request, the `history` field would be

```
1. Hello
```

- The `num` field would be `2`
- How do the values of any relevant fields of the class change from this specific request? If no values got changed, explain why.
 - This request would add the word "Goodbye", so the new `history` field would be

```
1. Hello
2. Goodbye
```

- The `num` field would change to `3`



- Which methods in your code are called?

- The `handleRequest` method is called
- What are the relevant arguments to those methods, and the values of any relevant fields of the class?
 - The URI `http://localhost:4000` is the only argument
 - At the point of the request, the `history` field would be

```
1. Hello
2. Goodbye
```

- The `num` field would be `3`
- How do the values of any relevant fields of the class change from this specific request? If no values got changed, explain why.
 - No values would change because it's an invalid URL

Part 2

```
PS C:\Users\paksh\.ssh> ls
```

```
Directory: C:\Users\paksh\.ssh
```

Mode	LastWriteTime	Length	Name
-a----	10/5/2022 12:58 am	69	config
-a----	8/5/2022 9:06 pm	399	id_ed25519
-a----	8/5/2022 9:06 pm	89	id_ed25519.pub
-a----	10/5/2022 12:33 am	3389	id_rsa
-a----	10/5/2022 12:33 am	749	id_rsa.pub
-a----	17/10/2023 12:22 pm	1369	known_hosts
-a----	10/5/2022 12:40 am	276	known_hosts.old
-a----	14/5/2022 10:36 pm	1458	privkey.ppk
-a----	14/5/2022 10:36 pm	477	pubkey

The path to my private key is `C:\Users\paksh\.ssh\id_rsa` and the path to my public key is `C:\Users\paksh\.ssh\id_rsa.pub`

Logging in to ieng6 without needing a password

```
PS C:\Users\paksh\.ssh> ssh cs15lfa23lq@ieng6.ucsd.edu
Last login: Sat Jun 10 14:49:38 2023 from 128.54.208.50
quota: Cannot resolve mountpoint path /home/linux/staff/.snapshot/hourly.2023-10-03_0801: Stale file handle
Hello cs15lfa23lq, you are currently logged into ieng6-201.ucsd.edu
```

You are using 0% CPU on this system

Cluster Status

Hostname	Time	#Users	Load	Averages
ieng6-201	13:40:01	12	2.31,	2.09, 2.00
ieng6-202	13:40:01	7	1.73,	0.64, 0.35
ieng6-203	13:40:01	7	0.43,	0.28, 0.25

Tue Oct 17, 2023 1:42pm - Prepping cs151fa23
[cs151fa23lq@ieng6-201]:~:17\$

Part 3

One thing I learned was that the `scp` command can be used to copy files from one computer to another. This is useful because it allows me to transfer files between my computer and the ieng6 server. Another thing I learned was that the `ssh` command can be used to log into a remote server. This is useful because it allows me to access the ieng6 server from my computer. The last thing I learned was that the `ssh-keygen` command can be used to generate a public and private key pair. This is useful because it allows me to log into the ieng6 server without needing to enter a password.