

# K. O. P Web Server

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# /Framework – B/S structure



Java



+ HTML



+ JavaScript



+ CSS



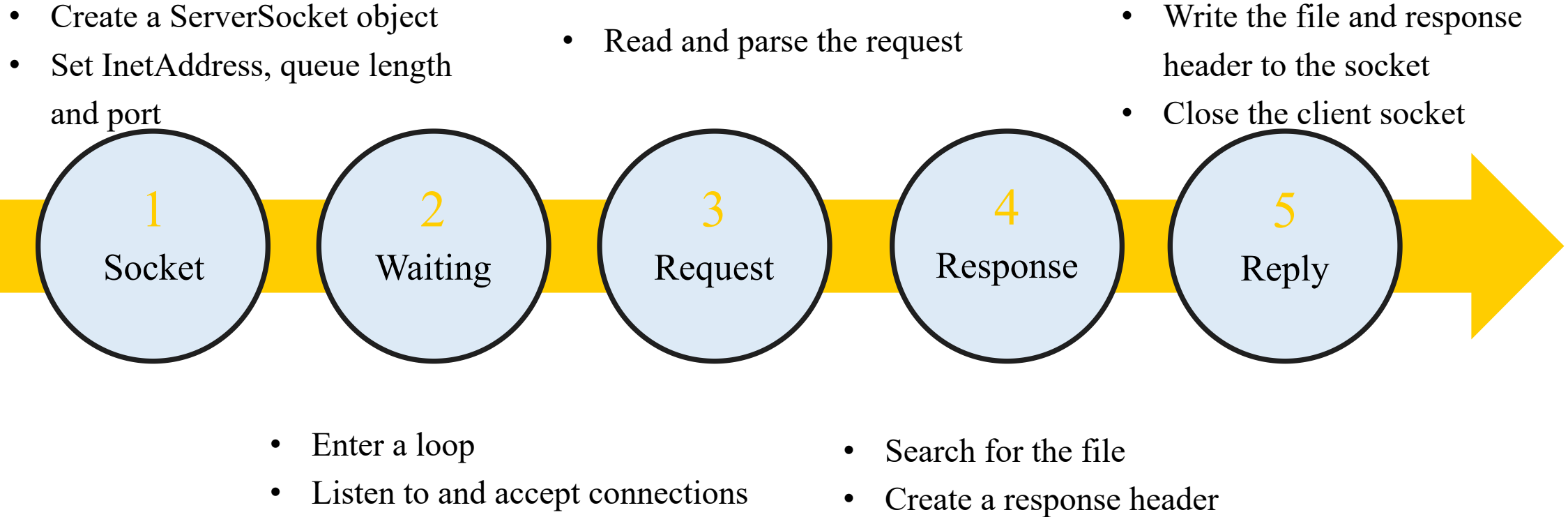
Socket-based web server



Socket-based web browser

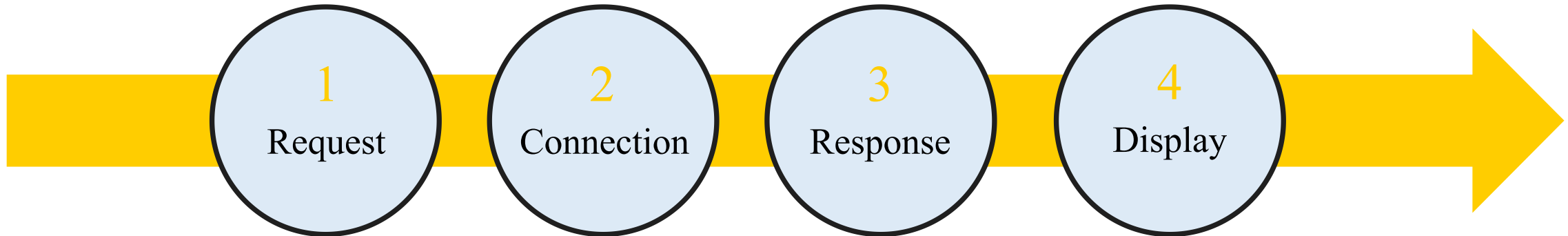


## / Mechanism – Server



## /Mechanism – Browser

- Establish a request containing server's InetAddress, port and path
- Receive and parse the response



- Send the request
- Connect to the ServerSocket
- Display the file on the browser

## / Mechanism – Packages

### Socket

```
import java.net.InetAddress;  
import java.net.ServerSocket;  
import java.net.Socket;
```

### Response & Request

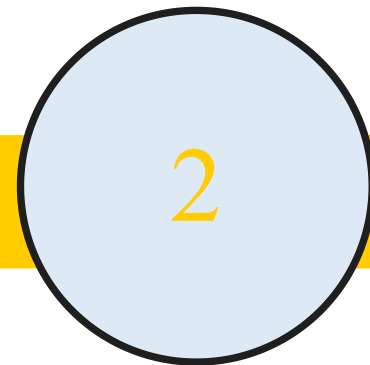
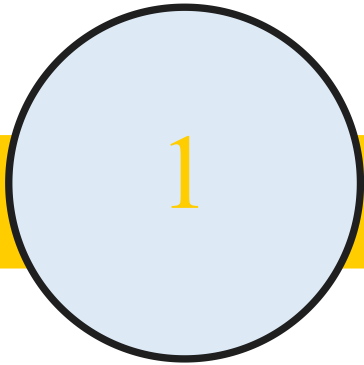
```
import java.io.PrintStream
```

### File read & write

```
import java.io.FileInputStream  
import java.io.FileOutputStream  
import java.io.OutputStreamWriter  
import java.io.BufferedWriter
```

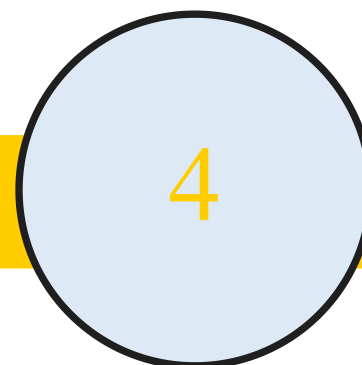
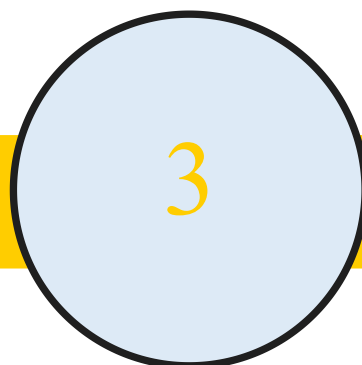
## /Selling points – 5 bonus

User-friendly  
UI



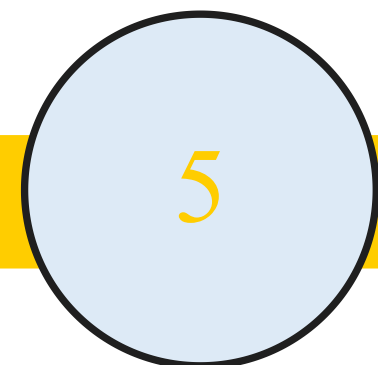
Download from  
URL and  
Button

Multi-files display  
concurrently by  
multi-browsers

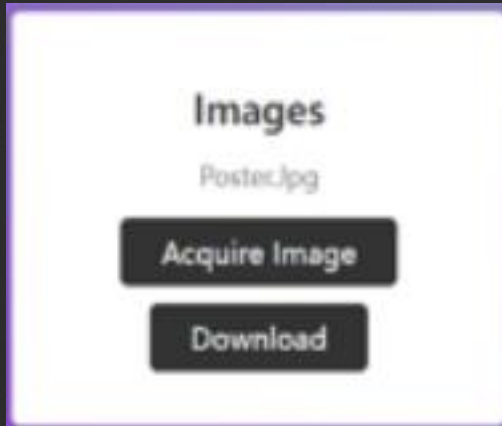


Access  
permission

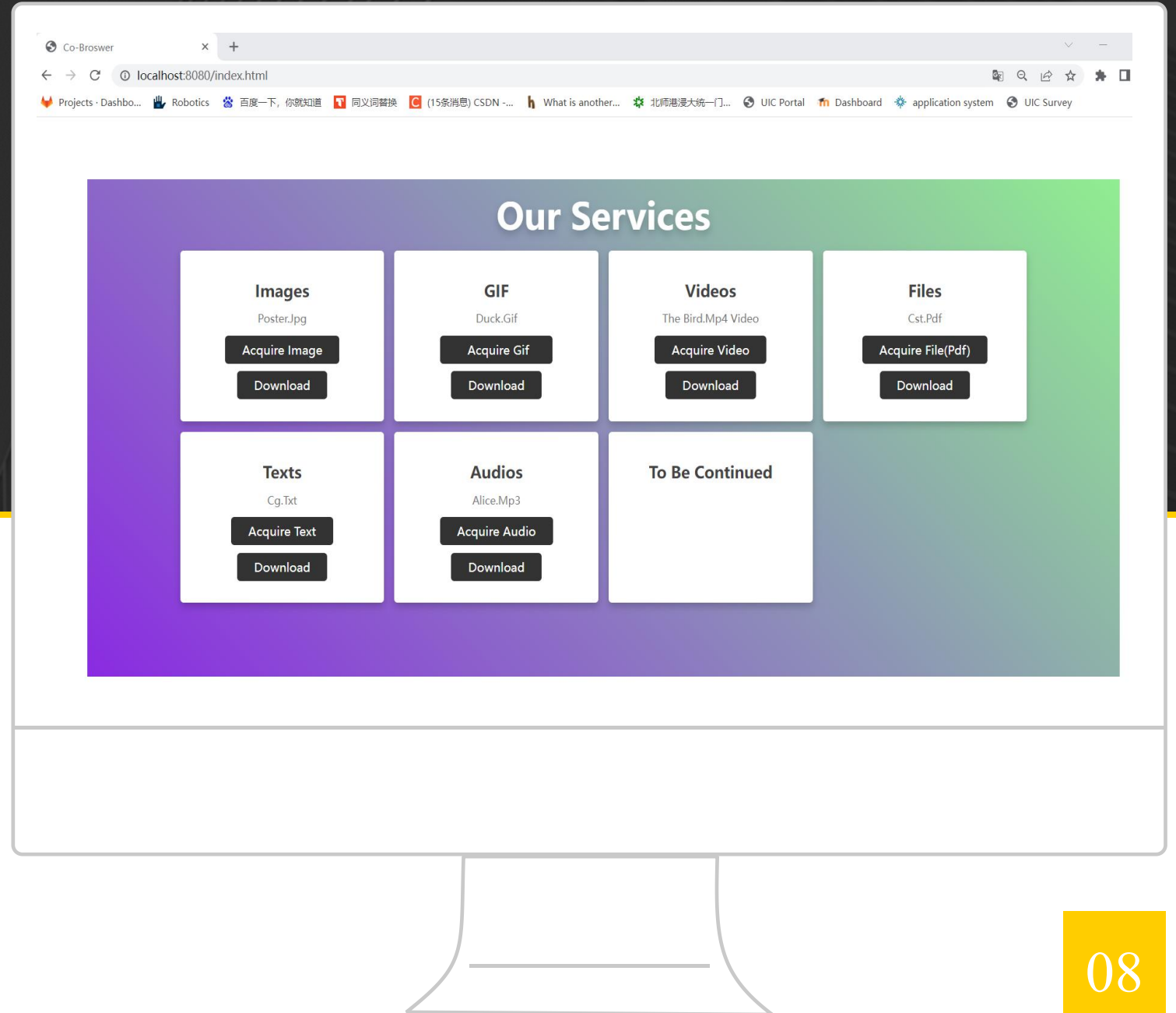
History record  
(log file)



# /Bonus 1 Interface



- Type of files be showed
- Button - acquire/download files
- Distinguish different folders





## / Bonus 2 Download

localhost:8080/download/duck.gif

### Images

Poster.Jpg

Acquire Image

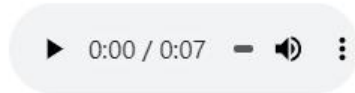
Download

bird (4).mp4 poster (4).jpg cst (2).pdf alice (4).mp3 cg (3).txt duck (2).gif

全部显示

## / Bonus 3 Multi-files

### Audios



Alice.Mp3

Acquire Audio

Download

### Audio

mp3,mpga,  
mp2,mp1,etc

### Videos



The Bird.Mp4 Video

Acquire Video

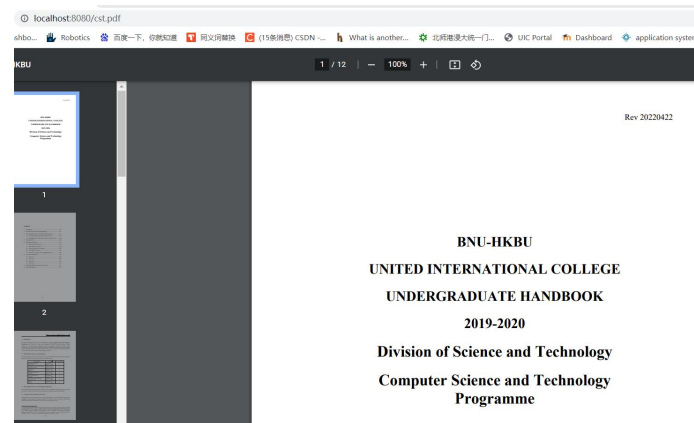
Download

### Video

m4e, mp4,  
mp2v,mpa,  
mpg,mpeg ,etc

### Image

gif, jpg,jpeg,png,etc

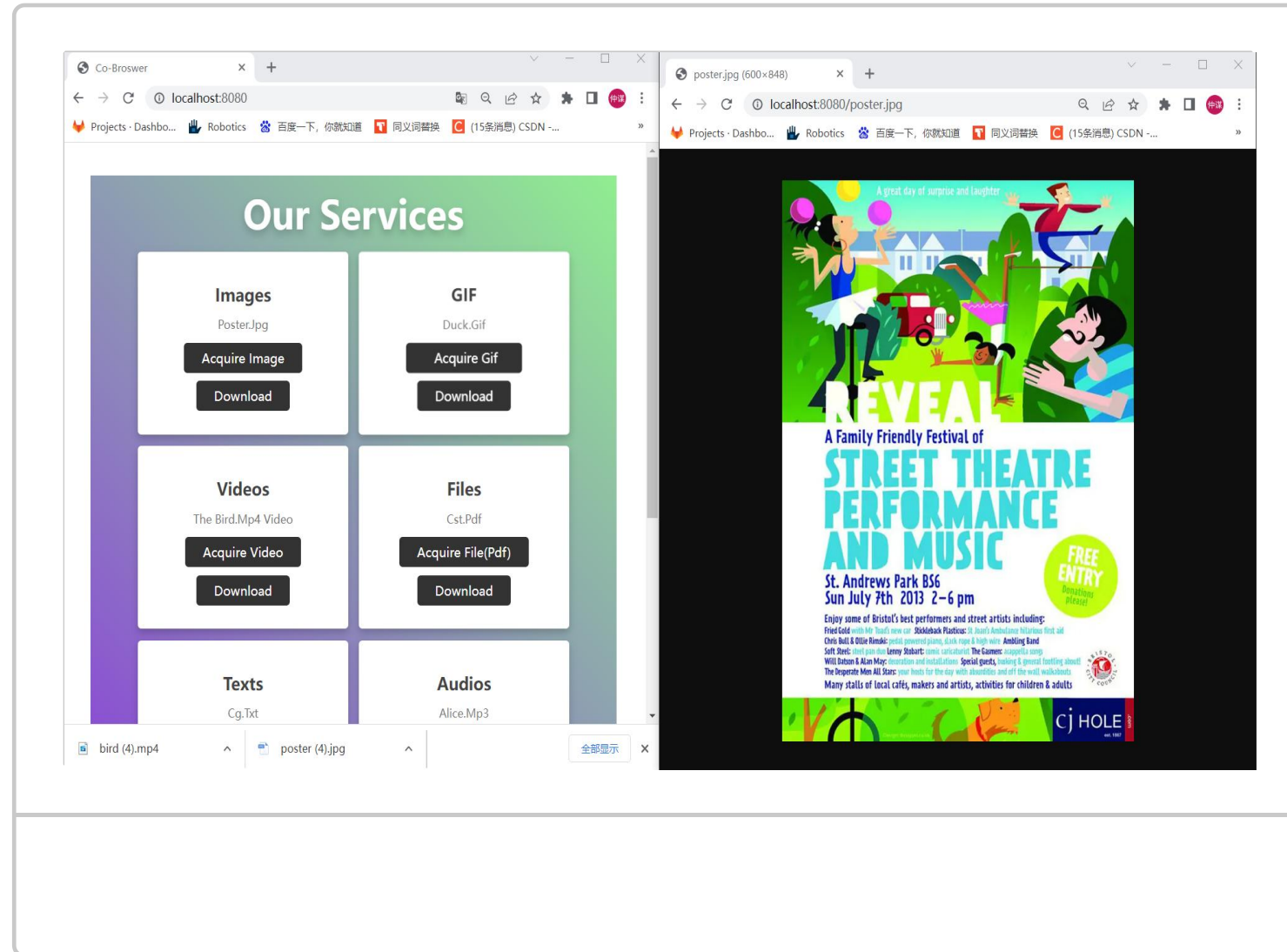


### Document

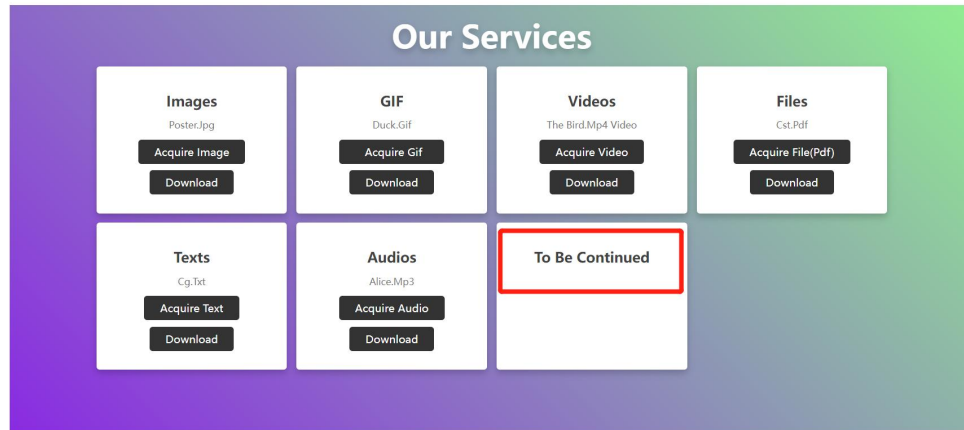
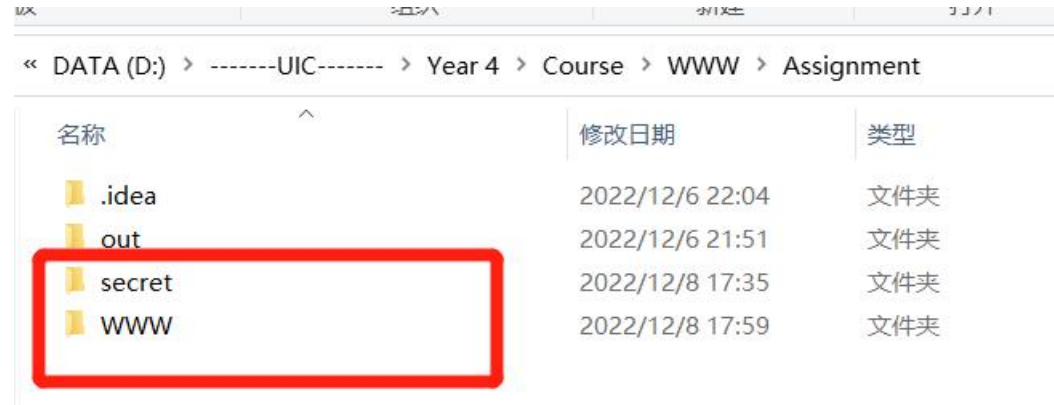
txt,pdf,html,mtx,xsl,etc

## / Bonus 3 Multi-browsers

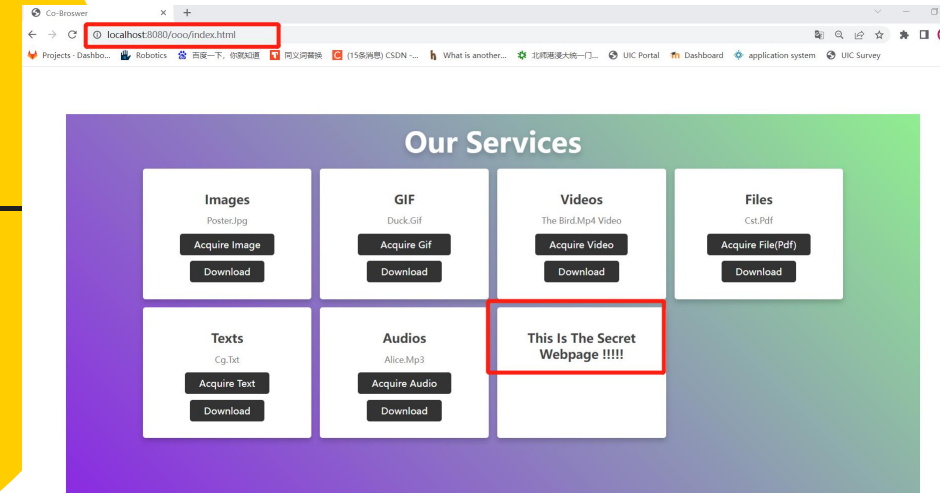
### Multi-browsers



# / Bonus 4 Access permission



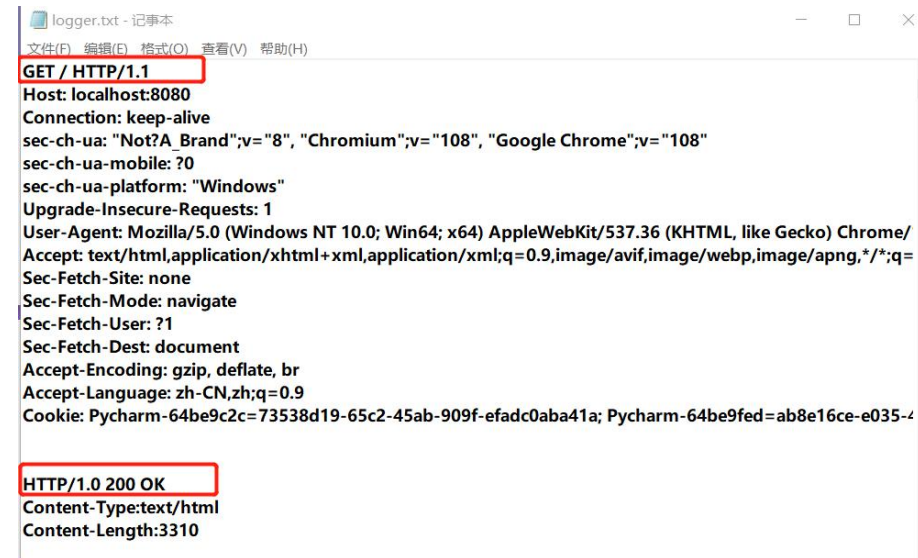
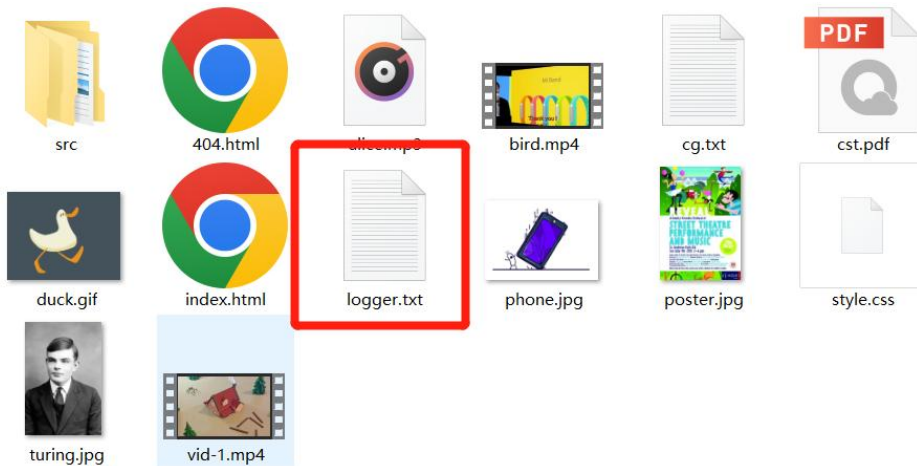
**Need to have password**



## / Bonus 5 History record

localhost:8080/ooo/logger.txt

localhost:8080/ooo/downlaod/logger.txt





# Thank you



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