



**Linnéuniversitetet**  
Kalmar Västjör

Report

**Assignment 2**  
*IDV701*



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# 1 Problem 1

```
PS C:\Users\Eco-E\Desktop\assignment2\app> gradle run --args="80 public"

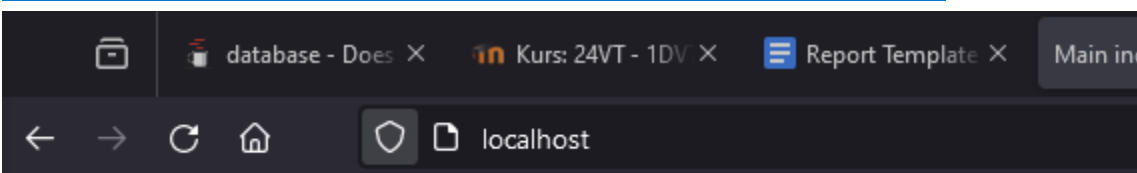
> Task :app:run
Feb 25, 2024 11:41:07 PM assignment2.HttpServer start
INFO: Server started
Listening for messages from port: 80
<=====--> 75% EXECUTING [3s]
> :app:run
```

We decided to use the Gradle compiler, to compile our code, because of the added complexity of managing multiple files. Therefore it is easier for both sides.

To run Gradle: `gradle run --args="80 public"`

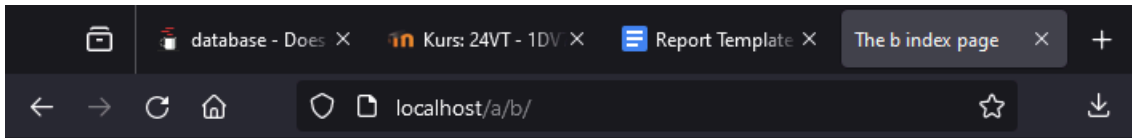
```
Request Method: POST
URI: /login
Protocol: HTTP/1.1
Headers:
Origin: http://localhost
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:123.0) Gecko/20100101 Firefox/123.0
Connection: keep-alive
Referer: http://localhost/login
Sec-Fetch-Dest: document
Sec-Fetch-Site: same-origin
Host: localhost
Accept-Encoding: gzip, deflate, br
Sec-Fetch-Mode: navigate
Upgrade-Insecure-Requests: 1
Sec-Fetch-User: ?1
Accept-Language: en-US,en;q=0.5
Content-Length: 26
Content-Type: application/x-www-form-urlencoded
Body:
username=user&password=123
usernameuser
HTTP Response:
Method: HTTP/1.1
Status: 200 OK
Content-Length: 16
Content-Type: text/plain
```

```
PS C:\Users\Eco-E\Desktop\assignment2\app> python3 .\testa2u1.py
OK: Main index page
OK: Named page
OK: Named page
OK: Clown PNG
OK: Bee PNG
OK: World PNG
OK: Index a
OK: Page a
OK: Fake page b
OK: Index b
OK: Page b
OK: Fake Page c
OK: Index c
OK: Page c
OK: Page fail
OK: Page in dir fail
OK: Dir no index fail
OK: Image fail
PS C:\Users\Eco-E\Desktop\assignment2\app>
```



# Main index page

This is the main index page!



## **b index**

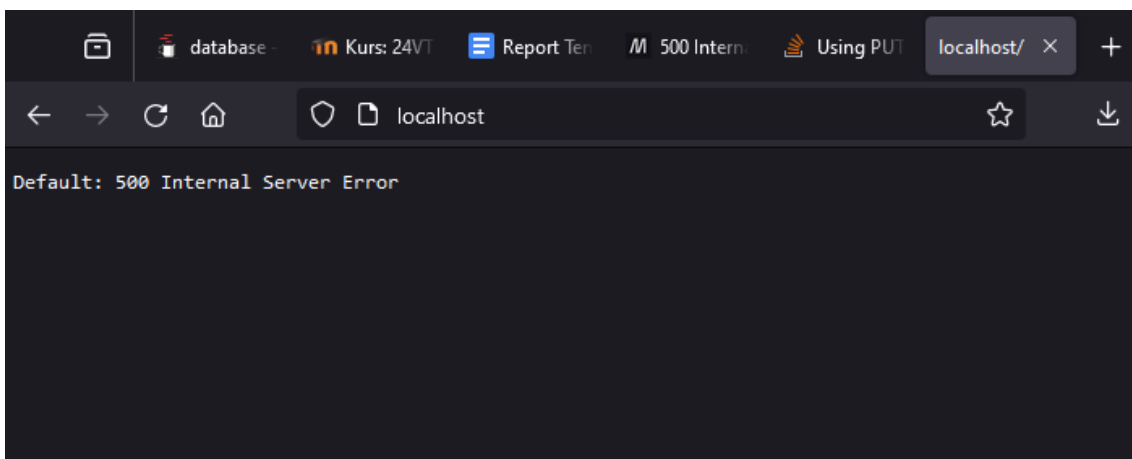
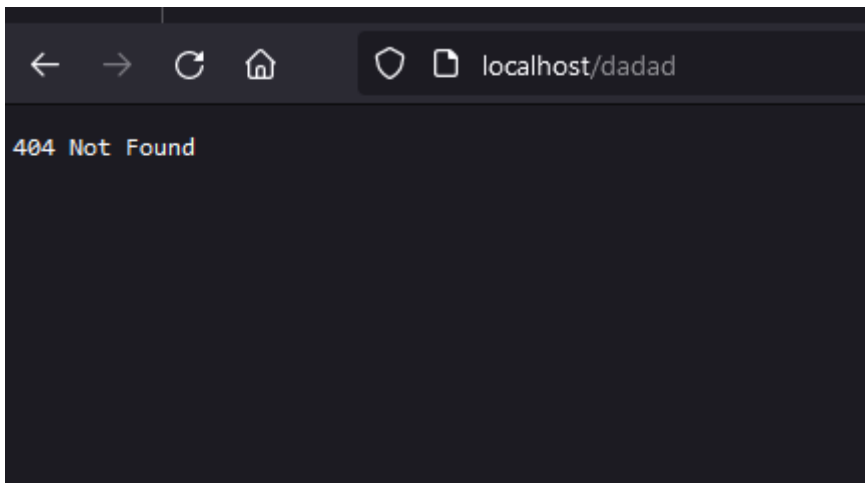
Bbbbbbbbbbbbbbb



### 1.1 Discussion

- Exception - Just catching general exceptions/errors such as binding socket ports.
- IOException - We use this exception to catch whenever a file fails to load/read from a public directory, or internal socket error.
- FileNotFoundException - we use this exception to catch an error, if the file just does not exist.

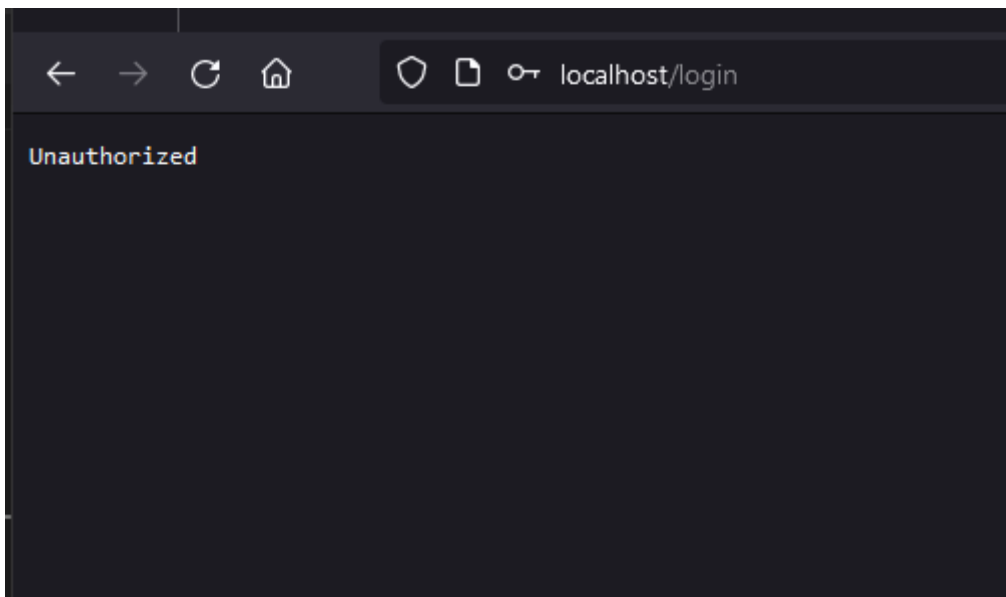
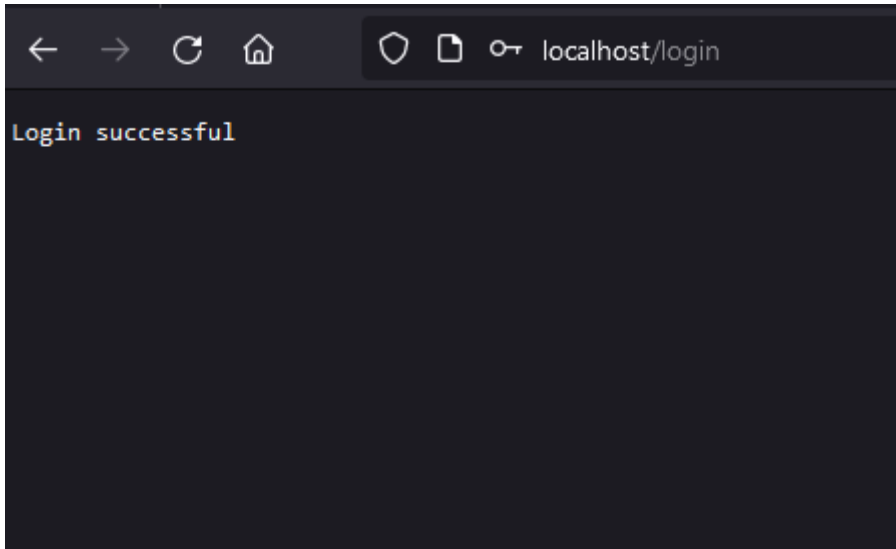
## 2 Problem 2



### 2.1 Discussion

- Internal Server Error: Whenever a user sends an unimplemented HTTP protocol request message, it will return an `INTERNAL_SERVER_ERROR`.
- Not Found: Will be triggered, if we search a file that does not exist in a public directory, and will return `NOT_FOUND`.

### 3 Problem 3



#### 3.1 Discussion

- In order to successfully login, you need to write: “user” as username, and “123” as password. Everything else will lead to Unauthorized.