

Test Cases: Simple Proxy

These test cases are to be tested when running "SimpleClient.java" as it is the only program that allows user input. Please follow test case scenarios below to view expected/actual output. Screen shots for each test case can be seen below

Test items	Inputs	Expected Outputs	Actual Outputs	Results/Remarks
1) External HTTP Request	http://google.com	Html for google.com	Html for google.com	Working for external http requests
2) External FTP request	ftp://ftp.us.dell.com/readme.txt	Readme.txt file output on console	Readme.txt file output on console	Working for external ftp requests
3) Local HTTP Request (to web server)	http://localhost:4000	Index.html output on console	Index.html output on console	Working for local web request to server.
4) local HTTP Request for folder	http://localhost:4000/folder/	403 – bad request	403 – bad request	Working for local web request to folder on server
5) local HTTP Request for non existent file on server	http://localhost:4000/asdfadsasdfadf	404 – not found	404 –not found	Working for local web request for non existent file on server
6) Random letters/numbers	Asdfasda11234212	Invalid URL	Invalid URL	Working for random letter, throws error.
7) Quit proxy server while client server is running	http://google.com	"SimpleProxyServer is down"	"SimpleProxyServer is down"	Working. Thrown error to user to indicate proxy server is down. Must be running to satisfy request.
8) Quit Webserver	CTRL-C	"Shutting down SimpleWeb Server"	"Shutting down SimpleWeb Server"	Successfully able to quit webserver
9) Quit proxyserver	CTRL-C	"Shutting down	"Shutting down	Successfully able to quit proxy

2)

Please input valid URL or type "exit" to quit program
ftp://ftp.us.dell.com/readme.txt

Trying to connect to localhost 3000
Made server connection.
Request output:

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3)

```
-----  
Welcome Client  
This program is intended to serve web requests. Please input a valid URL to fetch a page off the internet or local server  
To exit, please type "exit"  
-----
```

```
Please input valid URL or type "exit" to quit program  
http://localhost:4000
```

```
Trying to connect to localhost 3000  
Made server connection.  
Request output:
```

```
<html><body>Hello world!</body></html>
```

```
Please input valid URL or type "exit" to quit program
```

4)

```
Please input valid URL or type "exit" to quit program  
http://localhost:4000/folder/
```

```
Trying to connect to localhost 3000  
Made server connection.  
Request output:
```

```
403 Bad Request
```

```
Please input valid URL or type "exit" to quit program
```

```
■
```

5)

```
Please input valid URL or type "exit" to quit program  
http://localhost:4000/asdfadsasdfadf
```

```
Trying to connect to localhost 3000  
Made server connection.  
Request output:
```

```
404 Not Found
```

```
Please input valid URL or type "exit" to quit program
```

6)

Please input valid URL or type "exit" to quit program
Asdfasda11234212

Trying to connect to localhost 3000
Made server connection.
Request output:

Invalid URL

Please input valid URL or type "exit" to quit program
■

7)

Please input valid URL or type "exit" to quit program
http://google.com

Trying to connect to localhost 3000
Connection Refused – SimpleProxyServer is down

8)

Welcome to SimpleWebServer
This program is intended to serve as a web server for incoming client requests
To exit, please press CTRL-C or CMD-C

Connecting server socket to port...
^CShutting down SimpleWebServer...
Socket Closed

9)

Welcome to SimpleProxyServer
This program is intended to serve as a proxy of incoming client requests
To exit, please press CTRL-C or CMD-C

Connecting server socket to port...
Proxy Server running on port 3000...
Waiting for clients...

^CShutting down SimpleProxyServer...
Socket Closed

Please input valid URL or type "exit" to quit program
http://localhost:4000/sample.txt

Trying to connect to localhost 3000
Made server connection.
Request output:

THIS IS SAMPLE TEXT THAT IS WORKING

Please input valid URL or type "exit" to quit program
■

11)

Please input valid URL or type "exit" to quit program
http://localhost:4000/sample.jpg

Trying to connect to localhost 3000
Made server connection.
Request output:

THIS IS SAMPLE JPG THAT IS WORKING

Please input valid URL or type "exit" to quit program
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