RESTful Web API Design with Node.js

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Video 1.3

Communication via HTTP



In this Video, we are going to take a look at...

- HTTP Request
 - o URL Path
 - o Method
 - o Headers
 - o Body

- HTTP Response
 - o Status Code



HTTP Request

An HTTP request is the message that a client sends to an HTTP server

Sample HTTP Request

```
POST /index.html HTTP/1.1  Method, URL Path, and Protocol Version
Host: www.packtpub.com
Content-Length: 35  Headers
```

user=saleh&password=chickensandwich } Body

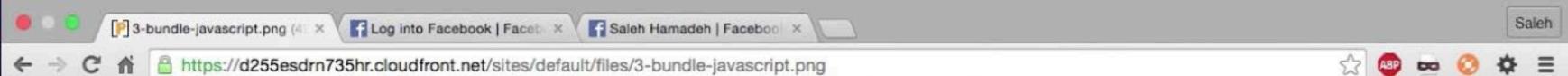


URL Path

A URL path is an identifier for a server resource

- · /images/background.png
 - o URL path to a static file
- /signup.php
 - o URL path to a server-side script
- /salehhamadeh
 - o URL path to a Facebook profile











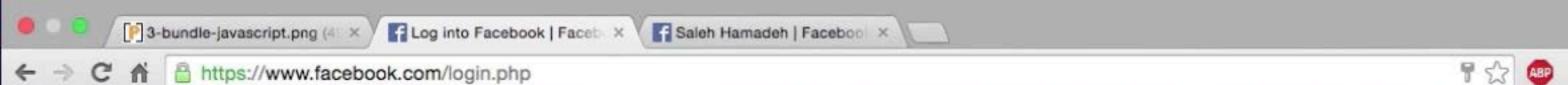




















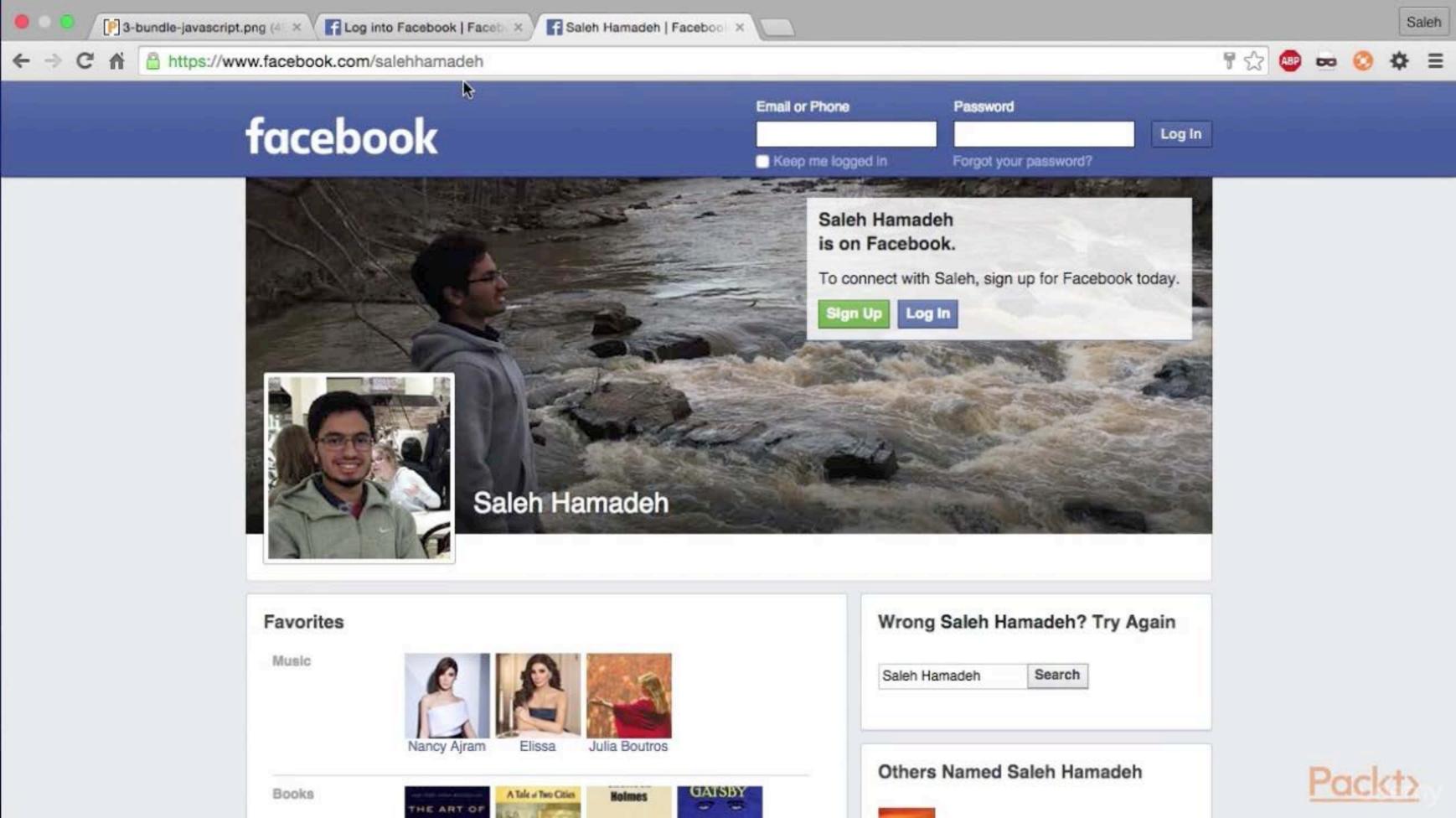


Saleh



Email or Phone:		
Password:		
	Keep me logged in	
	Log In or Sign up for Facebook	
	Forgot password?	

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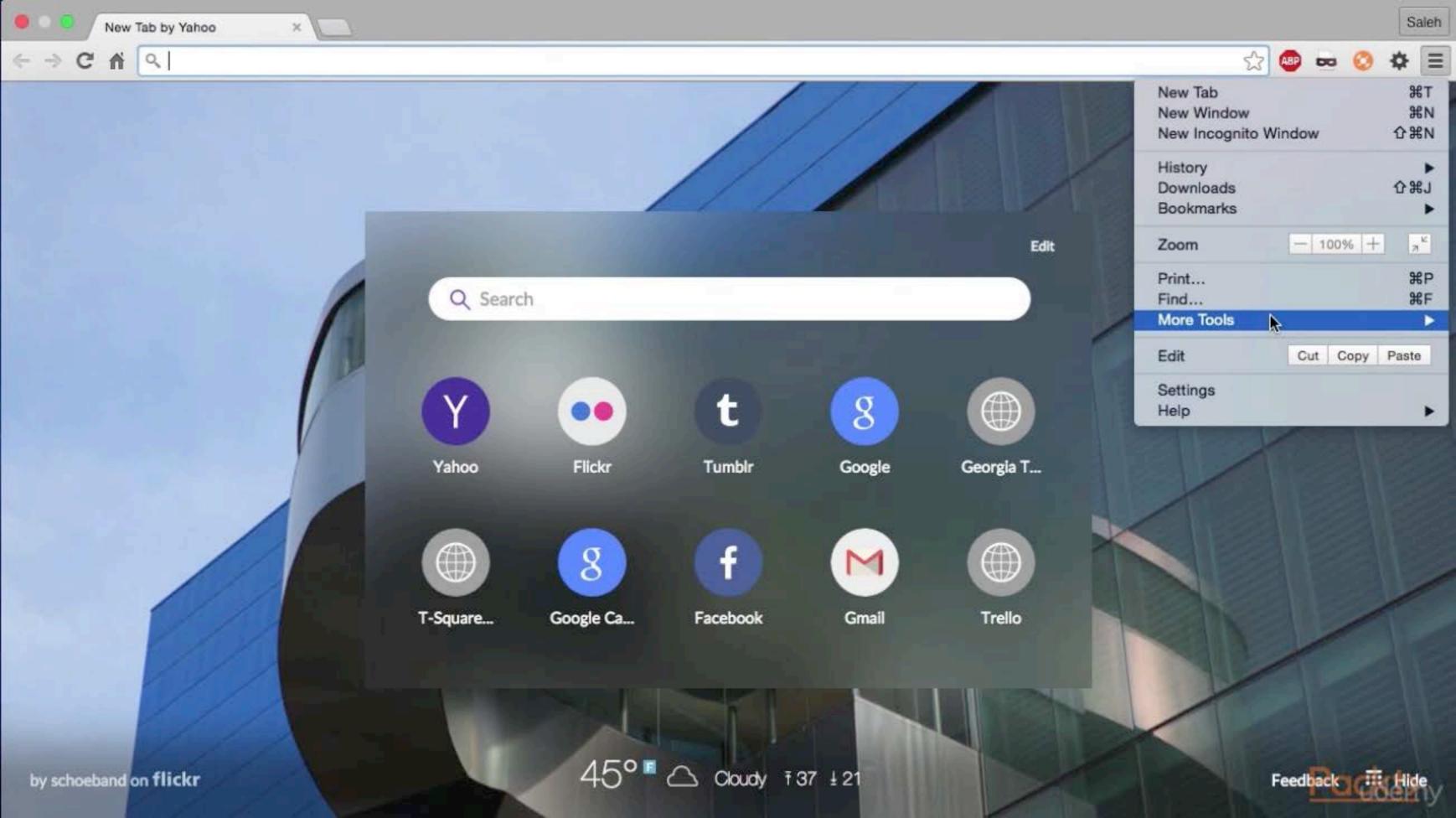


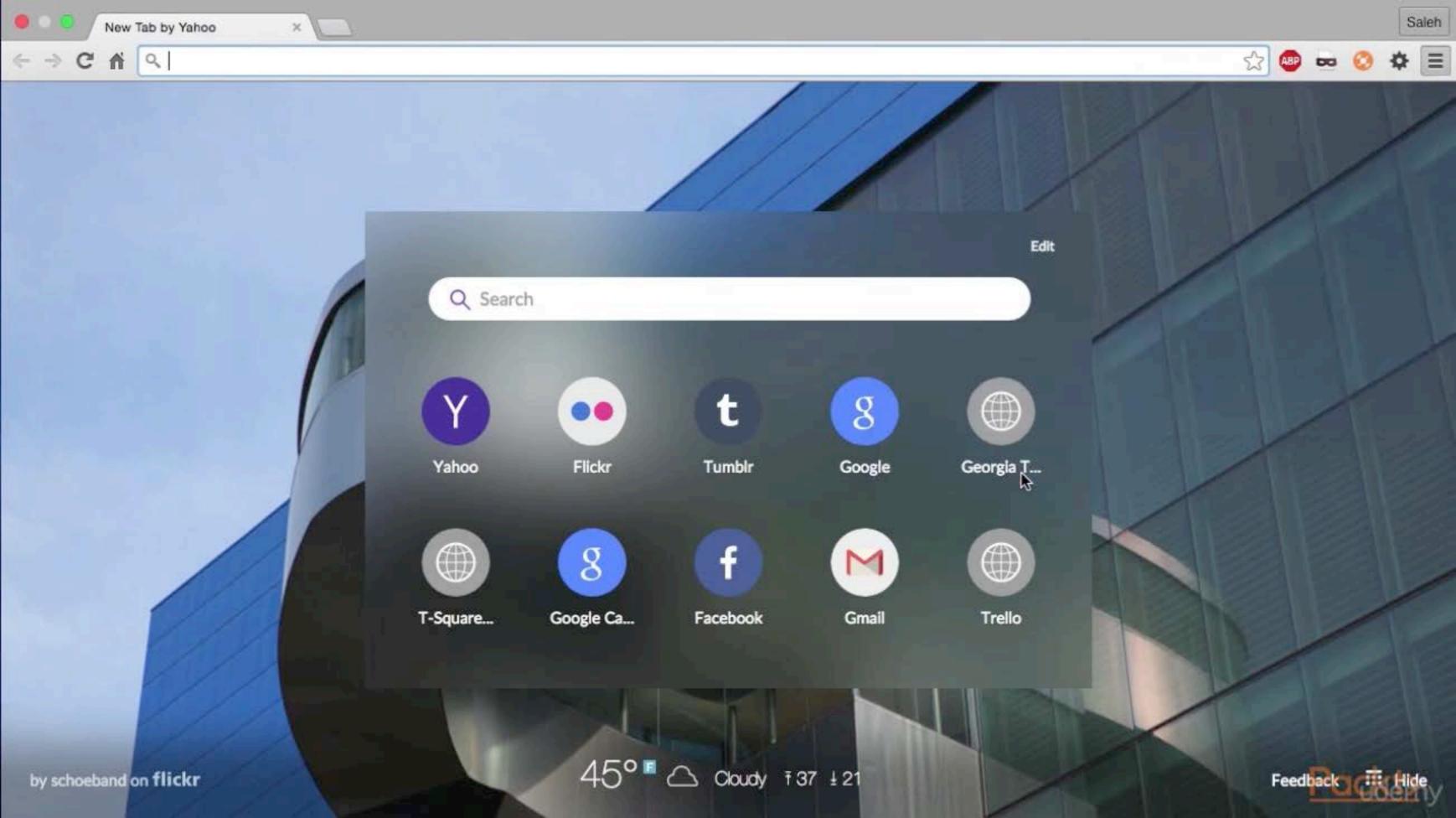
HTTP Methods

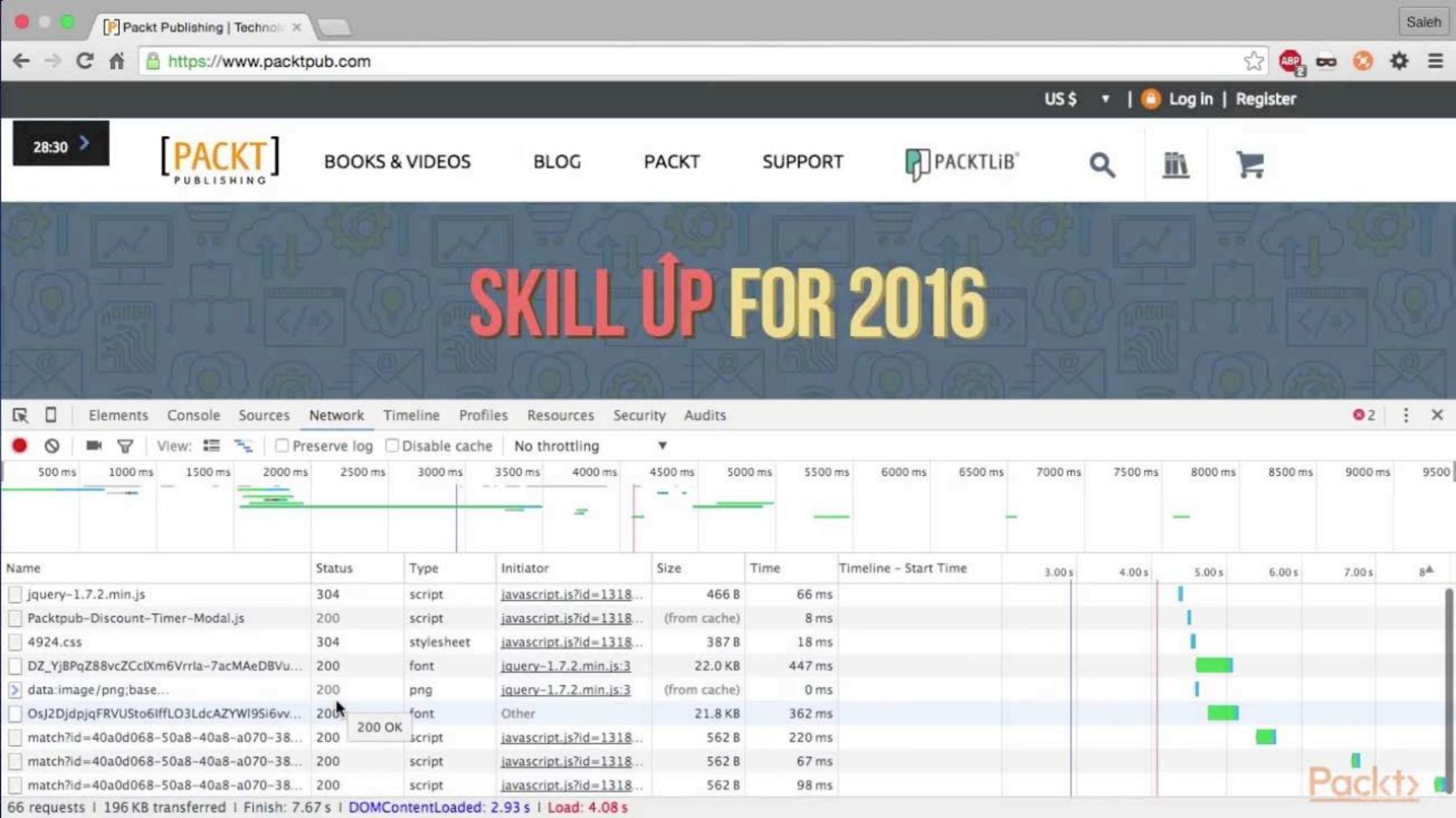
An HTTP method is a verb that is used on a resource

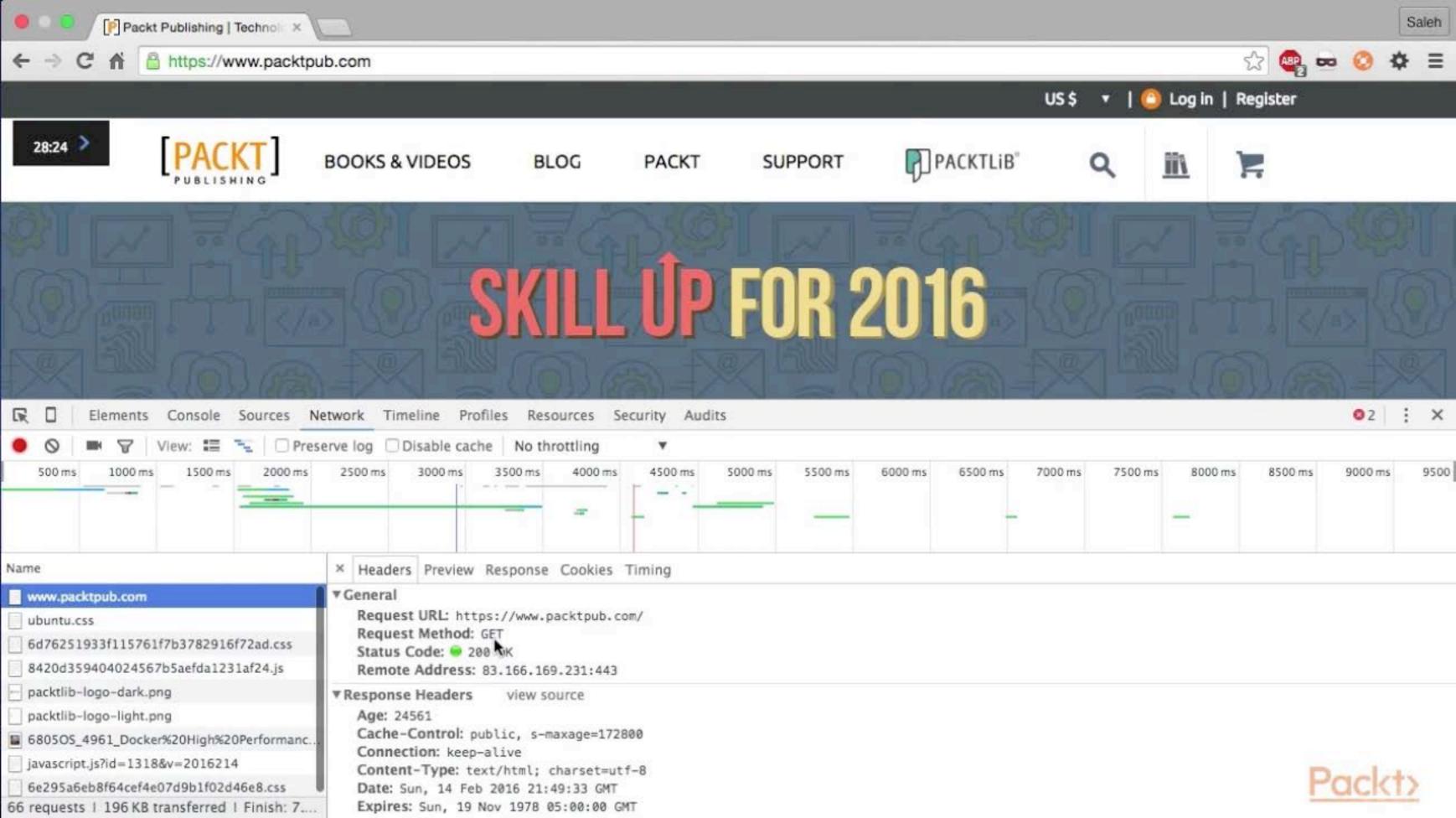
- GET
 - o Used for downloading (cacheable) data
- POST
 - Used for submitting form data
- PUT
 - o Used for updating files on a server
- DELETE
 - o Used for deleting files from a server







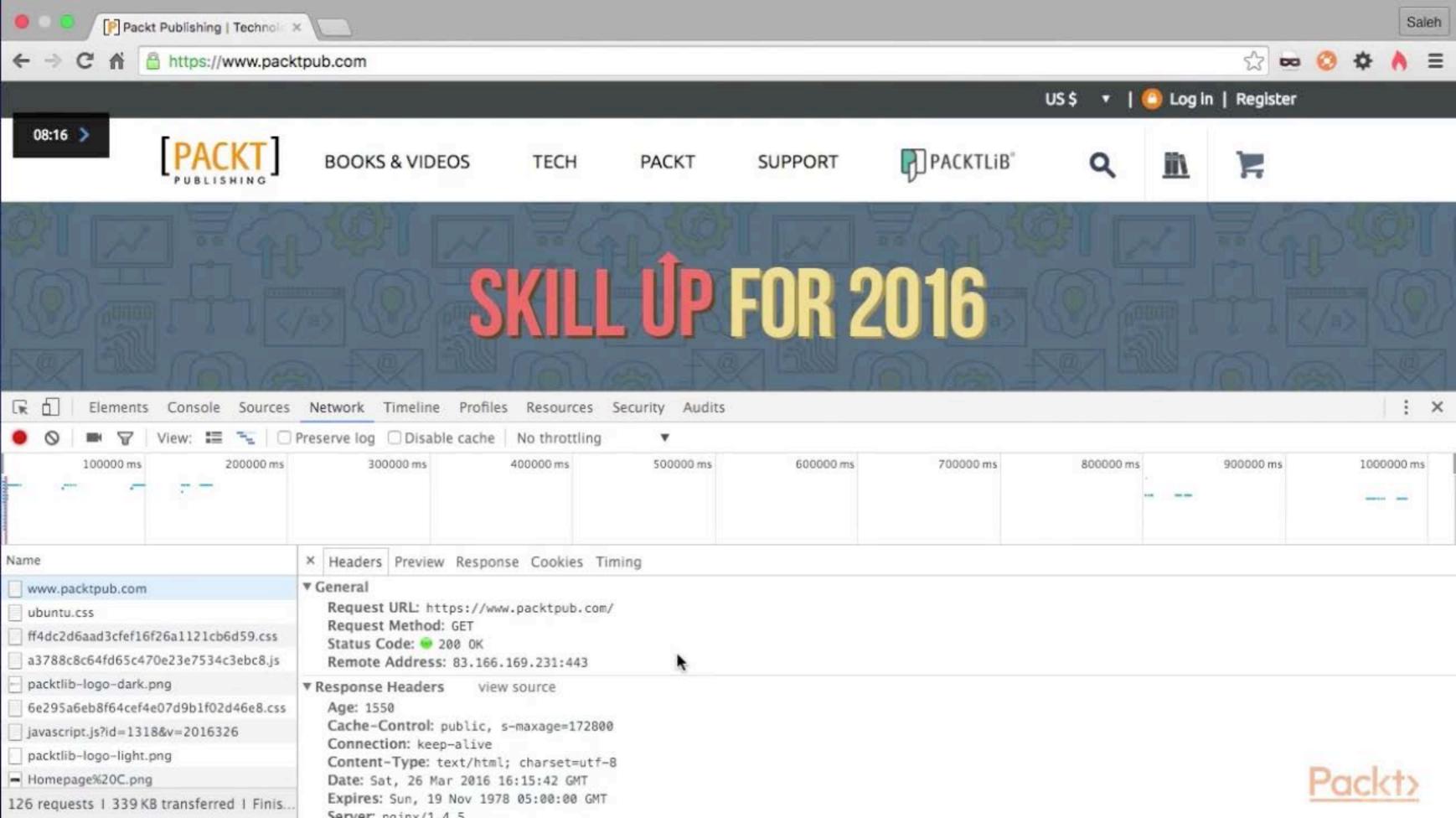


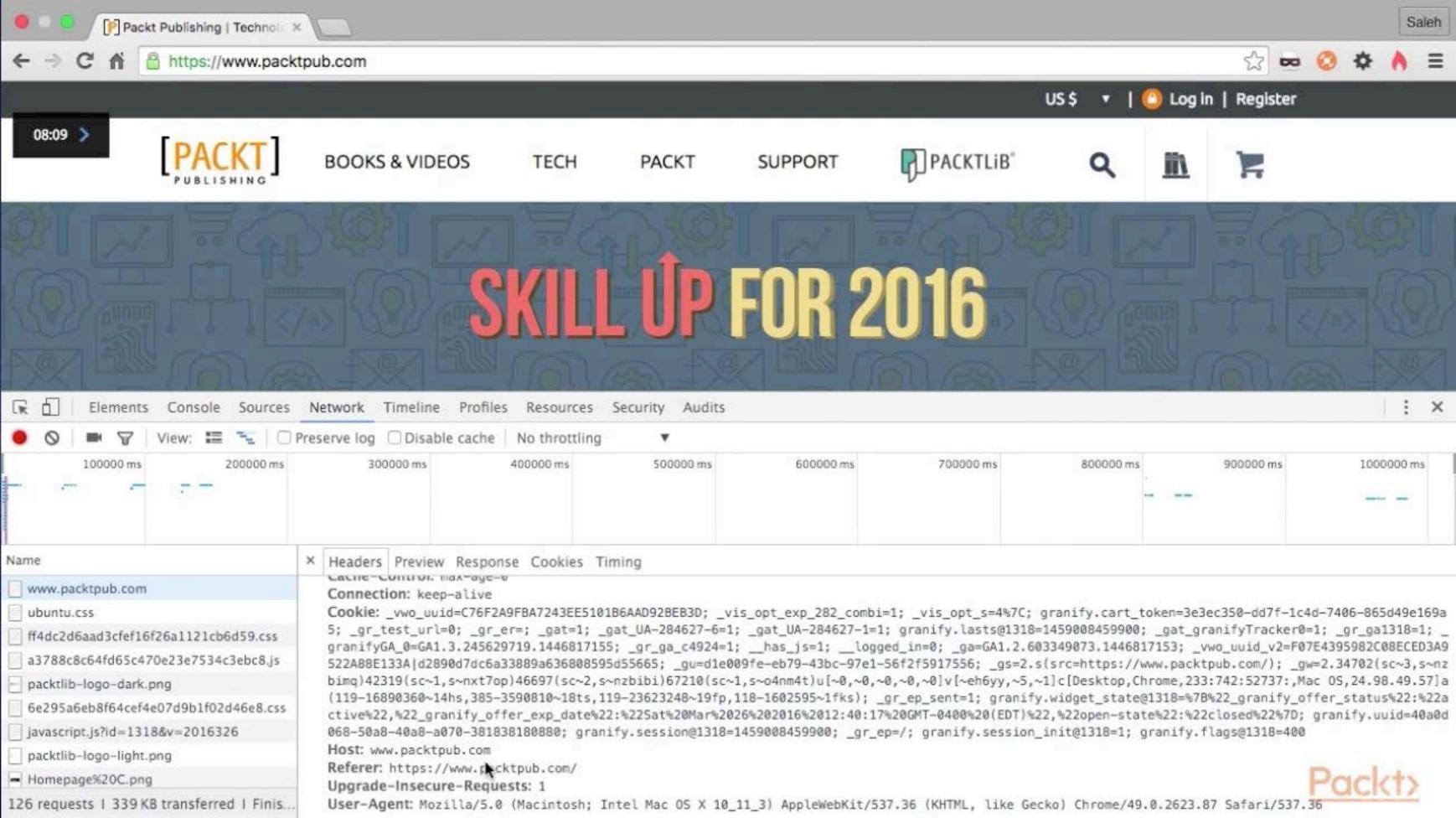


HTTP Headers

- HTTP headers are key-value pairs that are sent with requests and responses
 - · Host: www.google.com
 - o Tells the server the hostname that a user entered into the address bar
 - Content-Length: 12
 - o Tells the receiver the size of the message's body (in bytes)
 - Content-Type: application/json
 - Tells the receiver the format of the data





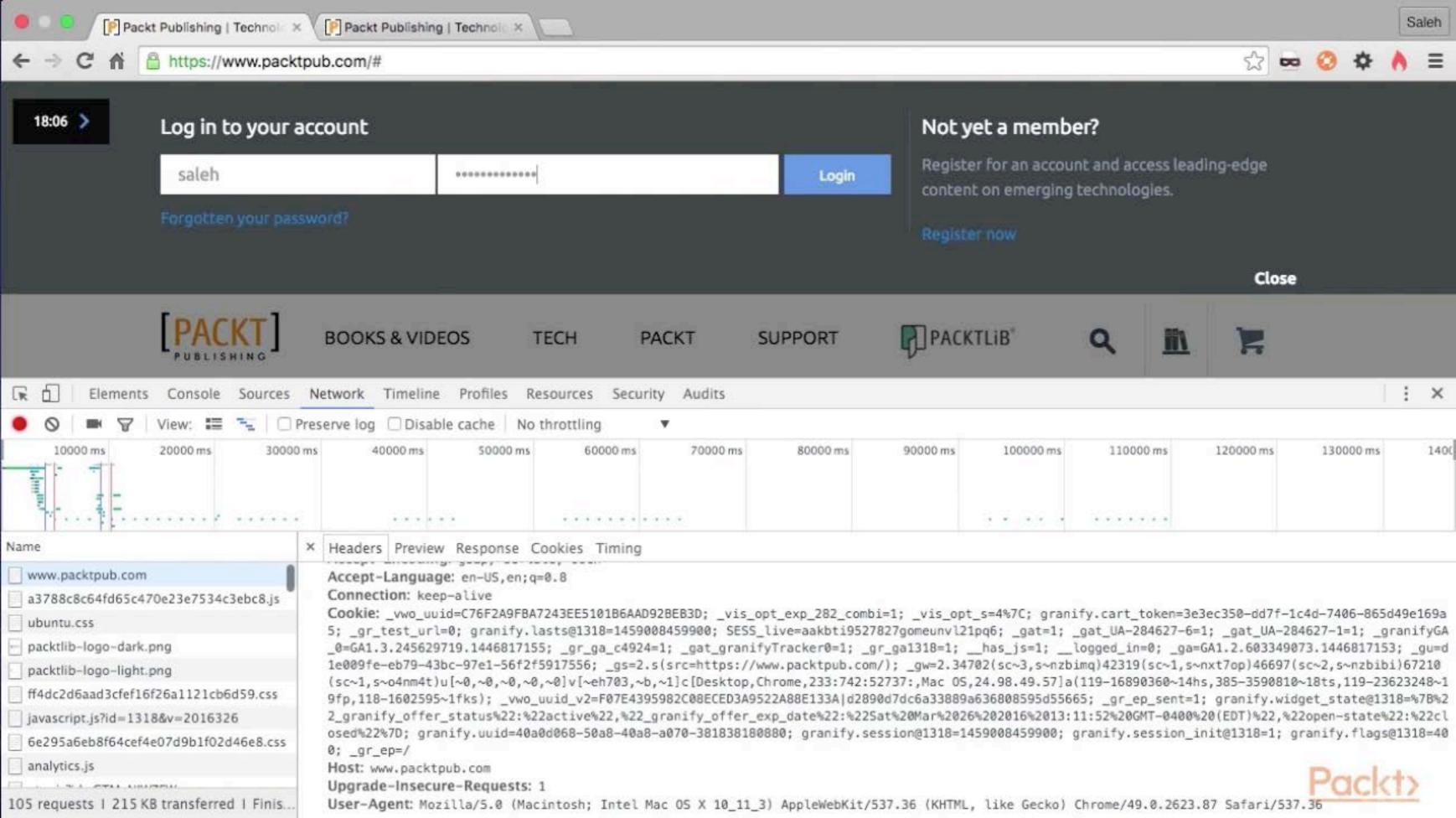


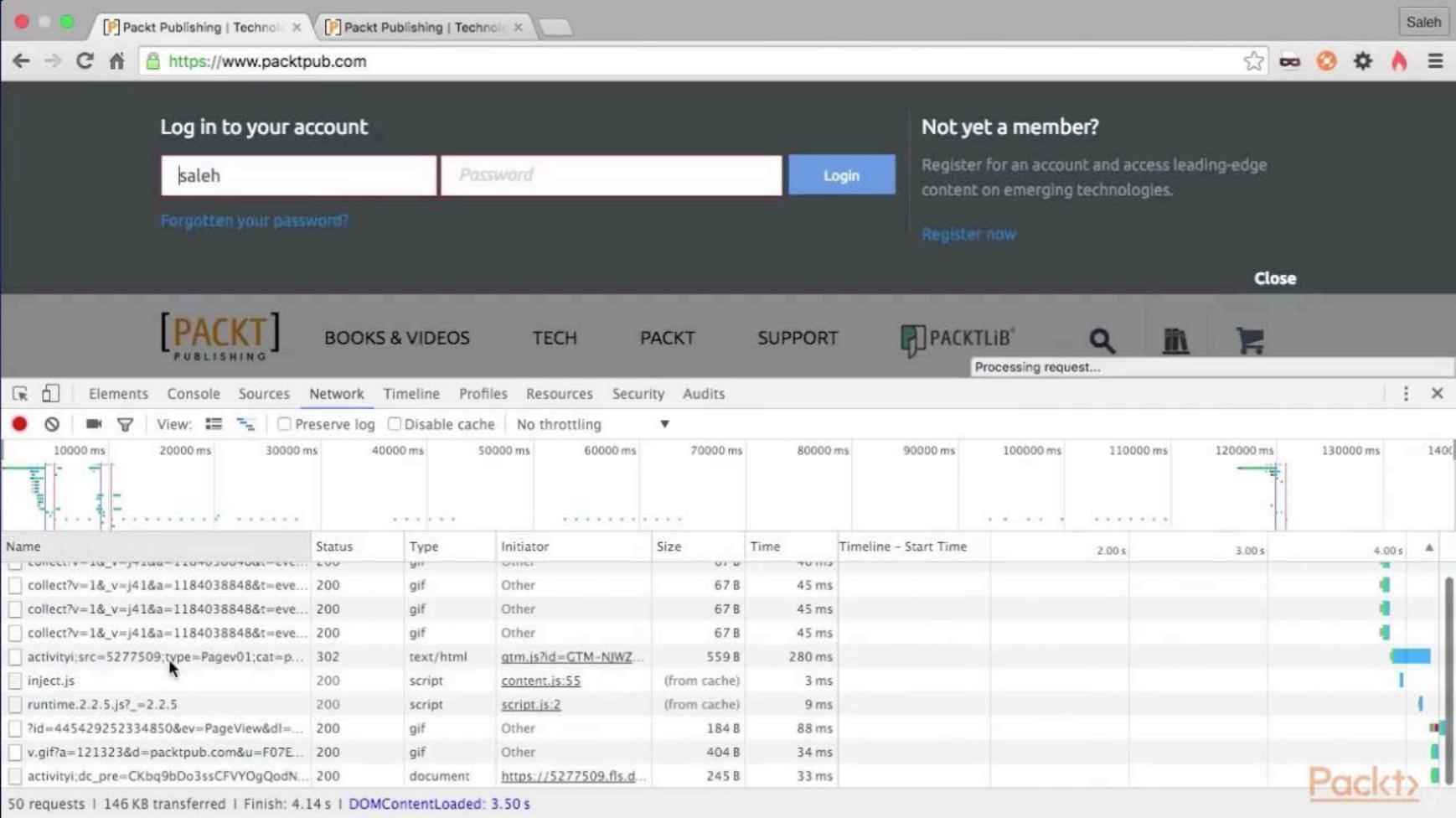
HTTP Body

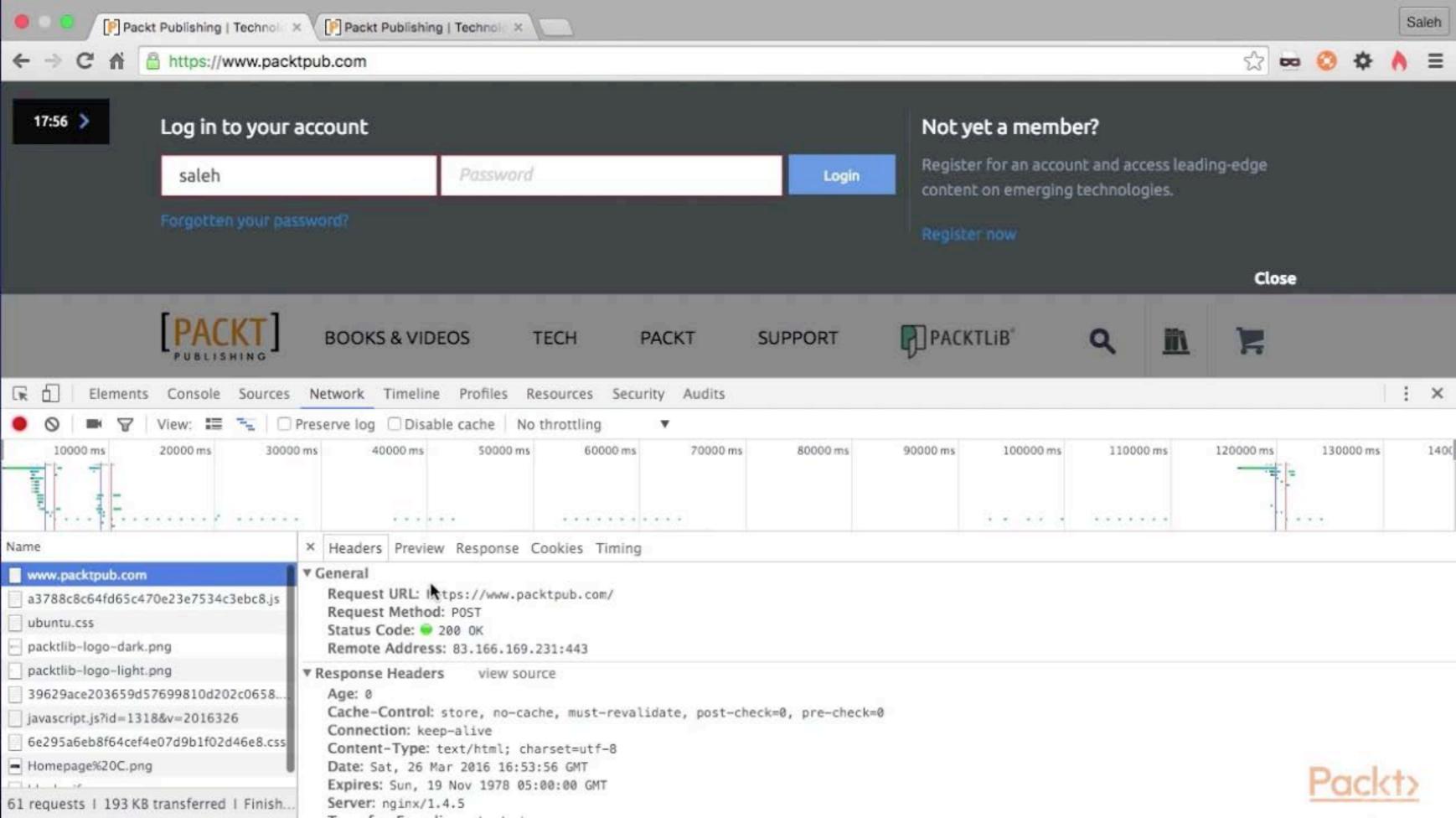
An HTTP body is the message's actual data

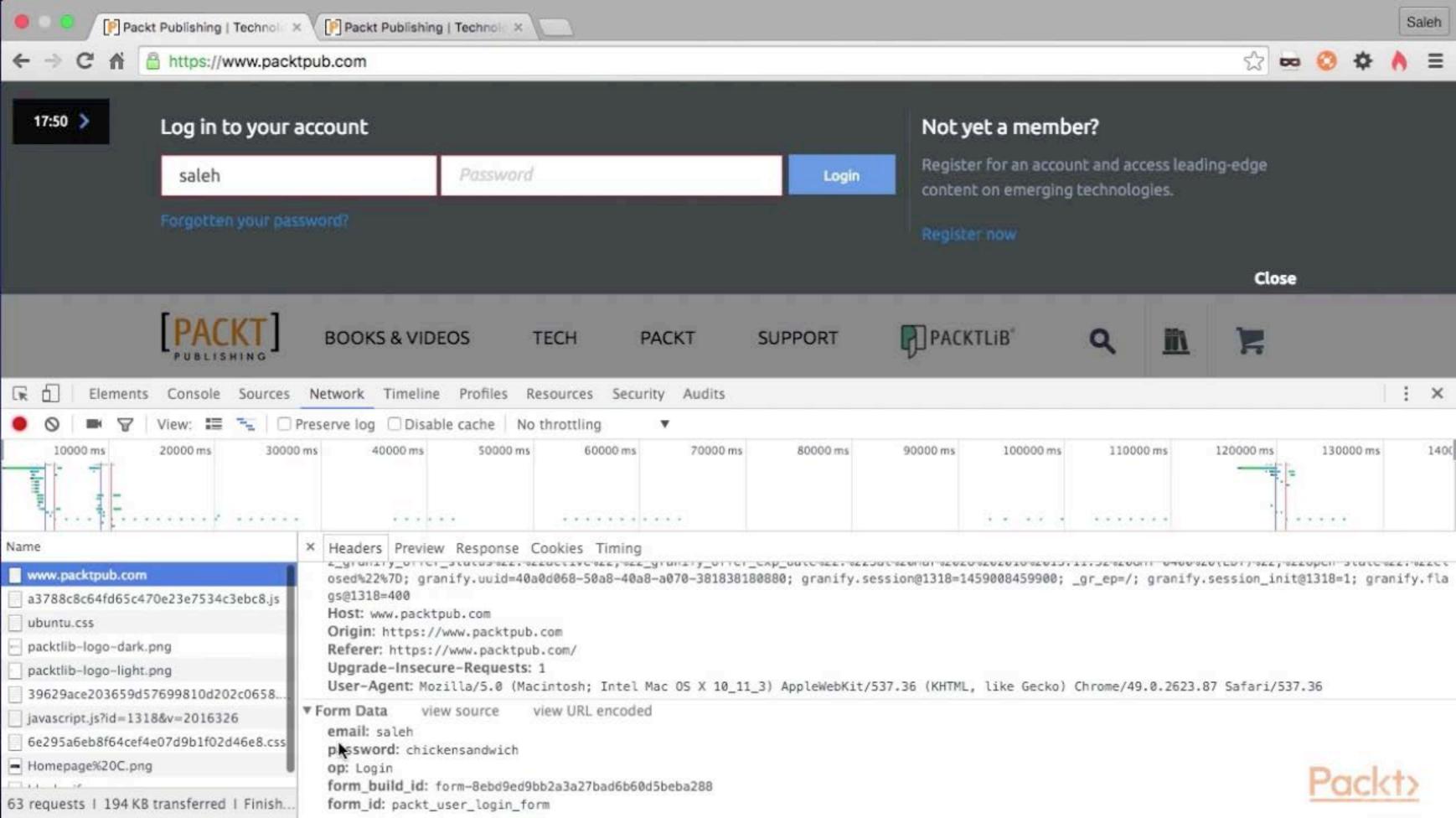
```
o user=saleh&password=chickensandwich } URL-encoded form data
```

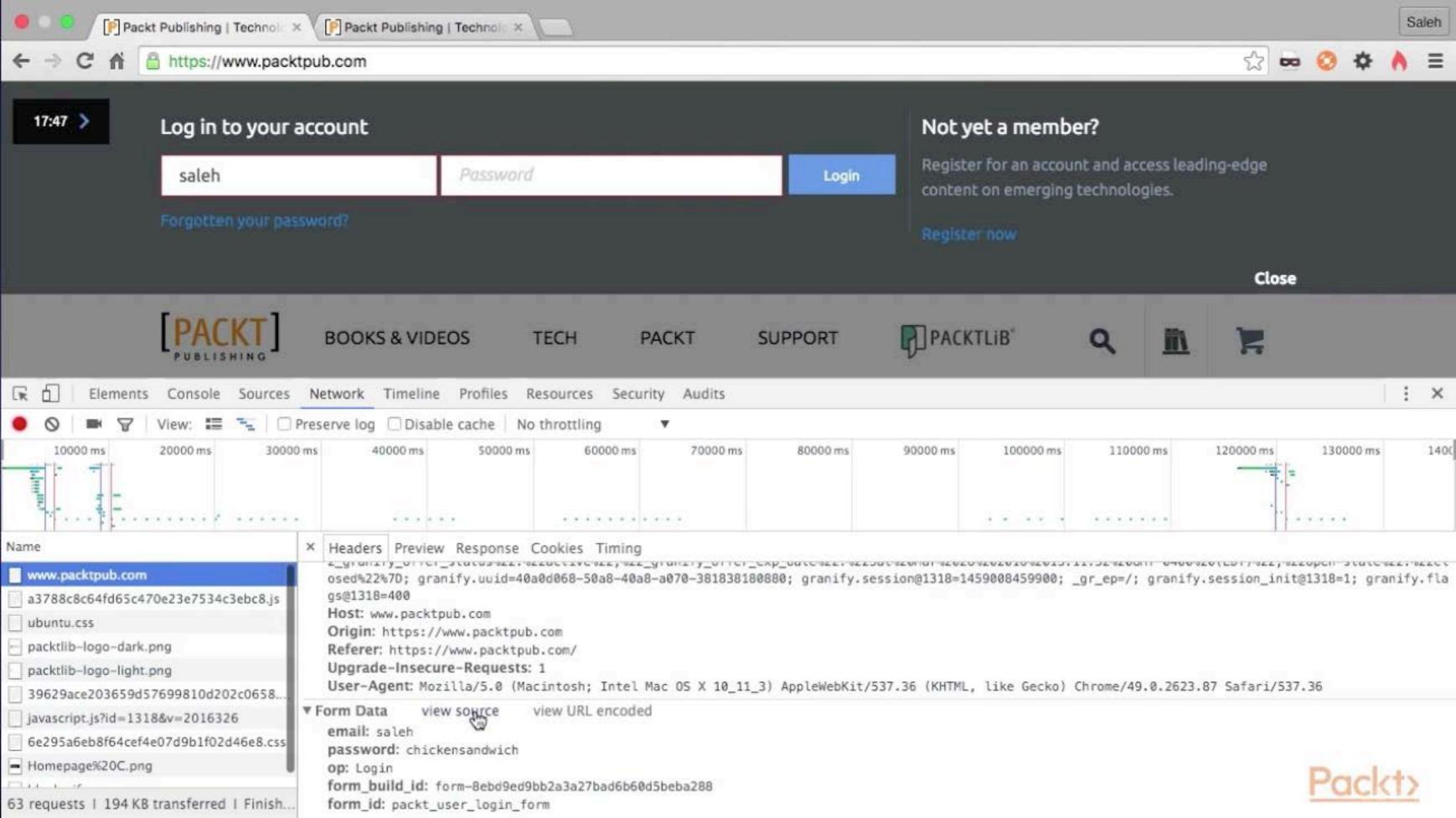


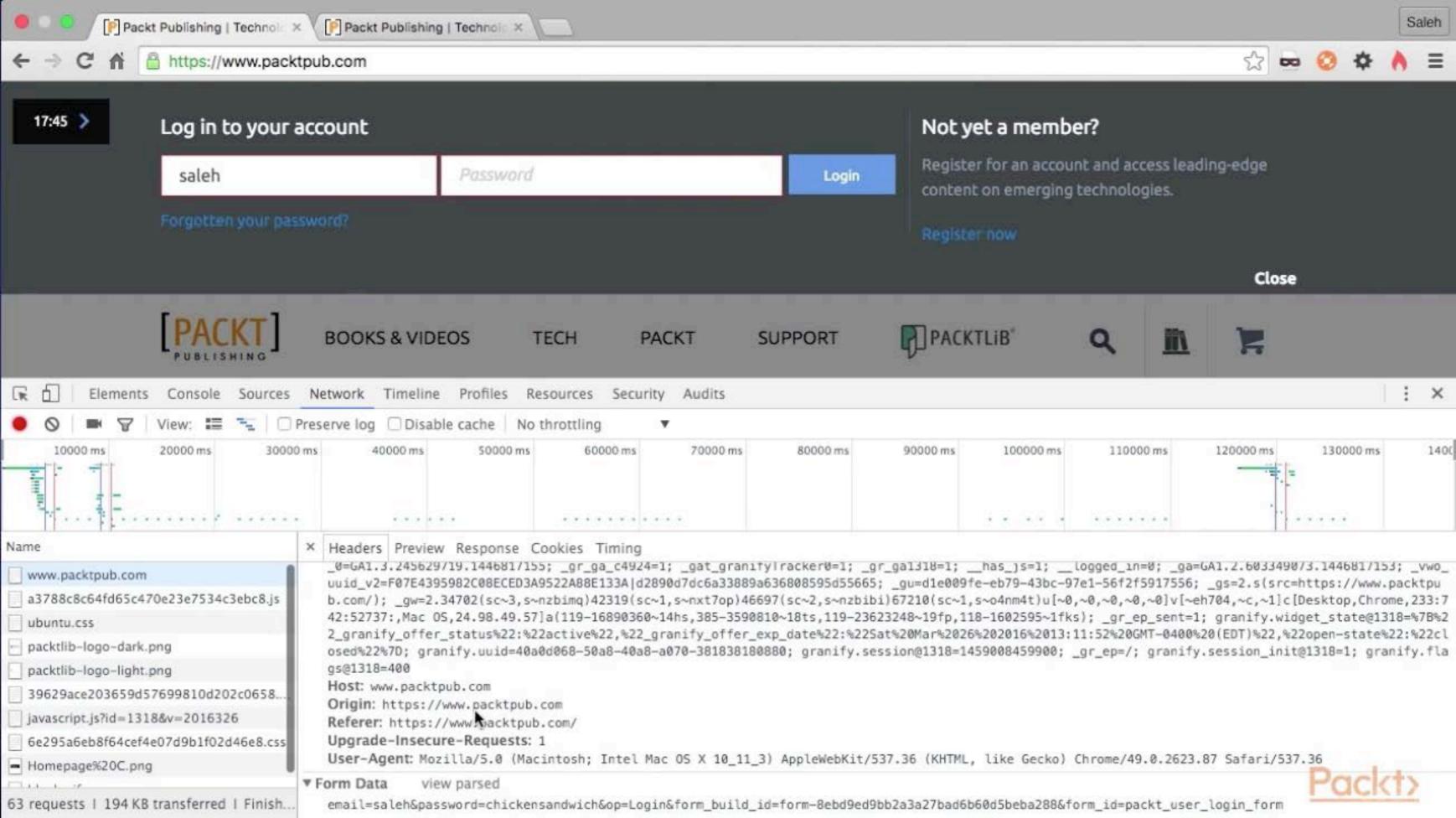












HTTP Response

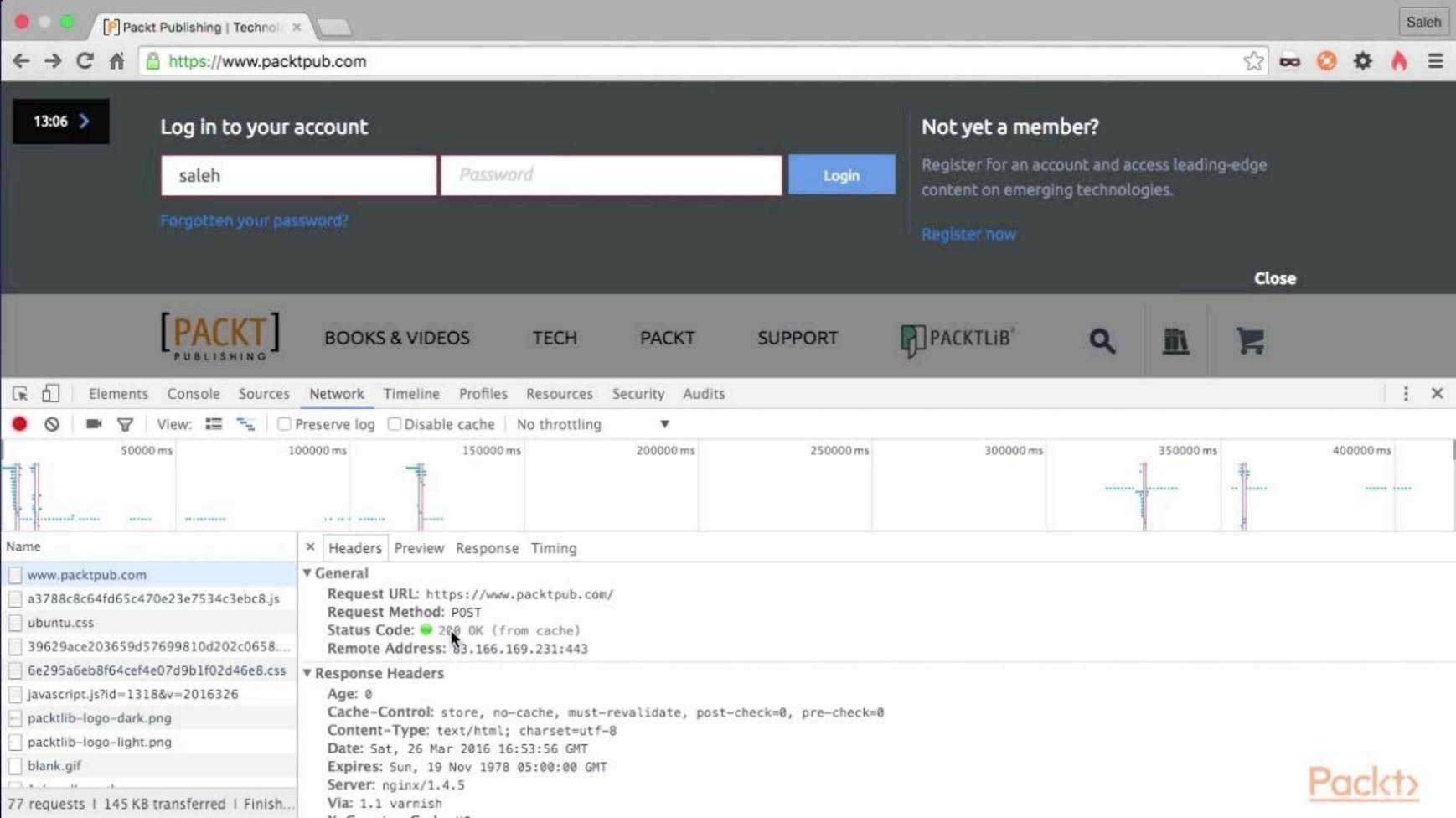
 An HTTP response is a message that an HTTP server sends to a client in response to a request

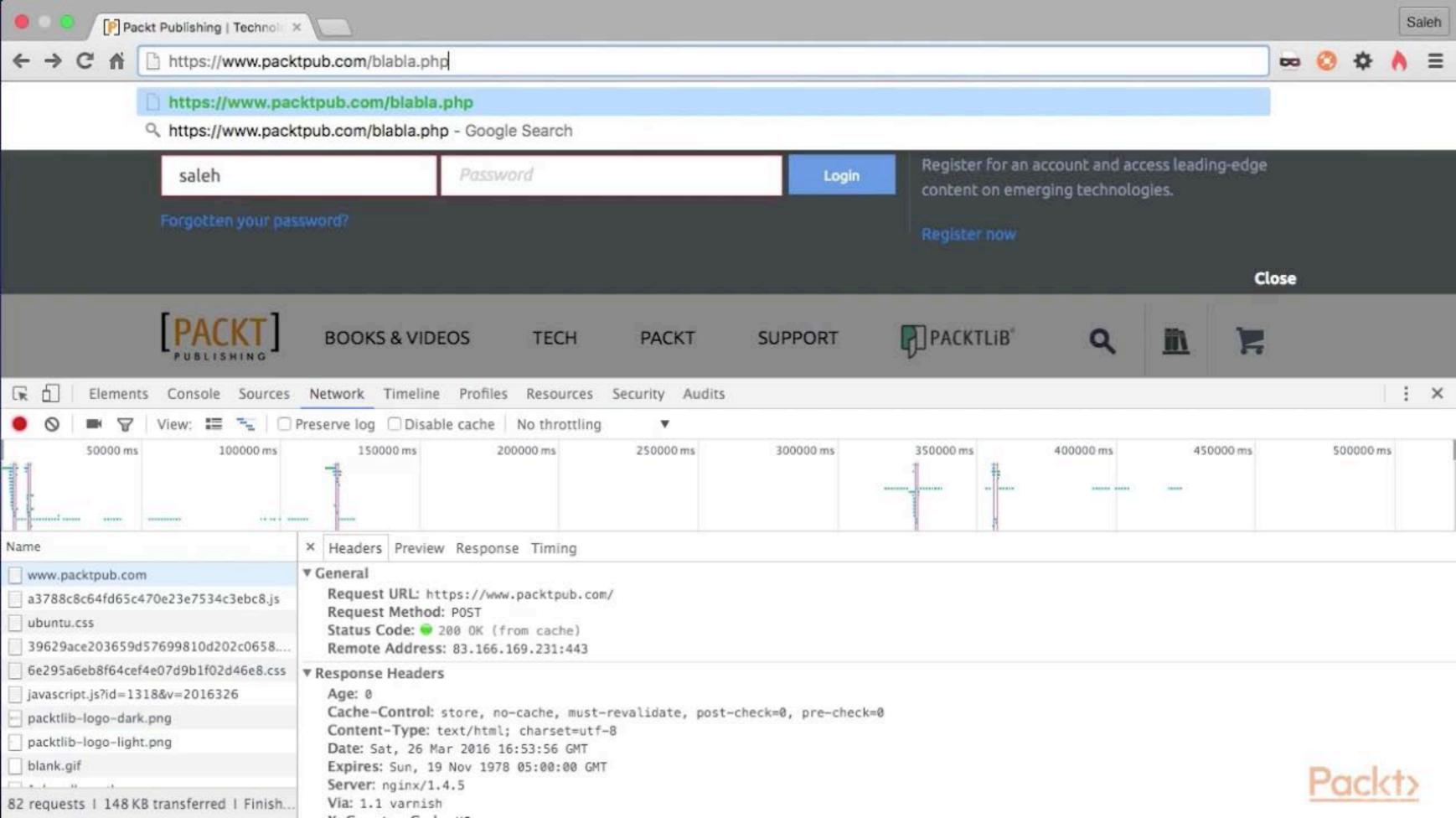


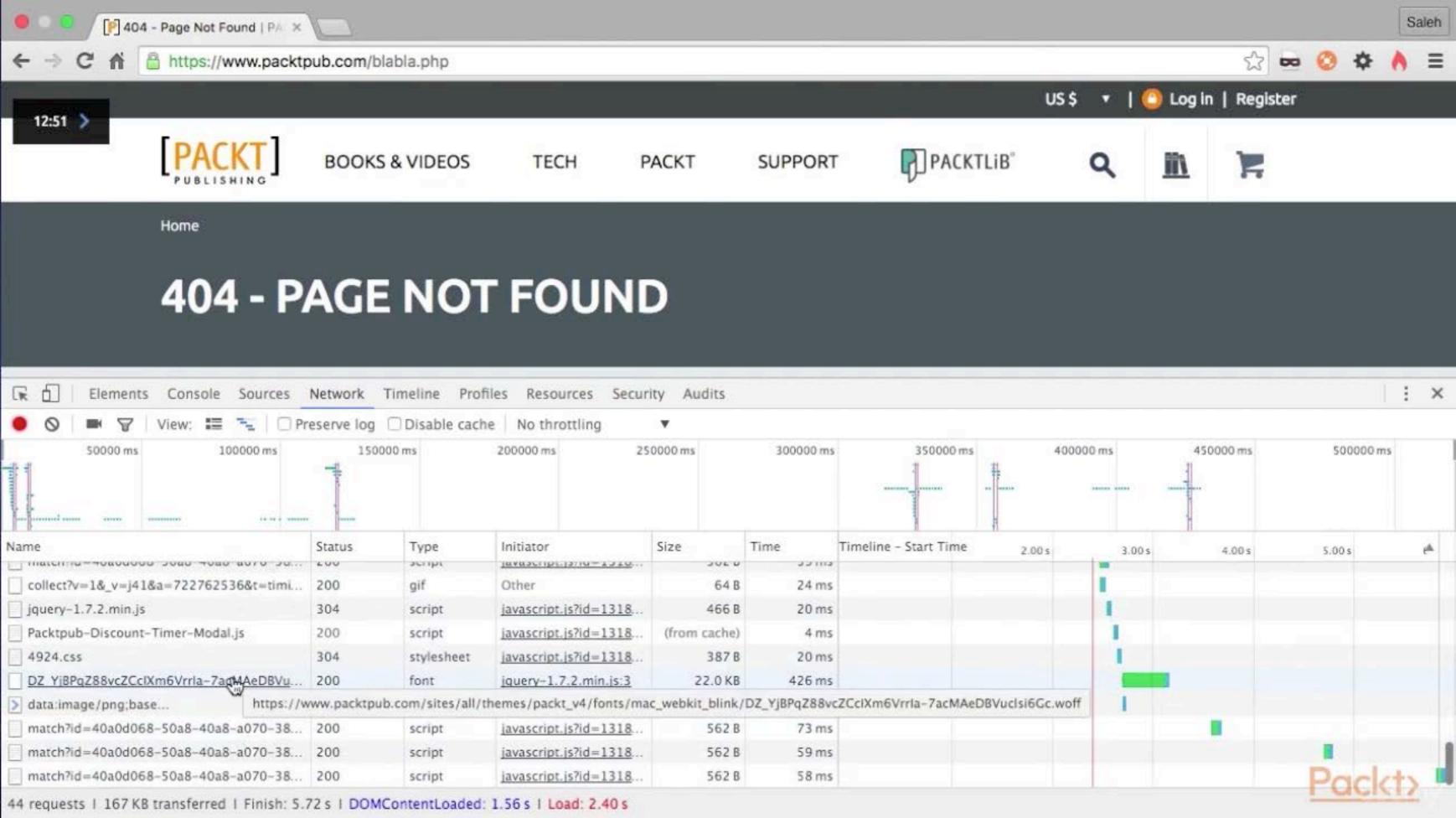
HTTP Status Code

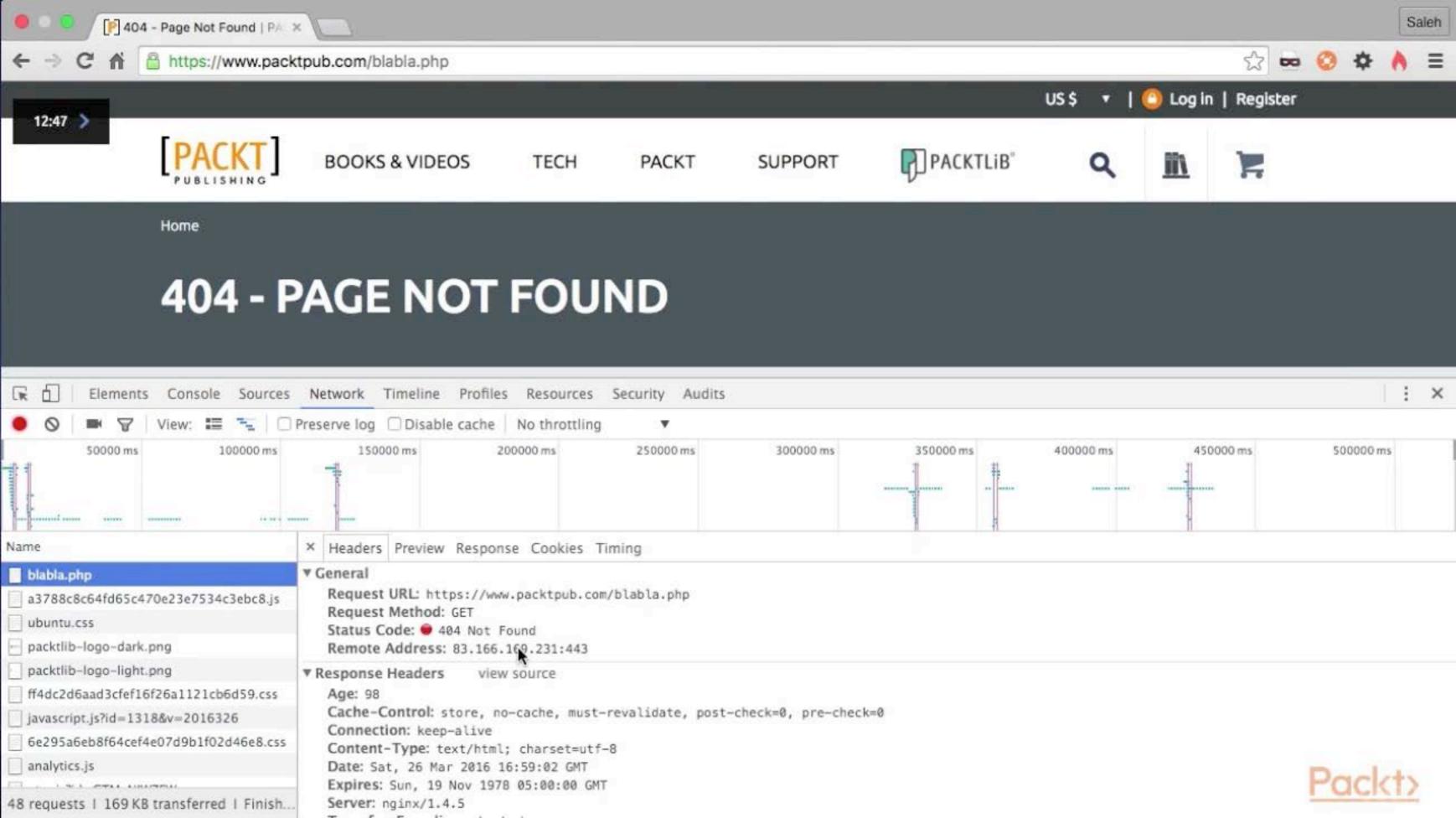
- An HTTP status code is a 3-digit number that shows the result of the request
 - 200
 - OK, used when a request was successful
 - 301
 - Moved Permanently, used when a resource was moved to a new location
 - 404
 - Not Found, used when a resource could not be found
 - 500
 - o Internal Server Error, sent when something wrong happens on the server











Next Video

Identifying REST Resources

