Chapter 10 - Network Requests & Storing Data
JavaScript can be used to send and retreme information from the network when needed (A)AX)
fetch API fetch is used to get data over the network
let promise = fetch (url, [options]) Lis without options, a get request is sent
Getting a response is a 2-stage process
An object of Response class containing "Status" & "ok" properties
status - The http status code, eg. 200 0k - bootean, true if the HITTP status code is 200-299
After that we need to call another method to success the body in different formats:
response text () -> Read & return the fext response json () -> parse the response as JGON
Other methods include response form Data (), response blob (), response array Buyer () etc.

	Note - We can use only one body reading method. example If we have already got the response with response text () then response joon () wont work
	example if we have already got the response
	with response text () then response ison () want
1	work warms whitest ison toward the secure of
1	
	Response headers are available in response headers
	The restonse headers are available in restonse headers
1	tomark its mant in the court starting the line
	Request headers To set a request header in fetch, we can use the headers option.
	To set a request header in fetch, we can use
	the headers oftion.
	the day alway side some de all side
	let res = fetch (url, 3
	hadans ?
	let tres = fetch (url, 2 headers: 2 Authentication: 'Sccret'
-	3
	3).
-	3);
	DAGT requests
-	To make a POST request, we need to use fetch options
	method -> HTTP-method, e.g. POST
-	Method - IIII - Method, cy rost
	body -> the request body
	11 Cl C'11.0' 5
	let response = swait fetch ('/wel, 3
-	method: 'POST',
	headers: &
	'Content Type': 'application/json'
No. of Lot,	
	body: 1 & "a": "harry" 3
	3);
	It result = await response. json ()
ľ	, v

JavaScrift Cookies

Cookies are small strings of data stored directly in
the browser

In JavaScript, document cookie provides access to cookies.

Cookies are set by a web server using the
Sct-Cookie HTTP-header. Next time when the
request is sent to the same domain, the browser
sends the rookie using the Cookie HTTP-header.

That way the server knows who sent the request

We ran also access rookies using document cookie
property:

alert (document cookie)

Gontain key = value pairs

delimited by a;

An assignment to document cookie is treated specially in a way that a write operation doesn't touch other cookies

document : cookie = "user = Harry"

4) updates only cookie named
user to Harry

Quick Quiz: Print all the cookies on twitter com

Encode URI Component
This function helps keep the Valid formatting. It is used like this: document. cookie = encode URI Component (name) + '=' +
encode URI (omponent (value) This way, the special characters are encoded Cookies have several options which can be provided after key = value to a set call like this: document · Cookie = "user = John; path = la; expires = Tue, 29 March 2041 03:18:22 GMT" path option makes the cookie visible at 1a, 1a/b ek. capires sets the cookie expiration time 1> The name = value pair, after encode URI Component, Should not 2. Total no of Cookies per domain is limited to around 20 + (Exact number is prowser dependent) local Storage is a web storage object which are not sent to server with each request. This data survives a full page refresh and even a full browser restart.

	These are the methods provided by local Storage
31 1	The huntres tells had the valid foralling. I
17	Sot Item (key, value) -> Store key/value pair
21	get I km (key) - get the value by key
37	remove Item (key) - remove the key with its value.
	clear () → delete everything
	key (index) - get the key on a given position.
67	length - the number of stored items
Taa.	We can get and set values like an object
do d'	local storage one = 1
	alert (localStorage one)
ton	delete local Storage one
banco	Important Nate
1-	Important Note Both key and values must be strings We can use the two Json methods to store objects in local Storage:
27	Both key and values must be strings We can use the two Ison methods to store
,	objects in local Storage:
tort	ma dide timbo mando desta a la
	JSON. Stringify (object) -> Converte objects to Ton chis
Ou	JSON. Stringify (object) -> Converts objects to Json strings JSON. parse (string) -> Converts string to objects (must be a valid JSON)
2	(must be a valid) say)
	(The same of the

	Session 5 torage Used less of ten than local 5 torage. Properties and methods are same as local 5 torage but:
	Used less often than local Storage Properties and methods
	are same as local storage had
	was pure
1,	The session Storage exists all within the content
1	The session 5 torage exists only within the current browser tab Another tab with Same page will have a different storage
	a different sloward
	Storige parameters of state
1	The data survives page refresh, but not closing lopening the tab
	The sun house long
	Shown Court
	Storage Event When the data gets updated in local Storage or Session Storage, storage event triggers with these properties:
	when the data gets updated in local Storage or Session Storage,
	storage event friggers with these properties:
7	key -> The key
27	key → The key old Value → Previous Value new Value → New Value
37	new Value -> New Value
47	Vrl → Page URL Storage Area → local or sessions torage
5,	Storage Area - local or sessions torage
	We can listen the onstorage event of window which is triggered when updates are made to the same storage from other documents
	is triggered when updates are made to the
	Storage from other documents
	The second of th