## AJAX (Asynchronous JavaScript and XML)

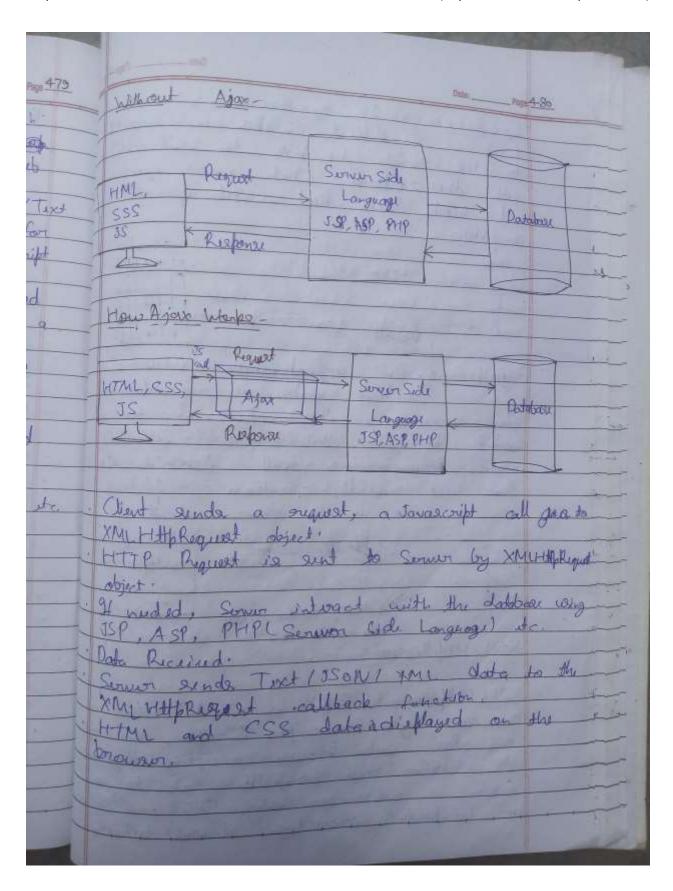
GEEKYSHOWS YOUTUBE CHANNEL LEARNING NOTES

Source Code - https://github.com/satyam-seth-learnings/ajax learning

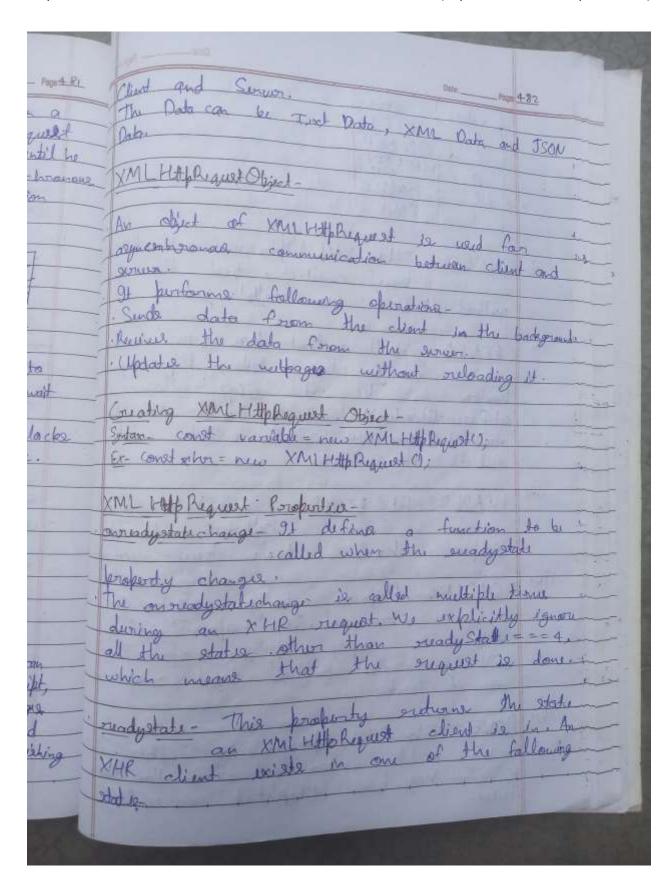
YouTube Link - <a href="https://youtube.com/playlist?list=PLbGui">https://youtube.com/playlist?list=PLbGui</a> ZYuhihUYNCkpedtfgpYXv9tHVsp

SATYAM SETH 14-7-2022

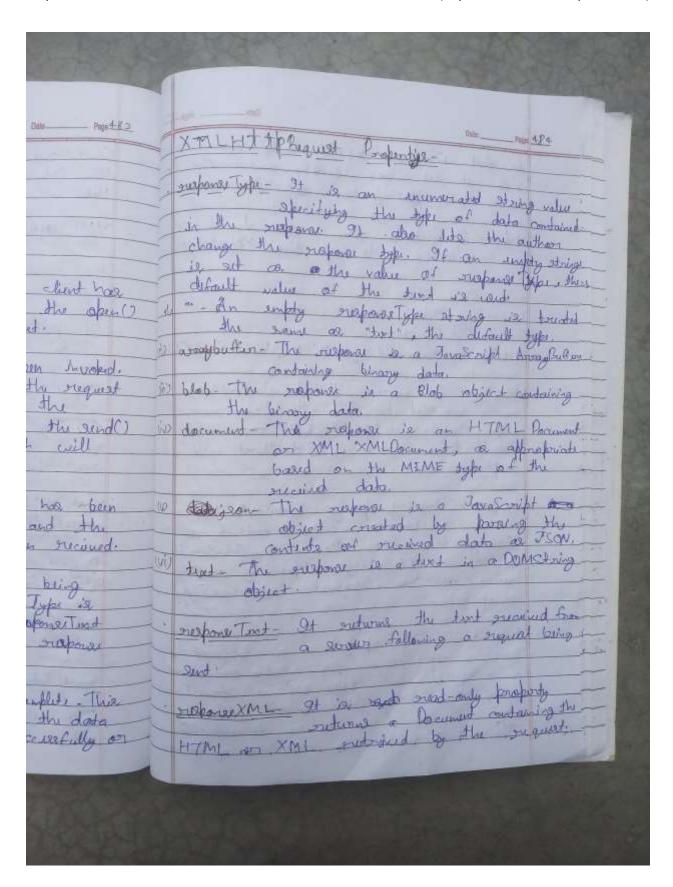
AJAX (Asynchronous, JavaSnipt and XML) Duta 13-8-22 Page 475	
Ding 12 See Page 112	لملا
· Ajax is a ust development bechnique which	1
helps to create highly neclosistic, non day	V
doptate software like were experience web	
application	MHI
HTML, CSC for subrusentation, BON / XML/Tixt	VI S
for storing Dato, XMLITTIPROQUES Object for	0
action in the background and Javascript	1
but all tha tragether.	
Ajax is used in ust page to be updated	F
- Dynchronously by inchanging data with a	-
with some behind the scone. This	
make possible to update poods of a	H
web page, without reloading the whole	
· Cling afore in our create better and	
father werbs applications.	
· Agat is Programming Language.	
En On Type Switch, Monie Rating Feature etc.	1
No. of the last of	
Why we Ajax-	
the state of the s	
No Page Reload on each orquest.	
And are a last west till	
Send Data to server in background.	
TELON VICTOR TELONO VICTOR I	
EBUILD'S SOON'S INCIDENT NICES	
· Impactors Skeed and Performance	
	1
Do you Know -	
HIML	
. (25)	
Java Eript	
XML	



	4
Date Page 4 Ry	24
Synchronous - In synchronous, when a	Clies
Client maker a request	Dak
to the survey he has to wait centil he	
gets, the 3700 bords which means eguicknowing	XV
call blocks the dient until approation	
	An
Should Exam Stand	वर्थ
wall	. 91
La Charatt wall	. 5
Agnichronois. In agnichosonois, when a client makes a nequest to	- the
client makes a nequest to	1
the server he does not need to wait	-
until he gets the supposes which	Sy
In client until operation completelia.	0
· Me so fine to do other activities.	
9 Updanting Wides > Translates	$-\frac{1}{\times \nu}$
	- 000
Eduling wider little A	Ja.
XM1 titlp Request-	1.1
AMC Tempragues-	9
XMI Httplequest (XHR) is an API that can	9
by used by chasewith Is III was II	The state of the s
and other we browser expling language	1 27
from a curbonier volta HTTP whathis	
and other web browser expling languages to transfer and manipulate date to and from a subserver wing HTTP, establishing an inderpendent connection channel between	X
	24
A STATE OF THE PARTY OF THE PAR	



THE REAL PROPERTY.	ARREST DATE OF THE PARTY OF THE	
	2.482	
	Date Page 4.8.2	
	Value State	1
	O UNSET	, 93
	2 MEADERS REC	
989	3 LOADING	
	4 DONE	
ris.	UNSET- The XMLHHHRequest short has	
TAK.	UNSET- The XMLHttlkiquest client has been southed, but the open()	ele
	method haan't been called yet.	-
dis		197 0
110	OPENED-open U method how been throoked.	1602
103	Puring this state, the request	1002
	headore can be set using the send()	(iv)
	nutrod can be called which will	
	initiate the fetch.	
(11)	Tietorne orean	
	HEADERS_RECEIVED - send () has been	tw
	nesponse headens have topen received.	
tivo .		TWO
(IV)	LOADING- Response a body is being succeived . If noponer Type is will have the partial trul and	
	riceived . If noperattype is	
	ted at unpty string, referrest and	1
	will have the partial text supposes	1
	03. 15 10.00x.	
(4)	DONE - The fitch operation is complete. This	1
	could mean that either the date	1
d	ransfer has been completed successfully or	
d	ailed.	
	THE RESERVE THE PERSON NAMED IN	



			ERA -
	Date Page 4-9.5	1	XM
			Jus
dn.	will if the suggest with unsuccessfull,	/	2000
ho	and get been sent, on if the date		024
		/	
whe .	rue - 91 neturns the numerical HTTP	/	200
	status code at the XMI Hittp fliqued's		
	enelones.		LR
	001,0K.		UF
	01: "Fashidden"		te
4	of "Not Found". attpo vidende for more lang in US/doca Met /1-1TTP/Status	_	Da
~ 1	dipo viculaspor real halogram	_	-
. saladi	DeTrost - It returns the statue - text 1 19 "OK"	1	mple
	on "Not Found"). If the neguests	-	1
ערכ	adjustate is in UNSET on OPENED	-	up
Sko	to the value of status test will be an	1	bu
ماق	pty string y		70
: 971	aponer- This property returns - the		a)
	supposed a body content as an		Eve
A	may Buffin, Blob, Dox used. Toras night	1	Lood
0	bject on DOM String, depending on the	1	prope
VE	after severages a temper of the sule	1	abs
-	naporty.		ווע
· 330	woul - This property is an uneighed long	1	Loc
Marian San San San San San San San San San S	The state of the same	1	dia
a	TUBILLY COM Take before A 11-11		4
1 021	no throwhatson (the default issue to	1	-
l wh	ich mande there is no through the	1	-
	imegent shouldn't be used for eyndonomous.	1	Loan
			1

Page #95	11:01	
	XM2HttpRigues	to a decumpate the month this to
102 fulle	municulmunt	the a fine and hopping a fine and the control and the control of t
date	societion. W	My a timent on harden
H7ML.	July 12 fiz	ud. hopping a blow out took
70	1 101 0	
Riqued's	noponsitivity	the seture the sevalized URL of the
1000	276	sperse on the empty storing if the
	URI A NU	U. If the URL is returned any
	NO Series	hat he had a Que
01:1	be the Ci	ay. The value of responsible will
Status .	A IN that	UPL objained of the any redivide
"OK"	1-1-d- 91	
12/2	H I	from an XMIHITERequet Upload object
ED	196,7505.4	CON W CHROLIST to 10 11 11 1
u an	by by	ause It's also an XALARS
- 45	XM1 HH hhranet	Event Target, want listeners can be
	attropola to	Arrack to programme can be
	AMUCKUS JO	THER THE PROPERTY.
94	Event Event Listen	Diskonitation
4	landatast anloadator	-11 4 1 1 1 1
U	pregnes onprogre	
	about anabout	Uplood abouted
	תמונים מחות המותו	Upload ful du to an 120001
	Lad onland	Uhland completed Successfully
ong	diseased andiseased	Whood times out because a suply in
conde	- SALTABATA	did not arrive within the three
lly -	Store Control of	Interval specified by the
0-		see till 1 0 ob on the last
	Loodend anlandered	1 -8 1 Shid Will Shirt
W	OFFICE STATE	does not differentiate tetresen
		THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLU

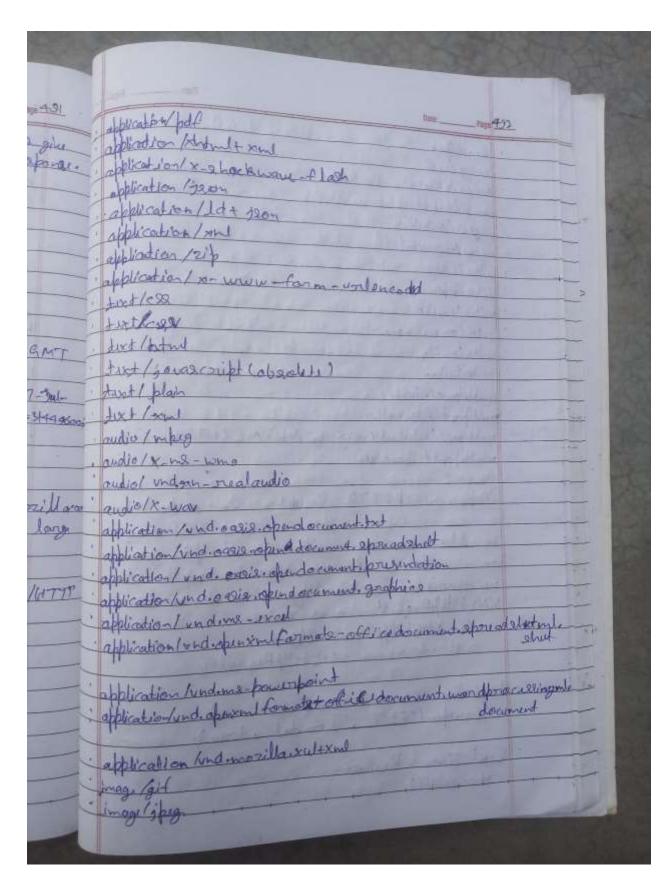
REPORT OF THE PARTY OF THE PART	
Date Fage \$87	XML
success on finding, and is success on finding, and is success on finding and is upload sugandless of the outcome, success on finding of the outcome, success on finding of the outcome, success on finding, and is upload sugandless of the outcome, success on finding, and is	count where
will already have bun delivered to indicate why the upland inded.	· meth
St is a Boolean that Indicates whether on not cross sets Access - control requests should be made using credentials such as coopies, supposization header on TLS client out certificates. Setting with Credentials	1.0019
· I addition, this flog is also used to indicate when cookies are to be ignored in the supposes. The default is false	Ex-
connot get cookie value for their own domain unless with Credintials is set to their descriptions the second their descriptions the string the sequest. The	- 9,00 Ex-
third pandy working obtained by enting with Credentials to tome will still honor same origin policy and brance can not be accused by the requesting of script through document cooking or from neglows headers.	Su Dan

- Page 487
d 12 XML Hillip Beguest Methods.
outcome of constant ment asyme, now, par ) This method is used
outcome of constant request, on re-hitsalized an instaling one
instant was a re-hitsalize an analy-
telimented method - the most of the
and inded. The GET POST LIGHT
and The URI IE without supported by some
and - The URL/File Location you are lending the
nothing the state of the state
regulato appre- of galando sugar 11
Such Synchronow than take false. By default it
TIS 10 Jave. 14 talk: By default it
reductions wer were name to use to it I I I
sacr polluton to used for suffering to be
by arount its nul. It is obtained
Ex-11 xhor. open ("Cit", data text, true)
ain with some ("GET, "https://jeanplaceholdren.typeadecom/pob) -
struct:
aum send () - This method is used to send the sequent -
to your, but it was from the requests, -
ung Ex xworeand()
of be send (body) - This method is used to send the
of be nequest to the scrum. This is used -
you want to get grand : shows ");
xwo and them yargo many shows of

		-
Date Proj#33	1	Ex- , hr. c
· get hequat Meder (header + value) - Thise method is	1	
le le 1 le de the header to be suit.		Request
Ex who either we Headed "Accor Control-Allow Dorginis	1	can b
Souther boother side ( water Man ) - This method network	1	that
AMERICA FACE	K	on 94
Ex- Anget Responsituador ("Lot Mode Fied");	1	Rifine
gotAllhoponetreader() - This method orchorne all	1	SUNKIN
headen information trains and	1	E- C1
Ex-xhn, getAlkerponer Headen()	I	Usu
about ) - The method is used to coincel the	1	Ace
current nequest. When a request		
ie aborted, the sundy State is changed to XMI HittpRequest. UNSENT(0) and the		Acc Acc
suguest's statio code is to set to o.	-	- RI
· ownideMine Typelmine Type) - It specifies a MIME	1	felino
type often than the one	-	Up8
provided by the server to be used tradead	1	If -
This may be wied for example, to force a	1	cach shipsing
atrium to be treated and parted as	7	
"text/rml", even if the survey done not graphent it as such.	30	Robon
. The Method must be called before calling en	de	HTT
	4	the co

Name and Address of the	
- Page 4-32	
ed le	Ex- xhr. our vide Mine Type ( And / plain):
10	
be gent	Request beader-
ON BUL	A request header is an HITP header that
1.	COOK CARLO IN THE STATE OF THE
returne	that down't sulation to the continue of the
din	AN ATT ON A LANGE
	melage Request Heading, like Acopt Accept & meguate, allow do pudorim conditional like Cookie, Usin-Agent, or
	ALTINITY PARTY OF THE PARTY OF
ne all	general com tailor II.
em the 5	CONOR KIND LEVEL TO 1 1
	MOST alvigationer illa son
	Usin Agent: Mazilla/Seo (Macidosh; Intel Mac OSX
	1000) 51015010) Cucke/2010 plat timeline to a
th	Accept it is the application (x bound + xml, application /x rul;
ust	9 = 0.9 8/4, 9 = 0.9
ard	Accept-Language: in-US, in: 9=0.5
	Accept - Encoding: goip, deflate, bon
	Partie.
	Gener - hottpe //dueloper mo zillar org / test page hotal
	Upgrade-Ise cure - Requests:
ad-	If-Modified-Since: Man, 18 Jun 2016 02: 36:04 674T
wad	If None-Match: " do 10d 68 796 bla 8 978976 dl T08970206"
1	Cache- control: max-gg=0
10	dil/duclopoumosillang/m-Us Hock /Workany/Request hiden
	1 1 1 1 makans header in an HTTT
sport N	that can be used in an
100	1 dept pulaty to
and the	condend of the meloge Reports history like
JIV	condent of the mistage. Regarde Kill

13.50%		
-		
	Data Page 191	
100		applica
	Ago, boration on Somer are used to give	applica
-	a more detailed condact of the stopping.	· applic
1	100 0K	· mpp
	Access - Control - Allow - Origins &	· app
	Content-Encoding: golf	app
The same	Content - Type: text Artin); changet = utf-8	· alph
	Date: Mar. 18 Jul 2016 16:06:00 GAMT	+120
THE REAL PROPERTY.	Etag: "es 616 6 dg d Jas 6 7 8 7 6 B) at 1 2 la"	+ + + + +
2.16	Unib-Alill: Almout=5, max=997	dex
-	Late Modified: Mon, 18 Jun 2016 02:36:0 49MT	· Ju
	Senuori Apachi	tax
V 0.00	Set-Cookingpy = nyvolue; expire = Mon, 17-Jul-	· du
	hather/ , source	· au
Burke.	Transfer-Encoding: shunked	· am
	Vary: Cookis, Accept - Encoding	· au
	XL Bockind-Servis & demopris 2. we bake sol3. mozillara	· au
	X- Cache-Info: not cacheables muto - Hata too loge	ab
	1- kuna-nevajon: 1085259	a
-	X-trans-option, OENY	·ah
-	- https://detallopine.mozilla.org/en-US/doca/Web/HTT	ab
	Atladers.	i al
447 444	Content - Type -	· a
	application/EDI-X12	1 al
+ + 4	application/ FD CFACT	10
	1 http://www.cac.nipt	
	Ithlical and actest - Storlan.	· a
	application/ogg	- de
		i
	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	



Dala Page 4:03	
	civ.
image Ang	1
Image find wicones of history	-
image/x-icom	-
Jagge Lynd. dijyu	·
image sugarens	
ridge / wheep	1
· viduo/mp4	1
· Mideo/quickline	
wideo/ x-me www	F
vide/x-flv	1-
· victorheiben	A
multi pard/mixed	A
- multipart folternother	7
multipart Loulated (ways by MHTML (HTML mail))	. A
was the part / Constitute	at
Mah a HITTO Owner 9	1
Make an HTTP Request - In conduct to make	pz
to the server with Java Snipt, you and	3
an instance of an object with the	- 5
WAS ADDRESS TO THE PARTY OF THE	D
XMI HATBRIOURIT COMES IN WHOME	1
Emi). Create XML + LttpRequest Object-	1
const shr=new MIL Http Request();	1
* Intialize created request- xhorogen ("GET", dota txt", torue);	
showing "hET", doto txt" to 12	1
I sould !;	1
· Sand The Request-	
shr. mend()	
	1

Page 4-93	
11-102	Const who = new MILE Prequest Object
	Const xhn= new XM L Request():
	Twitialia New SMIP
Tan 1	you all mated many
	TC " " " " " " " " " " " " " " " " " " "
0.0	. Initialia consted must object  Thitialia consted mequal  The open ("POST" " " " " " " " " " " " " " " " " " "
	If nuthood type POST the pour may form  And set Request Header before sending request  Send The Request Header ("Content-type" abbied to
	who set Request Header (10 ) set and sending recent
- 1	Send The Request - ("Content-type", application ( TSON );
	xhoresend (boody);
	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	Handling Survey Response
	Deponel -
2	After
	nopose back.
	noporal back. The you will riceiu a
	At this strang, you need to tell the XMIHTH object which taxoscript function will hardle request
-	object which Java Snipt Runction will hardly quet
10	support of stating the anchoragement the as
ake	property of the object and naming it often
-	the function to call when the signed change
cd	State:
	Dr. 11) Funtion range Of The Function () K
	nhn.onneadystatichange = nameOf TheFunction;
	MATION TRANSPORTER
	the Car of the foundation
	(ii) Cloud Anonymous Function-
	xhowite adjutation and Tune some hands here
	1/ Process the server susponed how.
-	
	(IV) Using Amow Function -
	the sure adjustate change = () => < the server supposes here.
	1/ P sier es the server supports now

22.5	Date Pur 9	1
		Ad
	Response Handling Founction First, the function	2
	request's state of the state has the value	+
	of XML HITTO Request DONE (novorceponding to 4)	a
Caral .	that means that the full server ourpoints	·×
Contract of the last of the la	was recited and It's OK for you	
	to continue processing it.	·x
	who owner dystatichange - function () &	
	If (show medy State = = XML Httphiquest. DONE) (	
	ME ungling is good, the grotown well	
	succeived.	Dr.CD_
1	> else <	
120.00	Mot ready get.	
S - 1 - 2		
	Must shap the Hill of a life to	
	Next, check the HIHD surposes status cades of the HTTP surposes. We differentiate between	
	a successful AXX call by checking for a	
	200 OK response code	
	> xhor. overeadjotatichange = function () <	
	1 Proces the server response hore	
	if ( who, status === 200) {	
	//forfect	
	) de ( ) 10 - 1 1 1 1 1 1	
	// Thre was a problem outh throught	10
	Senur Eman	
	)	
	) las 4	1
	MACH greatly Yet	
	)	1
3)		4

	207
PH/995	After chicking the state of the original and
exion	the HTTP states code of the original and the survey you want with the
Leth	can do what were you want with the date
e value	the survey you want with you
42	OCCAR II I for have
onle	xhir-naponer Text - 91 netwine the govern maponer as
10·L	a still the govern richard as
	who suppose MI - It and of text.
Tu.	- who suppose XMI - 24 sections the mapping as an >
WE){	XML Document object you con
Lund 1	Drawou with Java Script DOM - Functions.
Marie .	and const sohr-new XML+12th Request ();
	xhoropen("GET", "date bx)", trus);
	Anti-converdy atouts hange - function () (
	if (xhow suadystate === XML HUBRIQUELDONE) (
1	if (nhn. 2701 w = == 200 X
cado	conside. log (Mr);
between	Consolulog ( dr. response Text)
n a	) 2024
	considerleg (Problem with Request );
	> Company of the second of the
	)-
	xhr. and ();
usugust.	(ii) const shore new XMLHHIPRequest()
introd	xhoragen ("GET, 'dataitset', tous);
emon	1 = +11m2+12m1/2
	1// 1 1 200/09/4
	Consolelog (xhr):
	consolely (xhr);
	) Det

Date Pogn SA7	1
consider log ("Problem with Request"):	1
Consider 100 Fradem Learn Respuss	1
	1
show a cod (2)	1
- War and the second se	1
const xhr= new XMLHHbRequest ();	1
shrippen ("GET", "datortat", true):	1
show surready state bong = ()=X	
if (xlor, ready State = = = XML + HtpRequest: DONE)	1
if (xhr. status = == 200) (	-
canal. log (shr);	1
Controlle Lag (Shr. response Test)	
) also <	-
corade logo Problem with Request");	-
The Artifician Company of the Compan	4
7,	1
	-
2hoz. send();	1
(iv)	1
(1V) coret xhi = new XML Hell prequest();	+
xhor. open('GET, 'datatet', torus)	-
101 1 11	-
10 CM 31 arts = = = 200 ) (	-
consolelog (show):  consolelog (show):  consolelog (show):  las (	1
( tel knoderc. and bourt 1xt)	1
12.28.5	1
corpolatog C'Proplem with Request's	1
	1
shr. sendy	1
NWI XINOY;	1
	1

	1
Diate Page St.D.9	Sentax
Ex-introducing russ - handson (a) (	- x- x
I leaded: 1/ The Amount data currently transfer	NH.
1. total; 11 The Total Amount of data to be tough	and.
Chief I was 1 10 1	1
eloaded: 17h Amount out data currently travely	1 antim
Intotal; 11 The Total Amount of Data to be trougher	4
);	Tice
	la la
· consumer The XML HittpRequest Frent Tanget consumore is	- Jim
XAMI WATER I function called when you	Synto
XML Hittplequest transaction field due to an	Ex
Syntax XML Hittpfequest oneroson = callback;	
Dr- who person function U.	>
· Conspoleton ("Exercon has occured");	
)	
1 1 1 75 244 14110 15 75 1 1 7	
onloadend - The XML Httplequest Exent Target on loader	10
XMI HttpRequest transaction onto I ransferring	
date.	
Syntax XML HttlpRequest.onloadend = callback; Ex-sharonloadend = function()	
consider long ("The Inargantion and "");	
onabout - The XML+ttlp Request Front Tanget on bbout is	
the function colled when an XM HABRES	unt
transaction is absorted, such as when the	
MIL Hitthequest about function is called.	

