Web Page Caching and Refresh Handling (Web Page Revisit Cache Handling)										
3	Clie			HTTP Server	EventHelix.com/EventStudio 2.5					
Web Browser				Web Server	Eventification Contraction 2.5					
Port	1368 Port	Port 1366		Port 80	10-Oct-05 04:42 (Page 1)					
Thic Tute	ial Coguenae Diagram	was gaparated with F	WontCtd!-	System Decimen 2	E (http://www.EvontHoliv.com/EvontCtdic)					
This Tutor	iai Sequence Diagram	was generated with E	ventStudio	System Designer 2.	5 (http://www.EventHelix.com/EventStudio).					
					LEG: Web Cache handling when the user revisits home page					
This seque HTTP prim	ence diagram tutorial c nitives that facilitate the	describes the web cac e implementation of v	hing featur veb browse	e on the web browser level caching are s	er side. hown using a live example.					
- The user	arios are covered: revisits the EventHelix issues a refresh comr	c.com home page. mand for the EventHe	lix.com hor	me page.						
Copyright	© 2005 EventHelix.co	m Inc. All Rights Res	erved.							
Scenario:	The user revisits the E	ventHelix.com home	page.							
		Check if a local copy o avail	f the requeste able.	d page is	The browser checks if a local copy of the page is available. In this case, it is available. The timestamp of the local copy in the browser cache is recorded. This timestamp will be sent to the web server in the following HTTP GET.					
				/, ion: HTTP /1 .1, Since: Mon, 03 Oct 2005 T,	The browser (Internet Explorer 6.0) requests the home page by specifying the requested URI as "/". The browser uses the If-Modified-Since primitive to indicate to the web server that it already has a cached version that is timestamped "Mon, 03 Oct 2005 10:31:47 GMT".					
			been mo	the requested page has dified since Mon, 03 Oct 005 10:31:47 GMT	The web server checks the page modification time against the time specified in the HTTP request.					
				lot Modified ion: HTTP /1 .1,	The web server determines that the page has not been modified since "Mon, 03 Oct 2005 10:31:47 GMT", so it replies back to the browser that the page has not been modified. HTTP 304 code is used to notify that the page has not changed since the specified date.					
		Display page and embed	dded images f	rom cache	The web server has indicated that the page has not been modified, thus the cache entry is current. The browser displays the page from the cache. In this case, the browser also assumes that none of the images contained in the page have been modified.					
			/even1000 .cs Request Versi	/_themes /eventhelix ss, ion: HTTP /1 .1, Since: Sat, 22 Nov 2003	The browser requests the Cascading Style Sheet used in the page from the web server. Again, the timestamp from the cache is sent to the web server.					
			been mo	the requested page has diffied since Sat, 22 Nov 03 03:08:23 GMT						
		and the second s		lot Modified ion: HTTP /1 .1,	The CSS file has not been modified since the specified time, the web server sends HTTP 304 to signal that.					
	Render the page using the CSS file f			from the						

Web Page Caching and Refresh Handling (Web Page Refresh Client Web Browser					HTTP Server	<del></del>		
					Web Server	EventHelix.com/EventStudio 2.5		
Port		1367	Port 13	366	Port 80	10-Oct-05 04:42 (Page 2)		
is Tutor	 ial Sequence Diagran	 n was gener	rated with Eve	entStudio Sy:	stem Designer 2	2.5 (http://www.EventHelix.com/EventStudio).		
						LEG: Web Cache handling when the user refresh command for the home page		
enario:	 The user issues a ref	resh comma	and for the Ev	ventHelix.cor	n home page.	command for the norms page		
	differs from a revisit		browser will i	issue an HTT	P GET for each			
	nent contained in the							
so note eb page	that the browser uses elements are being o	s two client concurrently	end ports to requested vi	speed up the ia two differe	e page refresh. Int ports.			
		HTTP GET				Request the page from the web server.		
			sion: HTTP /1 1, Since: Mon, 03 (		47 GMT,			
			HTTP 304 No			The web server indicates that the page has not been		
			sion: HTTP /1 .1, un, 09 Oct 2005			modified since the specified time.		
			НТТР (					
		Request Vers	/_themes /even sion: HTTP /1 .1, Since: Sat, 22 N					
		HTTF	P GET					
	Request URI: /EventStudi Request Version: HTTP /1 If -Modified -Since: Thu, 1 tcp.len = 375	o /images /hg .1, 17 Feb 2005 13	gif, 3:07:11 GMT,					
	4		lot Modified					
	Request Version: HTTP /1 tcp.len = 215	.1,						
	Request URI: /EventStudio		P GET		<b></b>			
	Request Okt. /Eventstudi Request Version: HTTP /1 If -Modified -Since: Sun, / tcp.len = 386	.1,	, J					
		HTTP 304 Not Modified						
		Request Vers tcp.len = 215	sion: HTTP /1 .1,					
			нттр (					
		Request Vers	/EventStudio /ir sion: HTTP /1 .1, Since: Sat, 19 Fe					
			HTTP 304 No					
		Request Vers tcp.len = 215	sion: HTTP /1 .1,					
			HTTP (					
		Request Vers	/EventStudio /e sion: HTTP /1 .1, Since: Wed, 25 .					

Web Page Caching		sh Handling ent	g (Web Pag	ge Refresh		
		HTTP Server				
Port 1368		rowser 1367	Dort	1366	Web Server Port 80	
1 011 1300		TTTP 304 N			1 011	00
Réguest Ver	rsion: HTTP /1		iot iviodine	u		
tcp.len = 21!	5	] '				
		HTTE	GET			
Request UR	I: /EventStudio	/images /syst	em _design _	screen _small	.gif,	
If -Modified	sion: HTTP /1 . -Since: Sat, 13	Nov 2004 14	:53:59 GMT,			
tcp.len = 398	8					
				ot Modified	k	
		Request Vers tcp.len = 215	ion: HTTP /1 .	.1,		
				057		
		Doguest HDI:		GET /images /sequ	ience diagram	n cmall
		ijpg, Request Vers			ierice _diagrai	ii _siriaii
		If -Modified -:	Since: Sat, 16	Jul 2005 16:3	86:28 GMT,	
		tcp.len = 395				
4		TTTP 304 N	lot Modifie	d		
Request Ver tcp.len = 21	sion: HTTP /1 . 4	.1,				
		HTTF	CET			
Reguest UR	I: /EventStudio			agram small.	ipq,	
Request Ver	sion: HTTP /1 . -Since: Sat, 16	1,			J1 3*	
tcp.len = 400			·			
			HTTP 304 N	lot Modified	l k	
		Request Vers tcp.len = 215	ion: HTTP /1 .	1,		
		'				
Dequest Ver	sion: HTTP /1	TTTP 304 N	lot Modifie	d		
tcp.len = 21!		.'',				
			HTTE	GET		
		Request URI:	/images /pho	to .gif,	<b></b>	
			ion: HTTP /1 . Since: Thu, 06	.1, 5 Jan 2005 02:	:37:44 GMT,	
		tcp.len = 365				
		HTTP				
	I: /RealtimeMar sion: HTTP /1		/mobile .gif,			
If -Modified tcp.len = 38	-Since: Sat, 18 3	Dec 2004 11	:50:13 GMT,			
'		ITTD 004 N	L L N A L'C'			
Request Ver	sion: HTTP /1	TTTP 304 N	lot Moditie	a		
tcp.len = 21!		'				
			HTTP 304 N	ot Modified	k	
		Request Vers tcp.len = 214				
		ιομ.ισπ = 214				
<u> </u>	L /D. W. **	HTTP	_			
Request Ver	I: /RealtimeMar sion: HTTP /1	1,				
lf -Modified tcp.len = 37	-Since: Sun, 02 6	z Jan 2005 22	::17:00 GMT,			

EventHelix.com/EventStudio 2.5

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