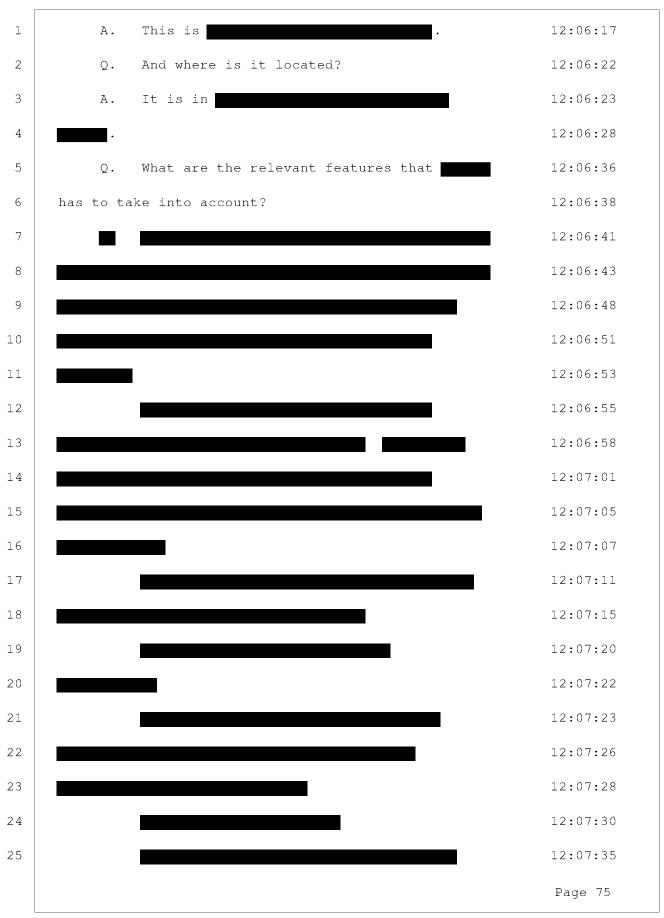
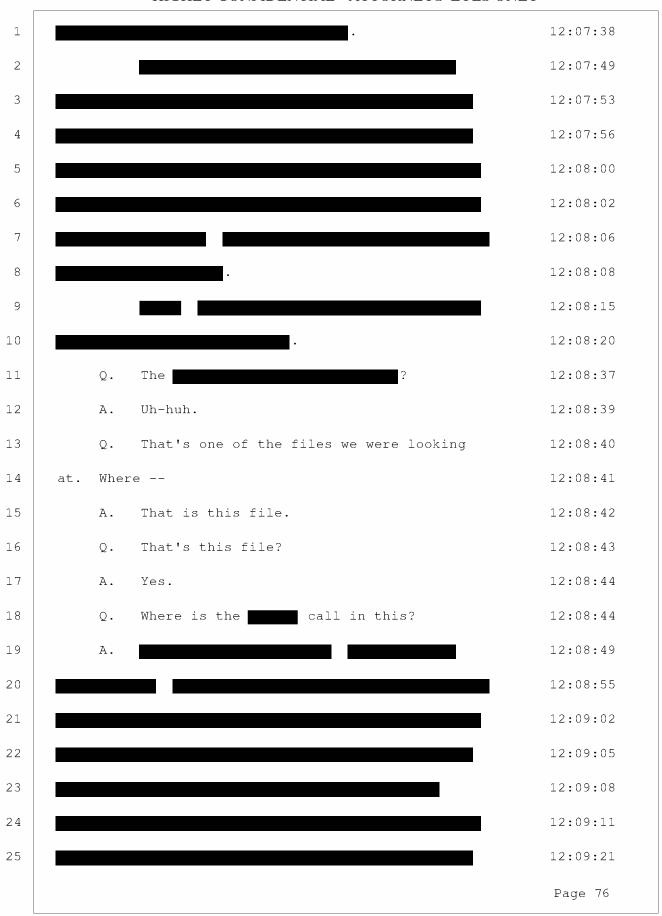
# EXHIBIT JJ

1	UNITED STATES DISTRICT COURT			
2	NORTHERN DISTRICT OF CALIFORNIA			
3	MATTHEW CAMPBELL, MICHAEL			
4	HURLEY, and DAVID SHADPOUR,			
5	on behalf of themselves and			
6	all others similarly situated,			
7	Plaintiffs,			
8	vs. No. 4:13-cv-05996-PJH			
9	FACEBOOK, INC.,			
10	Defendants.			
11				
12				
13	**HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY**			
14	**CONTAINS SOURCE CODE**			
15				
16	VIDEOTAPED 30(b)(6) DEPOSITION OF			
17	MICHAEL ADKINS			
18	Wednesday, October 28, 2015			
19				
20				
21	Reported by:			
22	COREY W. ANDERSON			
23	CSR No. 4096			
24	Job No. SF 2173701A			
25	PAGES 1 - 124			
	Page 1			

1	Q. Okay. And I saw that earlier prior to the	10:46:31
2	deposition and at the beginning of it you were doing	10:46:37
3	something with the computer. What were you doing	10:46:41
4	initially?	10:46:45
5	A. The source code as delivered appeared to	10:46:47
6	be compressed.	10:46:49
7	Q. Uh-huh.	10:46:51
8	A. And when compressed into a single archive	10:46:53
9	you cannot inspect the individual files.	10:46:56
10	So I decompressed it onto the file system	10:47:01
11	of the computer in the event that I would need to	10:47:04
12	access the individual source files for the purposes	10:47:07
13	of the deposition.	10:47:10
14	Q. As part of your preparation for this	10:47:11
15	deposition, did you review the source code that	10:47:31
16	specifically relates to topic 1 (c)?	10:47:35
17	A. I reviewed the source code for	10:47:38
18	•	10:47:43
19	Q. Okay. Can you please identify the source	10:47:43
20	code that carries out the processes characterized in	10:47:56
21	section 1 (c)?	10:48:01
22	A. Yes.	10:48:09
23	Q. Please do.	10:48:10
24	A. This is the source code,	10:48:49
25	and the other files in this directory are associated	10:48:51
		Page 45

1	JavaScript enabled, the JavaScript functions monitor	11:04:15
2	the individual key strokes in a manner often used	11:04:24
3	for things such as type ahead search looking for	11:04:29
4	similar patterns as to what	11:04:35
5	extract, specifically the the public Internet	11:04:40
6	standards governing the format of URLs or domain	11:04:45
7	names.	11:04:48
8	That is code which runs entirely on the	11:04:53
9	user's machine, and when it detects such a string,	11:04:54
10	it will make an asynchronous HTTP call to our	11:05:01
11	service to team to generate a preview.	11:05:06
12	And at that time while attempting to	11:05:12
13	generate the preview, we would consult	11:05:13
14	internal on Facebook's server.	11:05:20
15	Q. I believe you said that the JavaScript	11:05:22
16	uses key strokes to generate things such as type	11:05:27
17	ahead?	11:05:30
18	A. Yes. So if you are using an online	11:05:33
19	product, and let's say you are writing the name of a	11:05:36
20	person you know or you are typing an e-mail address,	11:05:39
21	the product might have a list of recognizable search	11:05:46
22	terms which it would then offer to fill in for you	11:05:50
23	so you do not have to type the entire name or	11:05:53
24	address.	11:06:01
25	Q. During the 2010 to 2012 timeframe when	11:06:02
		Page 54





1		12:09:25
2		12:09:28
3		12:09:31
4		12:09:34
5		12:09:35
6		12:09:38
7	Q. So the Facebook abuse- and	12:09:45
8	security-related platform that's referenced in this	12:09:47
9	section?	12:09:52
10	A. Uh-huh.	12:09:53
11	Q. Is	12:09:53
12	A. I would say that is	12:09:55
13	Q. Okay.	12:09:56
14		12:10:01
15	A. Those would be the ones we previously	12:10:03
16	discussed: , et cetera.	12:10:05
17	Q. Which, what's the name of the	12:10:45
18	that is called here?	12:10:48
19	A. The name of the check?	12:10:51
20	Q. Uh-huh.	12:10:53
21	A. It is simply called	12:10:54
22	Q. Okay. And what does that function	12:10:56
23	perform?	12:11:00
24	A.	12:11:01
25		12:11:05
		Page 77

1	A. Uh-huh.	13:44:52
2	Q. States "Various message statistics,	13:44:54
3	including all three formats for storing URL share	13:44:56
4	data-message-specific information, user-specific	13:45:00
5	share objects, and the global share object, were	13:45:02
6	part of a universe of data available to the site	13:45:05
7	security abuse- and security-related platforms for	13:45:07
8	URL classification and other security efforts."	13:45:10
9	Is that correct?	13:45:13
10	A. That is correct.	13:45:14
11	Q. What are the message statistics that are	13:45:21
12	being referred to here?	13:45:24
13	A. Message statistics for site integrity and	13:45:26
14	abuse- and security-related purposes would refer to	13:45:30
15	things like the number of messages a given user had	13:45:33
16	sent over various periods of time, the number of	13:45:37
17	specific recipients they have sent, the number of	13:45:41
18	messages they sent containing URLs or attachments or	13:45:44
19	other statistics that helped form a profile that	13:45:48
20	identifies abuse vectors.	13:45:51
21	Q. Where is the source code that carries out	13:46:05
22	this functionality?	13:46:07
23	A.	13:46:11
24	he	13:46:13
25		13:46:16
		Page 118

1		13:46:22
2		13:46:25
3	Q. What sort of statistics would be from the	13:46:32
4	global share object would be available to the	13:46:35
5	integrity and abuse- and security-related platforms?	13:46:38
6	A. The sorts of statistics that and I'm	13:46:45
7	not sure that "statistics" is quite the correct	13:46:48
8	word, it's probably just more like data would be	13:46:51
9	available would be things that like the date the URL	13:46:53
10	was first shared on Facebook or perhaps the number	13:46:57
11	of people who have shared it.	13:47:00
12	Q. What format was the user specific share	13:47:30
13	object information stored in?	13:47:33
14	A. I believe it would be stored as a share	13:47:41
15	FBobject.	13:47:43
16	Q. Okay. And where does that share FBobject	13:47:51
17	get stored?	13:47:54
18	A. Facebook objects are typically stored in a	13:47:55
19	MySQL database and in a cache system for quick and	13:48:00
20	easy access.	13:48:06
21	Q. And where are the global share objects	13:48:16
22	stored? I'm sorry, withdrawn.	13:48:18
23	What's the format in which the global	13:48:20
24	share objects are stored?	13:48:22
25	A. They are similar to user specific share	13:48:27
		Page 119

1	I, the undersigned, a Certified Shorthand
2	Reporter of the State of California, do hereby
3	certify:
4	That the foregoing proceedings were taken
5	before me at the time and place herein set forth;
6	that any witnesses in the foregoing proceedings,
7	prior to testifying, were administered an oath; that
8	a record of the proceedings was made by me using
9	machine shorthand which was thereafter transcribed
10	under my direction; that the foregoing transcript is
11	a true record of the testimony given.
12	Further, that if the foregoing pertains to
13	the original transcript of a deposition in a Federal
14	Case, before completion of the proceedings, review
15	of the transcript was not requested.
16	I further certify I am neither financially
17	interested in the action nor a relative or employee
18	of any attorney or any party to this action.
19	IN WITNESS WHEREOF, I have this date
20	subscribed my name.
21	Dated: 10/30/2015
22	P 1 1 2 and and
23	Corey W. anderson
24	COREY W. ANDERSON
25	CSR No. 4096
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#### **Errata**

Case: Campbell et al. v. Facebook, Inc.

Case No. 13-CV-05996-PJH

Date of Deposition: October 28, 2015 Name of Deponent: **Michael Adkins** 

#### Reason codes:

- 1. To clarify the record.
- 2. To conform to the facts.
- 3. To correct transcription errors.

Page	Line	Reads	Should Read	Reason
Gle	obal			1
Global				1
Glo	obal			1
Glo	obal	sigma	Sigma	1
13	12	at – during my time at Facebook.	during my time at Facebook.	1
16	18	some – some time ago, some number of months ago.	some time ago, some number of months ago.	1
16	23	there – that this case existed and that we were on	this case existed and that we were on	1
19	17	If – if I was notified of a case like	If I was notified of a case like	1
20	2	I can't remember precisely or than that I	I can't remember precisely other than that I	3
20	3	was looking for anything specific. Mostly just	wasn't looking for anything specific. Mostly just	3
24	19	I have – I have seen	I have seen	1
34	8	operational reasons why not such as system outages	operational reasons why not, such as system outages	1
37	7	machine learned	machine-learned	1
38	17	building a	building the	3
41	. 22	set to – to dictate	set to dictate	1
42	10	team, it	team. It	1
43	2-3	and Windows phones. If we need a new feature – each of which	and Windows phones, each of which	1
47	21	checking cashes, we rely heavily on cache items.	checking caches. We rely heavily on cached items.	3

Page	Line	Reads	Should Read	Reason
48	20-23			1
50	6	do the thing you are supposed to do	"do the thing you are supposed to do"	1
54	11	service to team to generate a preview	service to attempt to generate a preview	3
61	15	details	detailed	3
65	16	message's	Messages	3
65	17	post send	post-send	3
68	10	message's	Messages	3
69	11	pass	passed	3
72	24	sender allowed to send	sender is allowed to send	3
76	24			3
80	4	machine learned ·	machine-learned	3
80	24	,	that	1
81	19	to black	to the black	1
83	21	miss behave	misbehave	3
84	15	taken is	taken it is	3
87	3	small attachments	small. Attachments	3
89	19	is in sigma this is in	is in Sigma. This is in	3
101	9	sand attach reports	and attachments	3
119	8	that	[remove]	1
121	9	Is it	It is	3

