

[3/12/16, 10:00:05 AM] Weekend Testers Americas: Weekend Testers Americas has renamed this conversation to "WTA-70: REST AND API With ARC (INTRO)"

[3/12/16, 10:00:17 AM] Weekend Testers Americas: Hello everyone and welcome to Weekend Testing Americas.

[3/12/16, 10:00:23 AM] Weekend Testers Americas: This is session #70.

[3/12/16, 10:00:39 AM] Weekend Testers Americas: The role of WTA today is being played by Michael Larsen (waves).

[3/12/16, 10:01:01 AM] Weekend Testers Americas: For those who haven't met me before, long time tester, podcast producer, founder and facilitator of WTA.

[3/12/16, 10:01:08 AM] Weekend Testers Americas: I'm the cat herder :D

[3/12/16, 10:01:28 AM] Weekend Testers Americas: You can follow me on Twitter at @mkltesthead, or read my blog at <http://mkltesthead.com>

[3/12/16, 10:01:29 AM] JeanAnn Harrison: Hi, Am Jean Ann Harrison, located in the Greater Orlando, FL Area.

I've been doing testing as a job for over 15yrs and mobile testing for 10 yrs now. Wow, how time flies! I've done kinds of testing on mobile phones, tablets and medical device testing. And if you got a traffic ticket from the LAPD, you can blame me. I tested those mobile devices too and trained the officers to use them. In particular I love test design and Exploratory testing. You can address me as "JAH" to make things easier and faster. :) You can also catch me on Twitter: @JA_Harrison

[3/12/16, 10:01:46 AM] Trisha Chetani Agarwal: Thank you for conduction WTA session . Hi All , I am Trisha from Bangalore India and I tweet @trisha1212

[3/12/16, 10:02:22 AM] Swetha M: Call started

[3/12/16, 10:02:55 AM] Weekend Testers Americas: again, reminder: this is a text only session. many people do not have the bandwidth to handle a voice call.

[3/12/16, 10:03:04 AM] Trisha Chetani Agarwal: @ Swetha M :please stop making the group call

[3/12/16, 10:05:05 AM] Srinivas Kadiyala: Hi All,

I am srinivas kadiyala from Mysore,India. Tester since 2012. Working for Ecommerce Product Based Company.

I am available as "srinivasskc" everywhere :)

[3/12/16, 10:03:15 AM] Swetha M: Call started

[3/12/16, 10:04:18 AM] Swetha M: Matt B and Shweta Daiv were unable to join this call as they need to update Skype first or they're offline.

[3/12/16, 10:03:25 AM] Weekend Testers Americas: When we break into open testing, if you wish to pair via Skype voice, you may.

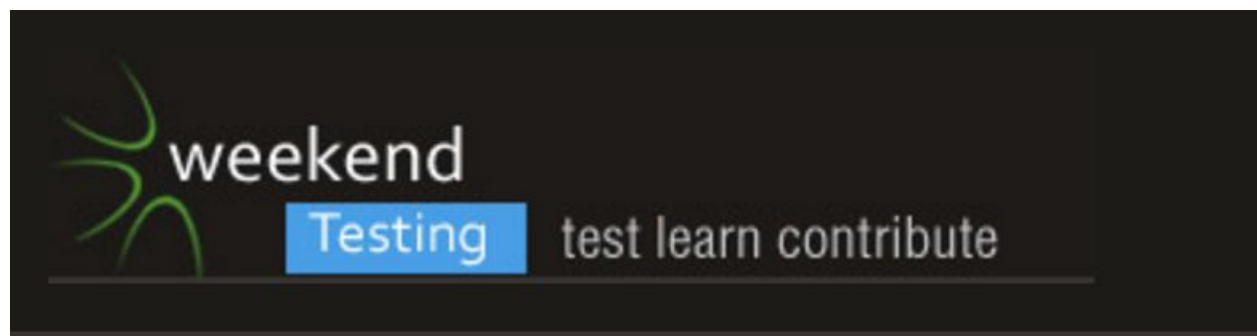
[3/12/16, 10:03:35 AM] Heba Hosny: Hi everyone, I'm Heba Hosny from Alex, Egypt, I'm working as a QA engineer for around 10 years now, web mobile, enterprises and some startups on the go (Twitter: @hosnyh:)

[3/12/16, 10:03:51 AM] Weekend Testers Americas: but for this main session, please don't call, I will hang up on all of them ;).

[3/12/16, 10:04:24 AM] Swetha M: Call

[3/12/16, 10:05:18 AM] Trisha Chetani Agarwal: Call ended

[3/12/16, 10:05:37 AM] Weekend Testers Americas: Thank you everyone for coming out today.



[3/12/16, 10:05:43 AM] brendan connolly: Hi my name is Brendan from Santa Barbara, I've been testing for over 7 years. You can follow me on Twitter @theBConnolly and I blog about testing at <http://www.brendanconnolly.net>

[3/12/16, 10:05:49 AM] Weekend Testers Americas: Has everyone introduced themselves?

[3/12/16, 10:05:51 AM] live:asokt: live:asokt joined the conversation

[3/12/16, 10:06:05 AM] Weekend Testers Americas: hello asokt :).

[3/12/16, 10:07:03 AM] Weekend Testers Americas: Going once, going twice...

[3/12/16, 10:07:06 AM] Mark Halvorson: Hi, I'm Mark Halvorson from Minnesota, USA. I'm a tester with 3 years experience on ecommerce websites, enterprise systems, and a little of Mobile testing as well. My company is just getting started with API tools, so looking forward to this session!

[3/12/16, 10:07:11 AM] Weekend Testers Americas: Weekend Testers Americas added Hannah Mason to this conversation

[3/12/16, 10:07:22 AM] Weekend Testers Americas: Hello Hannah

[3/12/16, 10:07:39 AM] Weekend Testers Americas: Looks like we have a couple of late arrivals, but still in time.

[3/12/16, 10:07:53 AM] Weekend Testers Americas: Please introduce yourselves if you have not yet. You have 60 seconds :D

[3/12/16, 10:08:15 AM] Swetha M: I'm swetha. I have 2 years of experience in QA

[3/12/16, 10:08:44 AM] Hannah Mason: Hiya, I'm Hannah, from London, UK. I'm very new to testing but learning heaps!

[3/12/16, 10:08:51 AM] Swetha M: Hi This is Asok. I am attending along with swetha

[3/12/16, 10:09:04 AM] Swetha M: Call started

[3/12/16, 10:09:30 AM] Weekend Testers Americas: reminder: these sessions are text only, no calls.

[3/12/16, 10:09:30 AM] Trisha Chetani Agarwal: Call 19 seconds

[3/12/16, 10:09:47 AM] Weekend Testers Americas: All right, let's get into this :).

[3/12/16, 10:09:55 AM] Weekend Testers Americas: Weekend Testers Americas has renamed this conversation to "WTA-70: REST AND API With ARC (MISSION)"

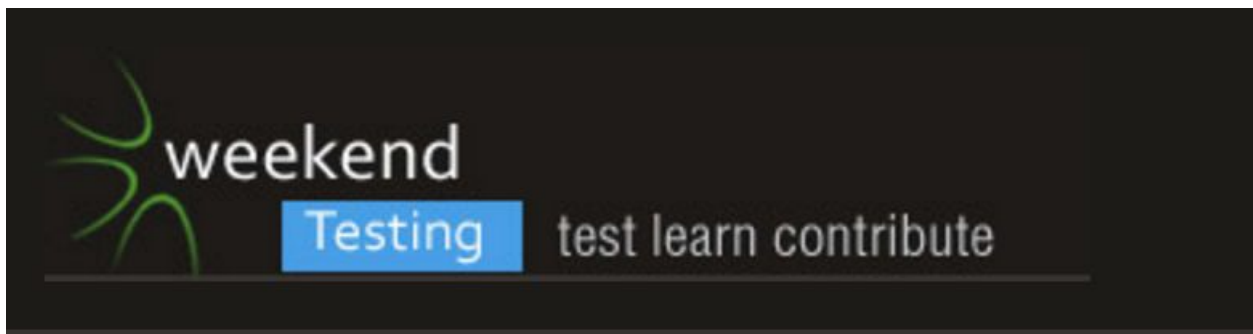
[3/12/16, 10:10:53 AM] JeanAnn Harrison: First I have a question. I followed your instructions but I have no idea of hwat you mean by "make a change" and then I do something to the request URL? What? Do I copy it first and then paste it somewhere?

[3/12/16, 10:10:54 AM] Carol Brands: Was AFK taking bus home, I'm Carol in Oregon. Been testing 4ish years. Tweet at @csbrands I think.

[3/12/16, 10:11:03 AM] Weekend Testers Americas: So the first place to start is some terminology.

[3/12/16, 10:11:37 AM] Weekend Testers Americas: API (application program interface) is a set of routines, protocols, and tools for building software applications. The API specifies how

WTA-70: API's and ARC REST Client



software components should interact and APIs are used when programming graphical user interface (GUI) components.

[3/12/16, 10:11:50 AM] Weekend Testers Americas: From What is Application Program Interface (API)? Webopedia

www.webopedia.com/TERM/A/API.html

[3/12/16, 10:12:27 AM] Weekend Testers Americas: Basically , an API is the set of rules that a site or sites use to allow outside agents to access their information.

[3/12/16, 10:13:09 AM] Weekend Testers Americas: REST stands for Representational State Transfer. (It is sometimes spelled "ReST".) It relies on a stateless, client-server, cacheable communications protocol -- and in virtually all cases, the HTTP protocol is used. REST is an architecture style for designing networked applications.

[3/12/16, 10:13:23 AM] Weekend Testers Americas: taken from http - What exactly is RESTful programming? - Stack Overflow

stackoverflow.com/questions/671118/what-exactly-is-restful-programming

[3/12/16, 10:13:58 AM] Weekend Testers Americas: The idea behind REST is that sites should not have to make decisions about how you, the end user, display data that you get from them.

[3/12/16, 10:14:23 AM] Weekend Testers Americas: If you send a valid request for a particular element, they will send it back to you, in the format you wish to receive it in.

[3/12/16, 10:14:41 AM] Weekend Testers Americas: If you don't make any specific requests, you will receive it back as HTML.

[3/12/16, 10:14:58 AM] Weekend Testers Americas: If you specify a different format, then you will receive it in that format.

[3/12/16, 10:15:33 AM] Weekend Testers Americas: Common alternatives to raw HTML are XML and JSON

[3/12/16, 10:16:00 AM] Weekend Testers Americas: for more on JSON, see <http://www.json.org/>

[3/12/16, 10:16:28 AM] Weekend Testers Americas: Again, this session isn't meant to be a tutorial on APIs, REST and JSON specifically.

[3/12/16, 10:17:03 AM] Weekend Testers Americas: Instead, we want to play with a tool that introduces you to API and REST concepts, and that is the Advanced REST Client from Google, or ARC.

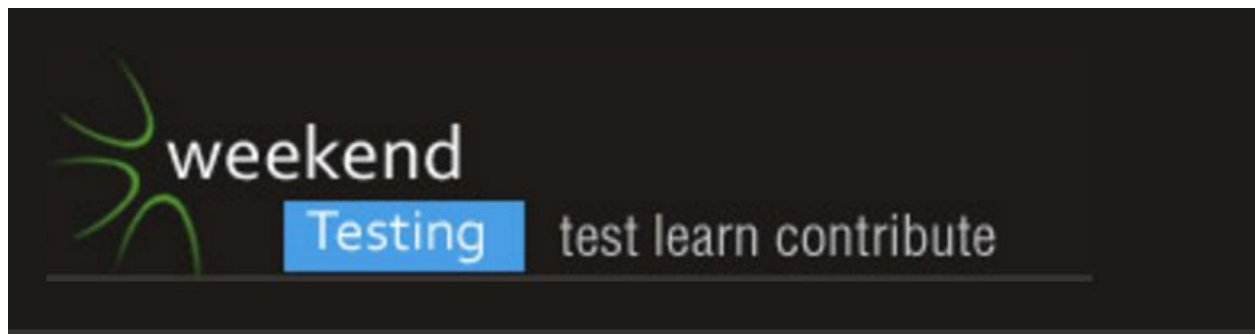
[3/12/16, 10:17:20 AM] Weekend Testers Americas: Some asked before the session started, why are we testing ARC?

[3/12/16, 10:17:42 AM] Weekend Testers Americas: First, it's a way to wrap your head around how requests are structured and responses are received.

[3/12/16, 10:17:59 AM] Weekend Testers Americas: It doesn't require the user to be familiar with tools like cURL.

[3/12/16, 10:18:13 AM] Weekend Testers Americas: and I figured you'd all like an app to explore and beat on for awhile ;).

WTA-70: API's and ARC REST Client



[3/12/16, 10:18:22 AM] Weekend Testers Americas: So there ya' go.

[3/12/16, 10:18:46 AM] Weekend Testers Americas: For those who do not yet have ARC on their system. go to

<https://chrome.google.com/webstore/detail/advanced-rest-client/hgmloofddfdnphfgcellkdfbfjelo/reviews?hl=en-US>

[3/12/16, 10:19:01 AM] Weekend Testers Americas: Install it in your browser.

[3/12/16, 10:19:15 AM] Weekend Testers Americas: Then select it from the Apps tab in your browser.

[3/12/16, 10:19:32 AM] Weekend Testers Americas: When it comes up, it should look something like this:

[3/12/16, 10:20:01 AM] Weekend Testers Americas: Image

[3/12/16, 10:20:22 AM] Srinivas Kadiyala: So SOAP is a REST Api ?

[3/12/16, 10:21:08 AM] Weekend Testers Americas: Srinivas, similar idea, but no.

[3/12/16, 10:21:22 AM] Weekend Testers Americas: SOAP is not REST.

[3/12/16, 10:21:38 AM] Weekend Testers Americas: If you'd like to see a good breakdown on it, check out <http://spf13.com/post/soap-vs-rest>

[3/12/16, 10:22:36 AM] Weekend Testers Americas: To pull in from the site above:

[3/12/16, 10:22:37 AM] Weekend Testers Americas: Someone asked me a question today "Why would anyone choose SOAP (Simple Object Access Protocol) instead of REST (Representational State Transfer)?" My response: "The general rule of thumb I've always heard is 'Unless you have a definitive reason to use SOAP use REST'". He asked "what's one reason?" I thought about it for a minute and honestly answered that I haven't ever come across a reason. My background is building great internet companies.

While he seemed satisfied, I wasn't very happy with that answer, I did some homework and here's my summary on REST versus SOAP, the difference between SOAP and REST and why anyone would choose SOAP. As usual, with competing technologies both have value, the challenge is to know when to use each one (spoiler: luckily the answer is almost always REST).

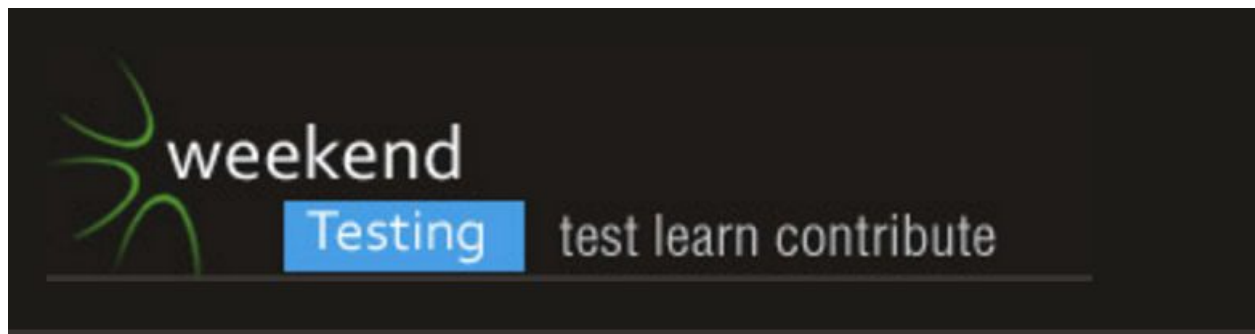
I'm clearly boiling down a somewhat so please don't flame me for simplifying things, but feel free to provide any corrections you feel are necessary.

Definitions REST

RESTs sweet spot is when you are exposing a public API over the internet to handle CRUD operations on data. REST is focused on accessing named resources through a single consistent interface.

SOAP

WTA-70: API's and ARC REST Client



SOAP brings its own protocol and focuses on exposing pieces of application logic (not data) as services. SOAP exposes operations. SOAP is focused on accessing named operations, each implement some business logic through different interfaces.

Though SOAP is commonly referred to as “web services” this is a misnomer. SOAP has very little if anything to do with the Web. REST provides true “Web services” based on URIs and HTTP.

[3/12/16, 10:23:28 AM] Weekend Testers Americas: Back to the mission :).

[3/12/16, 10:24:29 AM] Weekend Testers Americas: Your goal, if you choose to accept it, is to explore some sites that you get data from. Preferably, pick sites that require you to have an authenticated presence.

[3/12/16, 10:24:53 AM] Weekend Testers Americas: You don't have to, of course, but if you want to see if security authorization is working, well, it certainly helps ;).

[3/12/16, 10:25:14 AM] Weekend Testers Americas: My suggestion for today's session...

[3/12/16, 10:25:21 AM] Weekend Testers Americas: pick a site that interests you.

[3/12/16, 10:25:34 AM] brendan connolly: M;;;

[3/12/16, 10:25:56 AM] Weekend Testers Americas: If anyone would like to pair with me, I will show you Socialtext and how we use ARC with our testing.

[3/12/16, 10:25:58 AM] brendan connolly: Sorry my 2 year old was helping

[3/12/16, 10:26:07 AM] Weekend Testers Americas: Yay, start 'em young :D

[3/12/16, 10:26:24 AM] Heba Hosny: Yes, i want to pair with you Michael

[3/12/16, 10:26:30 AM] Trisha Chetani Agarwal: yes, i want to pair

[3/12/16, 10:26:36 AM] Weekend Testers Americas: Explore the app, kick the tires, play around with it, see what you can figure out and what confuses you.

[3/12/16, 10:26:44 AM] Weekend Testers Americas: log things you find interesting.

[3/12/16, 10:27:06 AM] Weekend Testers Americas: Gather questions as you explore.

[3/12/16, 10:27:44 AM] Weekend Testers Americas: We will start Open testing in three minutes and go to 11:30 a.m. Pacific (iow, about an hour).

[3/12/16, 10:28:04 AM] Weekend Testers Americas: Others feel free to pair off or do this on your own.

[3/12/16, 10:28:25 AM] Swetha M: I want to pair too

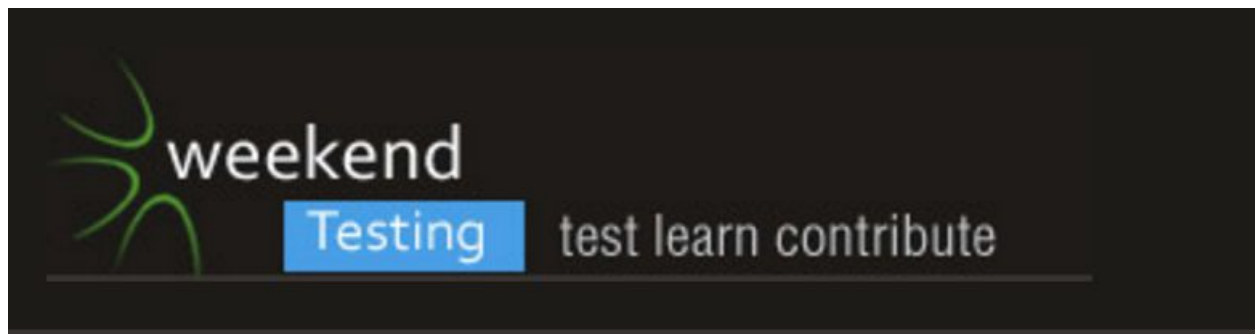
[3/12/16, 10:28:34 AM] Amy Brown: Here's an API that might be of interest to some:

<https://api.imgur.com/>

[3/12/16, 10:28:48 AM] Amy Brown: I'm going to see if ARC plays with that

[3/12/16, 10:28:53 AM] Weekend Testers Americas: If you start separate chat sessions, either make the transcripts available for me later to include in the Experience Report, or summarize your findings in the main chat.

WTA-70: API's and ARC REST Client



[3/12/16, 10:29:23 AM] Weekend Testers Americas: also, if you report interesting behavior in the app that might be a bug or issue, use #bug or #issue to lead off your statements.

[3/12/16, 10:29:27 AM] Carol Brands: ok so, I logged into Facebook, I opened Dev Tools by right-clicking and choosing Inspect. I went to Network, and the Headers tab, and grabbed a header that showed up after hovering over a friends name.

[3/12/16, 10:29:40 AM] Weekend Testers Americas: Weekend Testers Americas has renamed this conversation to "WTA-70: REST AND API With ARC (OPEN TESTING)"

[3/12/16, 10:30:02 AM] Carol Brands: I popped the URL into the ARC, but...I'm still just not sure what I'm looking at. What kinds of things do you usually look for after entering a request?

[3/12/16, 10:30:02 AM] Swetha M: quick question.

[3/12/16, 10:30:46 AM] Swetha M: why do we use this tool if chrome network tab already shows the headers

[3/12/16, 10:30:56 AM] Swetha M: what value is it adding

[3/12/16, 10:31:08 AM] Srinivas Kadiyala: Yes, same question - I don't understand what are the results i'm seeing from the tool..

[3/12/16, 10:31:11 AM] Amy Brown: @Carol: it helps if the API has some public documentation so beginners can get a sense of what expected results might be

[3/12/16, 10:31:26 AM] brendan connolly: it allows you to issue your own requests to the api

[3/12/16, 10:32:14 AM] brendan connolly: so when you are testing you can communicate directly with the api without going through a website

[3/12/16, 10:32:18 AM] Amy Brown: Public API and some decent documentation here: https://www.mediawiki.org/wiki/API:Main_page

[3/12/16, 10:32:35 AM] Swetha M: so we can interact with it say even without the browser and get responses

[3/12/16, 10:32:41 AM] Amy Brown: correct.

[3/12/16, 10:32:48 AM] Swetha M: ok thanks

[3/12/16, 10:32:51 AM] brendan connolly: exactly the tool lets you act like a browser

[3/12/16, 10:33:19 AM] Amy Brown: but responses will be in native JSON or SOAP: browsers wrap responses in other code

[3/12/16, 10:33:27 AM] brendan connolly: yes

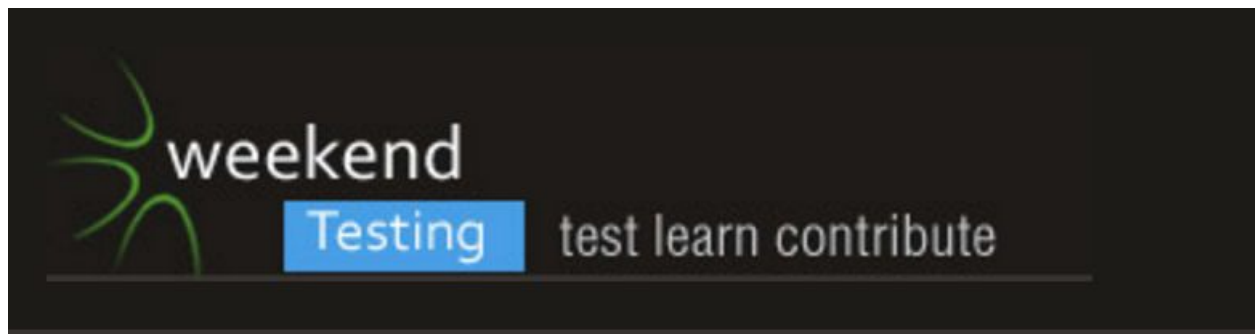
[3/12/16, 10:33:27 AM] Swetha M: where can I get the rest api supported by a given website

[3/12/16, 10:33:41 AM] brendan connolly: well browsers parse the response

[3/12/16, 10:34:54 AM] Carol Brands: ooh, I'm starting to put this together, grabbing the random URL was getting me a pile of information about what came back from that URL, but if you're actively testing a specific URL, you can use documentation as an oracle for what to expect and test against that, or you know, with experience gain other oracles

[3/12/16, 10:35:06 AM] Heba Hosny: And how to know if this is the page valid response ?

WTA-70: API's and ARC REST Client



[3/12/16, 10:35:42 AM] Heba Hosny: in websites, it's enough not to have an error page displayed :)

[3/12/16, 10:36:02 AM] brendan connolly: you use the http response codes for determining the general validity

[3/12/16, 10:36:12 AM] Amy Brown: Sometimes the "correct response" is an empty body with headers!

[3/12/16, 10:36:16 AM] brendan connolly: the data being returned is often more subjective

[3/12/16, 10:36:27 AM] Heba Hosny: I see

[3/12/16, 10:38:49 AM] Amy Brown: Request headers can be an interesting area to manipulate for different responses.

[3/12/16, 10:39:17 AM] Weekend Testers Americas: Swetha, you may want to programmatically check and confirm that you are getting the data you expect, and you may want to tweak the parameters on the fly.

[3/12/16, 10:39:37 AM] Weekend Testers Americas: Or experiment with payloads that are not defined in the Request URL.

[3/12/16, 10:40:02 AM] Weekend Testers Americas: You can use Chrome tools to do this, of course, but ARC let's you experiment with parameters and see what you get back.

[3/12/16, 10:43:02 AM] Amy Brown: Status codes are kind of a fun area to explore

[3/12/16, 10:43:10 AM] Amy Brown: Most GET requests will yield a 200 status code

[3/12/16, 10:43:35 AM] Amy Brown: unless you're not authenticated or authorized properly, which is when you SHOULD start getting 40* codes

[3/12/16, 10:44:12 AM] Swetha M: so the response we get how do we interpret it ? should we open that in a browser to see what will be displayed

[3/12/16, 10:44:50 AM] Hannah Mason: Cool! I sent a request using <https://citymapper.com/> to use my current location as a starting point for journey directions. The response I got was as expected, though the location was very slightly off (by two houses)

[3/12/16, 10:46:56 AM] Srinivas Kadiyala: I was trying out: <https://twitter.com/followers>

[3/12/16, 10:47:08 AM] Srinivas Kadiyala: I expected, it would give twitter followers

[3/12/16, 10:47:27 AM] Srinivas Kadiyala: But it gave different. which I could not understand.

[3/12/16, 10:47:59 AM] Amy Brown: @Srinivas what was the response?

[3/12/16, 10:48:16 AM] Srinivas Kadiyala: It was displaying html source code

[3/12/16, 10:48:31 AM] Srinivas Kadiyala: of Followers page

[3/12/16, 10:48:36 AM] Amy Brown: What was the status code in the response header?

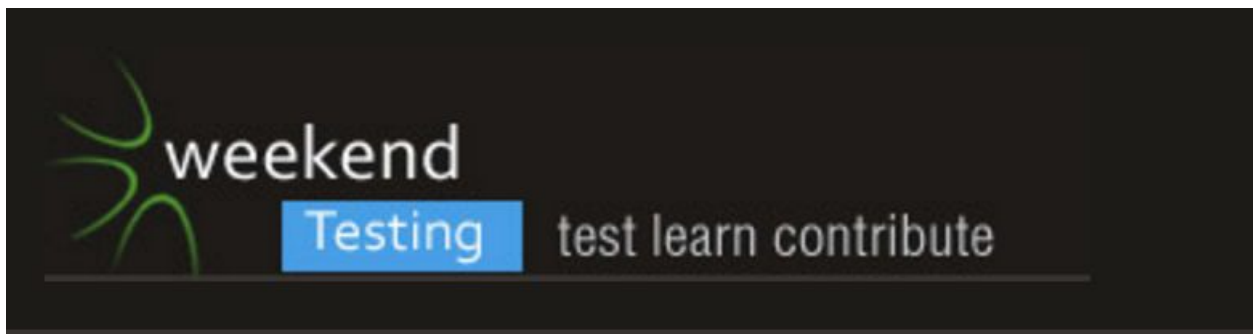
[3/12/16, 10:48:46 AM] Srinivas Kadiyala: 200 OK

[3/12/16, 10:48:53 AM] Srinivas Kadiyala: I used "GET" Function

[3/12/16, 10:49:15 AM] Srinivas Kadiyala: If I use "POST" , I got 402 OK

[3/12/16, 10:49:53 AM] Weekend Testers Americas: Quick check in from WTA: Is everybody engaged on a site or example?

WTA-70: API's and ARC REST Client



[3/12/16, 10:51:04 AM] Srinivas Kadiyala: Trying different examples on sites

[3/12/16, 10:51:18 AM] Swetha M: I have a request. can all of us try a single website and interpret the responses we get as a tutorial.

[3/12/16, 10:51:40 AM] Swetha M: I am lost while trying to interpret the html code in the response

[3/12/16, 10:51:57 AM] Swetha M: if we can walkthrough one site that would help

[3/12/16, 10:53:25 AM] Shweta Daiv: Yes, that would be helpful

[3/12/16, 10:53:27 AM] Amy Brown: @Swetha: I can work with you and anyone else interested on a site.

[3/12/16, 10:54:53 AM] Swetha M: Thanks Amy. please suggest what website we can try

[3/12/16, 10:55:00 AM] Hannah Mason: @Amy that sounds good! i'm having fun playing around but i don't really have a direction

[3/12/16, 10:55:26 AM] Amy Brown: @Swetha @Hannah hold on, Srinivas and I are in a different chat, will send invites

[3/12/16, 10:56:01 AM] brendan connolly: can you add me too?

[3/12/16, 10:56:39 AM] Srinivas Kadiyala: adding to the group

[3/12/16, 10:56:43 AM] ami bhatt: Please add me too

[3/12/16, 10:56:50 AM] Srinivas Kadiyala: pls accept my request

[3/12/16, 10:56:56 AM] Weekend Testers Americas: If anyone is "adrift" please send me a request. I can show you some of what Socialtext does with its API.

[3/12/16, 10:57:17 AM] Weekend Testers Americas: I have Trisha and Heeba currently, I can add one or two more :).

[3/12/16, 10:57:27 AM] Carol Brands: OK so, I'm looking at the twitter API, and for updates I'm seeing this statement: Any attempt that would result in duplication will be blocked, resulting in a 403 error.

[3/12/16, 10:57:27 AM] vjkumran: Add me too

[3/12/16, 10:57:37 AM] Mark Halvorson: @WTA I'll take you up on that!

[3/12/16, 10:57:42 AM] Shweta Daiv: Add me too

[3/12/16, 10:57:48 AM] Swetha M: please add me too

[3/12/16, 10:57:55 AM] Carol Brands: So, then, this tool would be good for testing that so I could send two updates in a row, then confirm that the second one returned the expected 403 error?

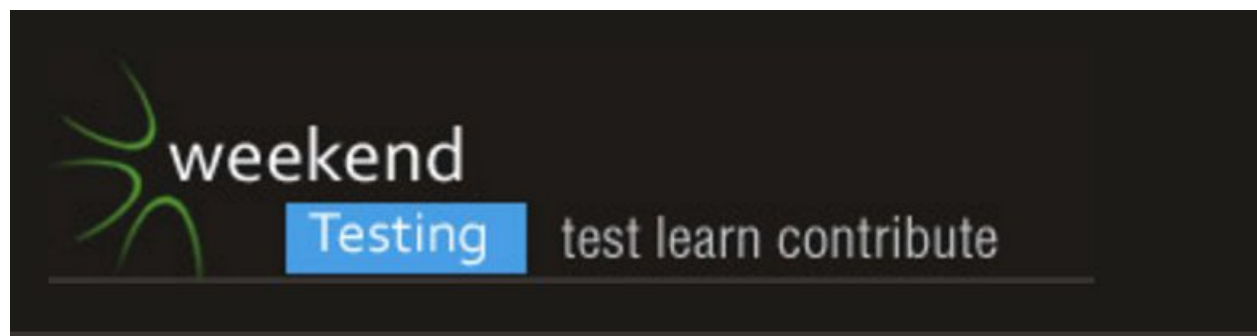
[3/12/16, 11:11:49 AM] Weekend Testers Americas: Weekend Testers Americas added Amir Khan to this conversation

[3/12/16, 11:12:04 AM] Weekend Testers Americas: we have a late arrival :). say Hi Amir, and ask to join a group.

[3/12/16, 11:12:36 AM] Heba Hosny: Hi Amir :)

[3/12/16, 11:15:12 AM] ami bhatt: Hi :)

WTA-70: API's and ARC REST Client



[3/12/16, 11:26:22 AM] Amir Khan: Hi every one I was just reading the conversation to get the update so I can be on the same page

[3/12/16, 11:27:04 AM] Amir Khan: This is amir from Pakistan 10 year exp in software testing , my twitter handlers is @meetamir

[3/12/16, 11:29:10 AM] guest:amir_96db98cd (Guest): guest:amir_96db98cd (Guest) joined the conversation

[3/12/16, 11:33:13 AM] Weekend Testers Americas: OK, everyone, let's regroup.

[3/12/16, 11:33:23 AM] Weekend Testers Americas: Give me sign you are here :) (y)

[3/12/16, 11:33:41 AM] brendan connolly: (y)

[3/12/16, 11:33:43 AM] Heba Hosny: (y)

[3/12/16, 11:33:43 AM] Amy Brown: here

[3/12/16, 11:33:51 AM] Sam Chughtai: Hi

[3/12/16, 11:33:58 AM] Trisha Chetani Agarwal: (y)

[3/12/16, 11:34:03 AM] Mark Halvorson: here

[3/12/16, 11:34:16 AM] Swetha M: here

[3/12/16, 11:34:16 AM] Shweta Daiv: (y)

[3/12/16, 11:34:21 AM] Amir Khan: here

[3/12/16, 11:34:54 AM] Weekend Testers Americas: Weekend Testers Americas has renamed this conversation to "WTA-70: REST AND API With ARC (DISCUSSION)"

[3/12/16, 11:35:08 AM] JeanAnn Harrison: (y)

[3/12/16, 11:35:26 AM] JeanAnn Harrison: Hahaha I crashed the tool :)

[3/12/16, 11:35:34 AM] Amy Brown: excellent!

[3/12/16, 11:35:36 AM] Hannah Mason: (y)

[3/12/16, 11:35:38 AM] Weekend Testers Americas: OK, so as I'm sure many of you discovered, ARC has a few cool things, but it's like many other tools that is severely limited if you have limited experience with working with API's in the first place ;).

[3/12/16, 11:35:55 AM] Trisha Chetani Agarwal: Intresting to hear Jean Ann. Please share details

[3/12/16, 11:35:55 AM] Amir Khan: Played like a kid :)

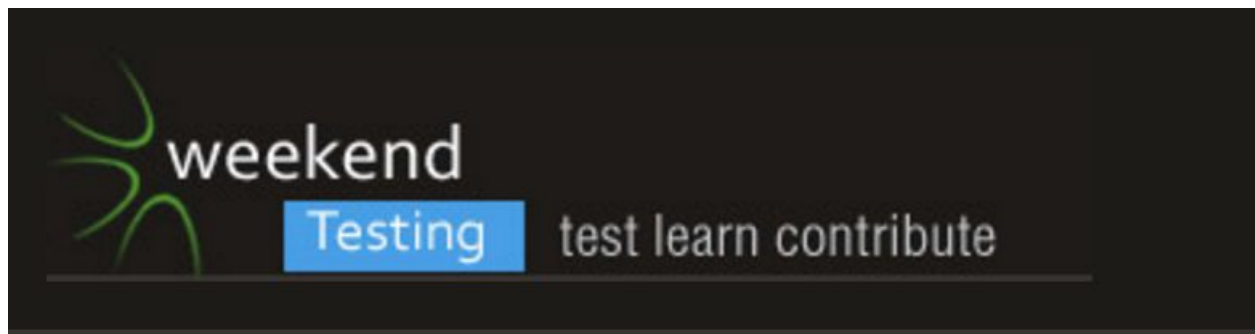
[3/12/16, 11:36:24 AM] Weekend Testers Americas: It can help you explore and get a feel for what's possible, but to really get a sense of it, you need to pick a site, find its API map, and experiment.

[3/12/16, 11:38:14 AM] Weekend Testers Americas: as an example, I shared the map that Socialtext uses for its API:

[3/12/16, 11:38:15 AM] Weekend Testers Americas:
https://www.socialtext.net/st-rest-docs/rest_api_resources_map

[3/12/16, 11:38:25 AM] Weekend Testers Americas: this is public, so no issues with posting it :).

WTA-70: API's and ARC REST Client



[3/12/16, 11:38:48 AM] JeanAnn Harrison: Too much typing involved and you all are going too fast. I will write up something and share afterwards.

[3/12/16, 11:39:02 AM] JeanAnn Harrison: But used from nfl.com

[3/12/16, 11:39:07 AM] Weekend Testers Americas: but this gives an indication as to how you would look for certain pieces of information, and each link takes you to a unique page explaining what that call does.

[3/12/16, 11:39:24 AM] Trisha Chetani Agarwal: sure

[3/12/16, 11:40:27 AM] Weekend Testers Americas: One thing we found useful was the history tab, which stored queries we had used previously.

[3/12/16, 11:40:35 AM] Weekend Testers Americas: Anything else from other groups?

[3/12/16, 11:40:43 AM] Weekend Testers Americas: I'll hang back and let others type ;).

[3/12/16, 11:40:52 AM] Trisha Chetani Agarwal: Encoding and decoding of Url

[3/12/16, 11:41:29 AM] brendan connolly: I like being able to save requests

[3/12/16, 11:41:40 AM] JeanAnn Harrison: I think that if the loading of a particular URL takes too long, the tool will crash at least what I saw.

[3/12/16, 11:41:53 AM] Srinivas Kadiyala: I observed, if we type invalid base url - it did not give any error response code.

[3/12/16, 11:42:01 AM] Trisha Chetani Agarwal: save +1

[3/12/16, 11:43:50 AM] brendan connolly: its nice because you can import and export requests, so you could share with your team

[3/12/16, 11:43:55 AM] Heba Hosny: but how to use it to find the whole site API map?

[3/12/16, 11:44:15 AM] Heba Hosny: some times, no documentation is provided for it

[3/12/16, 11:44:29 AM] Amy Brown: Some APIs have "discovery" routes that will give you the whole map or subtrees of it

[3/12/16, 11:44:43 AM] Trisha Chetani Agarwal: I checked there is no status fro Invalid Url

[3/12/16, 11:44:55 AM] Amy Brown: but with no documentation, you wouldn't know that unless you're working for the company

[3/12/16, 11:45:05 AM] Weekend Testers Americas: If a site won't expose its API or give you a way to get to that info, seems a talk with the company in question might be in order.

[3/12/16, 11:45:06 AM] Trisha Chetani Agarwal: +1

[3/12/16, 11:45:16 AM] Amy Brown: +2 :-)

[3/12/16, 11:45:24 AM] brendan connolly: @wta if its meant to be publicly consumed

[3/12/16, 11:45:28 AM] Weekend Testers Americas: An API isn't very useful if there's no documentation about where it is, how its mapped and how to use it, IMO ;).

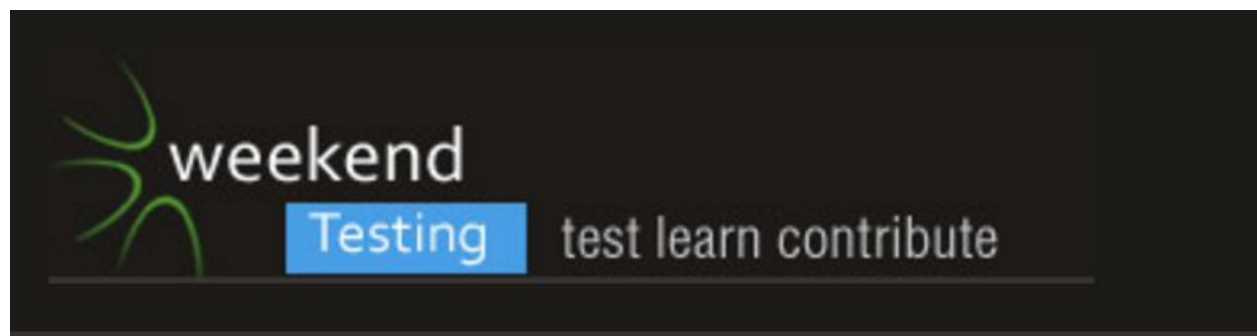
[3/12/16, 11:45:41 AM] Weekend Testers Americas: brendan, that's a good point :).

[3/12/16, 11:45:51 AM] Trisha Chetani Agarwal: API is meant to be used by public

[3/12/16, 11:45:59 AM] Amy Brown: not necessarily

[3/12/16, 11:46:01 AM] Trisha Chetani Agarwal: that why they expose there

WTA-70: API's and ARC REST Client



[3/12/16, 11:46:02 AM] brendan connolly: thats not necessarily true

[3/12/16, 11:46:05 AM] Trisha Chetani Agarwal: okay

[3/12/16, 11:46:22 AM] Weekend Testers Americas: but even if it's not meant to be publicly consumed, you still need some way to figure out how to access it, likely from the development group creating it.

[3/12/16, 11:46:36 AM] Trisha Chetani Agarwal: +1

[3/12/16, 11:46:50 AM] Trisha Chetani Agarwal: i agree or else how do i know about the API

[3/12/16, 11:46:57 AM] Trisha Chetani Agarwal: if i wanted to use

[3/12/16, 11:47:14 AM] Weekend Testers Americas: If it's a private API for stuff happening internally known only to a few, you still would have to have a chat with someone to give you the "keys to the kingdom".

[3/12/16, 11:47:15 AM] Srinivas Kadiyala: I work on erp systems, most of the times it is interacted with api calls. but no documentation

[3/12/16, 11:47:23 AM] Heba Hosny: its parameters, how to use those, mandatory or optional, request type, etc.

[3/12/16, 11:47:26 AM] Srinivas Kadiyala: how do we know, what api to be used for testing

[3/12/16, 11:47:30 AM] Amy Brown: Srinivas wow.

[3/12/16, 11:47:49 AM] Weekend Testers Americas: Srinivas, in that case, the only way would be to actually talk to the developers and have them give you a primer.

[3/12/16, 11:47:49 AM] Amy Brown: no docs, that's tough.

[3/12/16, 11:47:52 AM] Trisha Chetani Agarwal: +1

[3/12/16, 11:48:08 AM] Weekend Testers Americas: Now, it's entirely possible that the API is easily discoverable based on some parameters.

[3/12/16, 11:48:17 AM] brendan connolly: Srinivas, ar you testing the apis?

[3/12/16, 11:48:18 AM] Srinivas Kadiyala: earlier/now we are not allowed to test api testing using postman.

[3/12/16, 11:48:26 AM] Srinivas Kadiyala: as they feel - we make mistakes

[3/12/16, 11:48:37 AM] Trisha Chetani Agarwal: example ?

[3/12/16, 11:48:50 AM] Amy Brown: some APIs have routes like domain.com/api/rest that return the tree as JSON

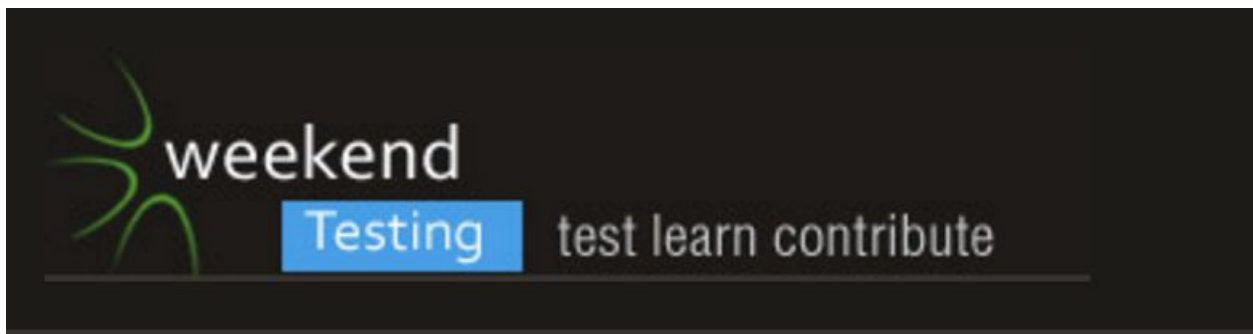
[3/12/16, 11:49:00 AM] Weekend Testers Americas: Earlier I posted before the session started a way to look for API calls.

[3/12/16, 11:49:24 AM] Weekend Testers Americas: By loading Chrome developer tools and looking at the parameters in the Network requests.

[3/12/16, 11:49:36 AM] Srinivas Kadiyala: testing the api calls to see we get return response. and the same matches in the code. response

[3/12/16, 11:50:19 AM] Weekend Testers Americas: If you see calls being made and the format utilizes a number of flags, especially with an accept=application/json tag, that's an API call.

WTA-70: API's and ARC REST Client



[3/12/16, 11:50:37 AM] Weekend Testers Americas: Study the format of the request, see how they differ from other requests in the same set of interactions.

[3/12/16, 11:51:13 AM] Weekend Testers Americas: If you notice that, where those accept calls are listed, the format is different, you might be able to reverse engineer the structure of the API.

[3/12/16, 11:51:23 AM] Weekend Testers Americas: It would be tedious, but you could do it ;).

[3/12/16, 11:52:18 AM] Weekend Testers Americas: In any event, I hope you all had a good time playing with ARC today, and perhaps it's something you can use in your everyday testing, and perhaps delve a little more into API calls in general.

[3/12/16, 11:52:34 AM] Weekend Testers Americas: Before we close, I want to make a special Public Service Announcement.

[3/12/16, 11:52:34 AM] Trisha Chetani Agarwal: yes,

[3/12/16, 11:52:44 AM] Trisha Chetani Agarwal: another example a think of

[3/12/16, 11:52:47 AM] Weekend Testers Americas: Weekend Testers Americas has renamed this conversation to "WTA-70: REST AND API With ARC (PSA)"

[3/12/16, 11:52:58 AM] Weekend Testers Americas: Sorry, go ahead Trisha.

[3/12/16, 11:53:10 AM] Weekend Testers Americas: Weekend Testers Americas has renamed this conversation to "WTA-70: REST AND API With ARC (DISCUSSION)"

[3/12/16, 11:53:21 AM] Trisha Chetani Agarwal: no sorry to intreupt

[3/12/16, 11:53:33 AM] Weekend Testers Americas: please, go ahead ;).

[3/12/16, 11:53:52 AM] Trisha Chetani Agarwal: On 3/12/16, at 11:51 AM, Weekend Testers Americas wrote:

> If you notice that, where those accept calls are listed, the format is different, you might be able to reverse engineer the structure of the API.

Nice example to think of while doing testing

[3/12/16, 11:54:28 AM] Trisha Chetani Agarwal: we didnt dicussed this and thought while doing testing

[3/12/16, 11:54:43 AM] Weekend Testers Americas: thx. hopefully you don't have to rely on such an approach, but if developers aren't forthcoming, you certainly can approach it from this angle.

[3/12/16, 11:54:45 AM] Srinivas Kadiyala: Any reference books or links to learn "more" ?

[3/12/16, 11:54:54 AM] Weekend Testers Americas: I have a few.

[3/12/16, 11:55:06 AM] Weekend Testers Americas:

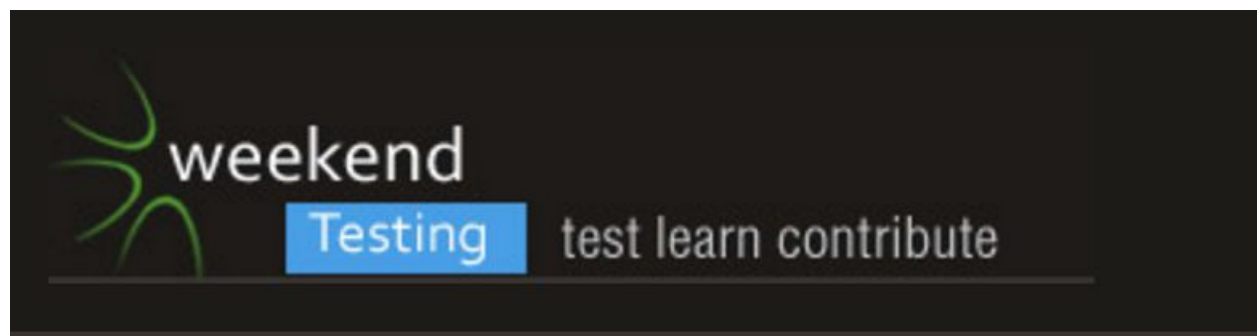
<http://stackoverflow.com/questions/20591770/how-to-test-rest-api-using-chromes-extension-advanced-rest-client>

[3/12/16, 11:55:07 AM] Trisha Chetani Agarwal: please share while ending the session

[3/12/16, 11:55:18 AM] Weekend Testers Americas:

https://www.youtube.com/watch?v=NHL_eUAHHLI

WTA-70: API's and ARC REST Client



[3/12/16, 11:55:40 AM] Weekend Testers Americas:

<http://blog.purestorage.com/try-the-rest-api-using-a-rest-client/>

[3/12/16, 11:55:54 AM] Weekend Testers Americas:

<https://blog.code42.com/api-cool-tools-part-2-advanced-rest-client-extension-for-google-chrome/>

[3/12/16, 11:56:02 AM] Weekend Testers Americas:

<http://blog.bittercoder.com/2012/09/14/demonstrating-a-rest-api/>

[3/12/16, 11:56:16 AM] Weekend Testers Americas:

<http://superuser.com/questions/571317/chromes-advanced-rest-client-setting-a-get-request-to-accept-application-json>

[3/12/16, 11:56:47 AM] Weekend Testers Americas: A small sample, but hopefully enough to get you thinking about other directions you might want to explore.

[3/12/16, 11:56:58 AM] Trisha Chetani Agarwal: Thank you for sharing

[3/12/16, 11:57:14 AM] Srinivas Kadiyala: I want to learn more on "how to read the responses easily" and "other options - PUT / PATCH etc"

[3/12/16, 11:57:31 AM] Weekend Testers Americas: Srinivas, great segue :)...

[3/12/16, 11:57:39 AM] Weekend Testers Americas: Weekend Testers Americas has renamed this conversation to "WTA-70: REST AND API With ARC (PSA)"

[3/12/16, 11:58:09 AM] Trisha Chetani Agarwal: On 3/12/16, at 11:01 AM, Weekend Testers Americas wrote:

> Each of the commands serves a specific purpose.

GET is as it sounds, you just want to get the resource.

POST means you want to write something to the system and store it.

PUT means you want to update something you posted previously.

DELETE is when you want to remove something you posted.

[3/12/16, 11:58:18 AM] Weekend Testers Americas: One of the ways these sessions happen is that the facilitators think of something that might be interesting, and we propose a topic.

[3/12/16, 11:58:33 AM] Weekend Testers Americas: Usually, that proposal just goes through and people come out to sessions.

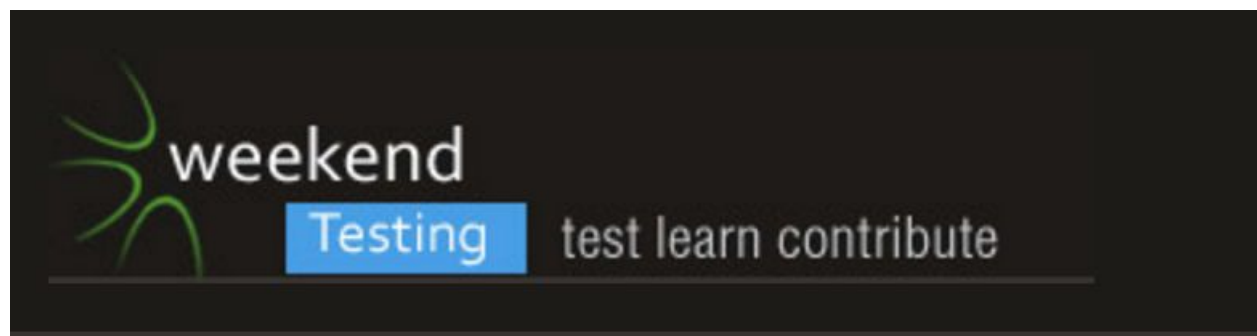
[3/12/16, 11:58:51 AM] Weekend Testers Americas: Going forward, we'd like to include you, our participants in this process.

[3/12/16, 11:59:30 AM] Weekend Testers Americas: I'm going to set up a page with a Call For WT Sessions title, and I would like to encourage you all to leave comments and propose topics, tools or areas you would like to have us cover.

[3/12/16, 11:59:57 AM] Srinivas Kadiyala: Hope it can be google forms.

[3/12/16, 12:00:02 PM] Trisha Chetani Agarwal: +1 Interesting .

WTA-70: API's and ARC REST Client



[3/12/16, 12:00:08 PM] Weekend Testers Americas: If the idea of having a “Master Class” on a particular tool interests you, we could probably make that happen with enough preparation and confirmation people would be interested.

[3/12/16, 12:00:29 PM] Weekend Testers Americas: Also, it would give our participants a chance to weigh in on the topics and sessions they’d like to see run here.

[3/12/16, 12:01:11 PM] Weekend Testers Americas: Granted, it may be an area one of us (me, JeanAnn, Justin or Alber) may not be super familiar, but we would be happy to work with you hand have you co-facilitate that session so that we could make it effective.

[3/12/16, 12:01:31 PM] Weekend Testers Americas: In short, we want to know what matters to you, and build sessions that you would want to participate in.

[3/12/16, 12:01:38 PM] Weekend Testers Americas: More to come stay tuned.

[3/12/16, 12:01:41 PM] Weekend Testers Americas: and with that...

[3/12/16, 12:01:50 PM] Weekend Testers Americas: Weekend Testers Americas has renamed this conversation to “WTA-70: REST AND API With ARC (END)”

[3/12/16, 12:02:02 PM] Weekend Testers Americas: Thank you for joining us for another Weekend Testing session.

[3/12/16, 12:02:26 PM] JeanAnn Harrison: Sorry I couldn't follow and really wanted to but I got lost early on and couldn't catch up.

[3/12/16, 12:02:34 PM] Trisha Chetani Agarwal: Thank you for facilitating the session :)

[3/12/16, 12:02:41 PM] Heba Hosny: Thank you all, and thanks Michael for facilitating the session, it was so useful :)

[3/12/16, 12:02:50 PM] brendan connolly: Good stuff, thanks!

[3/12/16, 12:02:52 PM] Weekend Testers Americas: We are glad you chose to spend some precious Saturday/Sunday time with us today, and we hope this session was interesting, or at least gave you some new things to think about :).

[3/12/16, 12:02:52 PM] Trisha Chetani Agarwal: it really helpful and exciting to learn things

[3/12/16, 12:02:57 PM] Amy Brown: Thank you Michael and everyone who participated!

[3/12/16, 12:03:01 PM] Swetha M: thank you

[3/12/16, 12:03:02 PM] Mark Halvorson: thanks for facilitating!

[3/12/16, 12:03:03 PM] Heba Hosny: And yes, some ideas are in mind about next sessions

[3/12/16, 12:03:06 PM] Swetha M: was helpful

[3/12/16, 12:03:26 PM] Weekend Testers Americas: Thanks, and have a great rest of the weekend, everyone :)!!!

WTA-70: API's and ARC REST Client