3.x - URL Paths and Web Services

Let's go into a little more detail regarding the information introduced in the URL Navigation article. It is important to understand how the URL (and the individual segments within the URL) translate into specific web service routines within the SRP HTTP Framework. Below is the same URL graphic that we have already seen:

https://www.myapplication.com/api/customers/5678/phone/work

Let's use this sample URL and break it down so we can properly understand how this fits within the SRP HTTP Framework processing flow:

This is the communication protocol. It will either be HTTP or HTTPS. While this information is available to the rare that your API code will use it. Www. myapplic ation. com This is the domain (aka Home URL). While this information is available to the SRP HTTP Framework, it is rare it. However, this normally should match the value in the Home URL configuration so your responses can include client can use to navigate further. This is the API URL. Technically, this isn't a complete URL. The complete URL would be a combination of the the API URL (e.g., https://www.myapplication.com/api). This defines where the API entry point begin not the same as the Home URL so that users can enter into the website (e.g., https://www.myapplicatiwith a home page rather than immediately invoke API logic. Normally, users never enter the API URL. This is via JavaScript or some other server-side scripting logic (PHP, ASP.Net, or even a proxy server routing requester into separate API server.) Regardless of what the API URL is, when this is the address, the request will pass through the HTTP_MCP or point web service. The entry point will always be executed regardless of the full URL used for the request. This is the first, and most important, step of walking the URL path. The entry point is responsible for auth responsible for allowing the rest of the URL path to be processed. This segment is associated with the customer (or customers) resource type. Remember, RESTful URLs are to (resources). Any segment that is associated with a resource type will normally be its own web service and have procedure designed to handle this resource. The SRP HTTP Framework is designed to automatically assume named like this: HTTP_ <urlsegment>_Services. For this example, the web service routine would be named ices. Therefore, any web service you create should follow this naming pattern. If you already know the named the analyse of the path and the procedure designed to handle this resource.</urlsegment>	·
it. However, this normally should match the value in the Home URL configuration so your responses can include ation. It is is the API URL. Technically, this isn't a complete URL. The complete URL would be a combination of the the API URL (e.g., https://www.myapplication.com/api). This defines where the API entry point begin not the same as the Home URL so that users can enter into the website (e.g., https://www.myapplicati with a home page rather than immediately invoke API logic. Normally, users never enter the API URL. This is via JavaScript or some other server-side scripting logic (PHP, ASP.Net, or even a proxy server routing request server into separate API server.) Regardless of what the API URL is, when this is the address, the request will pass through the HTTP_MCP or point web service. The entry point will always be executed regardless of the full URL used for the request. This is the first, and most important, step of walking the URL path. The entry point is responsible for authorized responsible for allowing the rest of the URL path to be processed. It is segment is associated with the customer (or customers) resource type. Remember, RESTful URLs are to (resources). Any segment that is associated with a resource type will normally be its own web service and have procedure designed to handle this resource. The SRP HTTP Framework is designed to automatically assume named like this: http. Therefore, any web service you create should follow this naming pattern. If you already know the name of the procedure designed to a understand the name of the procedure designed to a understand the name of the procedure designed to a understand the name of the procedure designed to a understand the name of the procedure designed to a understand the name of the procedure designed to a understand the name of the procedure designed to a understand the name of the procedure designed to handle this resource. The SRP HTTP framework is designed to a understand the name of the procedure designed to handle this resour	that your API code will use
the API URL (e.g., https://www.myapplication.com/api). This defines where the API entry point begin not the same as the Home URL so that users can enter into the website (e.g., https://www.myapplicati with a home page rather than immediately invoke API logic. Normally, users never enter the API URL. This is via JavaScript or some other server-side scripting logic (PHP, ASP.Net, or even a proxy server routing request server into separate API server.) Regardless of what the API URL is, when this is the address, the request will pass through the HTTP_MCP compoint web service. The entry point will always be executed regardless of the full URL used for the request. This is the first, and most important, step of walking the URL path. The entry point is responsible for authorized responsible for allowing the rest of the URL path to be processed. /custome rs /custome rs /custome rs This segment is associated with the customer (or customers) resource type. Remember, RESTful URLs are to (resources). Any segment that is associated with a resource type will normally be its own web service and have procedure designed to handle this resource. The SRP HTTP Framework is designed to automatically assume named like this: HTTP_ <urlsegment>_Services. For this example, the web service routine would be named ices. Therefore, any web service you create should follow this naming pattern. If you already know the named ices.</urlsegment>	
This is the first, and most important, step of walking the URL path. The entry point is responsible for authoresponsible for allowing the rest of the URL path to be processed. Custome This segment is associated with the customer (or customers) resource type. Remember, RESTful URLs are to (resources). Any segment that is associated with a resource type will normally be its own web service and have procedure designed to handle this resource. The SRP HTTP Framework is designed to automatically assume named like this: HTTP_ <urlsegment>_Services. For this example, the web service routine would be named ices. Therefore, any web service you create should follow this naming pattern. If you already know the named.</urlsegment>	is. Normally, the API URL is on.com) and be greeted handled behind the scenes
responsible for allowing the rest of the URL path to be processed. /custome rs This segment is associated with the customer (or customers) resource type. Remember, RESTful URLs are to (resources). Any segment that is associated with a resource type will normally be its own web service and have procedure designed to handle this resource. The SRP HTTP Framework is designed to automatically assume named like this: HTTP_ <urlsegment>_Services. For this example, the web service routine would be named ices. Therefore, any web service you create should follow this naming pattern. If you already know the named.</urlsegment>	ntroller and into the entry
(resources). Any segment that is associated with a resource type will normally be its own web service and have procedure designed to handle this resource. The SRP HTTP Framework is designed to automatically assume named like this: HTTP_ <urlsegment>_Services. For this example, the web service routine would be named ices. Therefore, any web service you create should follow this naming pattern. If you already know the named ices.</urlsegment>	entication and it is
	e its own BASIC+ stored that any web service will be
intend to use (e.g., /invoices, /vendors, /parts, etc.), then you may want to create a basic web service ces_Services, HTTP_Vendors_Services, HTTP_Parts_Services, etc.). Using one of the sample servincluded (HTTP_Users_Services or HTTP_Contacts_Services) can help you get a web service working fairly web service is tied to a single database table.	shell first (e.g., HTTP_Invoice routines that are
Intuitively we see that this segment represents a specific customer of interest. Because 5678 represents a specific resource type, there will not be a specific web service to handle this segment.	ecific resource, rather than a
Therefore, it is the responsibility of the preceding web service (HTTP_Customers_Services in this ex the RemainingURL argument to see if there is a customer ID being passed in. If there is one, then the we retrieve this resource and prepare a response containing details for this customer. If there isn't one, then the wassume that all of the customers (typically referred to as a collection) are being requested. This does not necedetail of every customer needs to be returned. The normal practice is to return a list of customer IDs, names, a access each specific customer.	eb service will attempt to yeb service will normally ssarily mean that every
This segment is associated with the <i>phone</i> (number) for the customer. The previous segments give us the brounder #5678. Now, <i>phone</i> is certainly a type of resource. That is to say, there are different types of phones (work, far reasonable for this segment to be managed by its own web service (e.g., http://mttp.phone_Services). However, implemented this way. Since <i>phone</i> is clearly related to the customer, this could also be handled by the http://mttp.phone_Services). However, this could also be handled by the http://mttp.phone_services). However, and http://mttp.phone.services). However, and	

1. HTTP Request > OECGI > HTTP_MCP > HTTP_Entry_Point_Services > HTTP_Customers_Services > HTTP_Phone_Services > HTTP Response

- or -

2. HTTP Request > OECGI > HTTP_MCP > HTTP_Entry_Point_Services > HTTP_Customers_Services > HTTP Response

In the first case, HTTP_Customers_Services is only responsible for validating the customer ID, and then it passes the API request through to HTTP_Customers_Services validates the customer ID and it handles the phone number, which is the expected response. If there are no other segments that will be supported past this end point, then it may prove to be easier to use the second case. This keeps all customer related data managed under the same web service routine.