

Project 3: Use a lib (jQuery) to access and digest a RESTful service

Working with a library...

In your future career as a web developer, you will be asked to create many different kinds of user experiences. Quite often, you don't have the time to create everything by hand, so knowing how to use pre-existing code will allow you to get your work done on time and be the coding hero.

jQuery is quickly becoming the de-facto standard for JavaScript. Created by RIT student John Resig while he was here, it is now being used by numerous companies and is in Microsoft's Visual Studio (so will be of use in all .NET applications). The core of jQuery is solid, but its popularity can be attributed to the ease and number of plug-ins available.

What you will be doing for me is NOT simple. You will be getting information from an existing RESTful data source (documentation on the data source will be forthcoming). You will be required to create search functionality that will lead to a single organization. Once you have the organizations id, you will display the multiple data sources it offers (vague – we will be going over it more in class). I will also expect you extend the basic jQuery with at least 3 plug-ins that add functionality to your site.

Requirements

- Write search functionality to obtain a specific organization, once that is obtained you will ask the RESTful service for the pertinent data
 - all functionality is handled by jQuery
 - Dynamic creation, animation, form validation, browser detection and redirection – all done the 'jQuery' way.
 - The WSDL (Web Application Description Language (XML)) for the services is available at:
<http://simon.ist.rit.edu:8080/Services/resources/application.wadl>
- Professional graphics
- Use of AJAX to pull in your data (from XML supplied from the RESTful service) using a proxy server (I will provide)
- The use of at least 3 plug-ins that extend jQuery that add to your project. (put some thought into it – have the plugins augment your project!)
- You will provide a map interface using a google maps in the 'Locations' tab (NOT included in the 3 plugins above) – will officially make this application a mashup!
- Include comments in the code to clearly explain functionality
- When done, zip up the whole thing and turn it in ALONG with a ReadMe file that includes anything you think is above and beyond and a **URL** of where the working file is!
- **DUE DATE: Tuesday, November 13th @ 2:30pm (End of our final time - I MUST get them graded in 48 hours – so NO LATES)**

Grading

If you complete all of the above you will receive a B... A good project (worthy of a B) will have all required elements, implemented correctly and with attention to detail. An excellent project (worthy of an A) will have everything a B project has, plus something extra - evidence that you intend to excel. Perhaps it explores an area we didn't cover in detail in class, or would merit me recommending you to a client who needed similar work done on a multimedia project.

To do better...

- Level of complexity
- Write your own useful plug-in for jQuery!

*PS - be careful - go for the "B" first and get it working... Make sure you have something that **WORKS** to hand in...*

Further 536 Project 3 directions:

Create a search page: (doesn't need to look like this, but must have this functionality!)

Search Criteria

Organization Type

Organization Name *can be partial - "vol" for "Volunteer"

State

County

ZIP Code

So when it is searched, find some way to show the results:

Search the Directory

Show Search Directions

Search Criteria

Organization Type

Organization Name *can be partial - "vol" for "Volunteer"

State

County

ZIP Code

Results: (1 total found)

Type	Name	City	Zip	County	State
Hospital	Some Hospital	West Lafayette	47906	Tippecanoe	IN

Or:

Search the *Directory*

[Show Search Directions](#) [Show Search Criteria](#)

Results: (1 total found)

Type	Name	City	Zip	County	State
Hospital	Some Hospital	Pittsford	14534	Monroe	NY

What if there are no results?

Search the *Directory*

[Show Search Directions](#)

Search Criteria

Organization Type

Organization Name *can be partial - "vol" for "Volunteer"

State Adams

County

ZIP Code

[Show Results](#)

[Reset Form](#)

Results:

No data matches for: Emergency Shelter > State: NY > City: Adams

After the user finds the organization they want (in this case, clicking on the Name of the found organization), you'll need to show this organizations information. I used a lightbox effect and built in each section of information in a tab form (when clicking on each tab, I decided to load a different html fragment – so Locations is a different page then General, but you don't have to do that).

*NOTE: When the user searches on Org Type: Physicians, you have to make a different table because you are getting different data back!

Start by showing the General information for the organization:

Some Hospital [close]

- [General](#)
- [Locations](#)
- [Treatment](#)
- [Services-Training](#)
- [Facilities](#)
- [Physicians](#)
- [People](#)

General Information

Name: Some Hospital
 Website: <http://www.rit.edu>
 Email: sfw@kj.sdfz
 Description: Something cool here about the hospital
 Number of Members: 33
 Number of calls last year: 3001

Showing the Locations information, you will discover that there can be many locations for a specific organization. You will have to find a way to display the different data in a logical way (I created a dropdown menu).

Some Hospital [close]

- [General](#)
- [Locations](#)
- [Treatment](#)
- [Services-Training](#)
- [Facilities](#)
- [Physicians](#)
- [People](#)

Location Information

Location:main

Type:	main
Address:	610 Cumberland ave
City:	West Lafayette
State:	IN
County:	Tippecanoe
Zip:	47906
Phone:	123-123-1233
TTYPhone:	
Fax:	
Latitude:	40.460395
Longitude:	-86.907416

A Google map showing the location of Wabash Valley Hospital. The map includes labels for W 350 N, Wabash Valley Hospital, Sagamore Pkwy W, and various local streets like Crawford St, Linnage St, Hemlock St, and Yeager Rd. A marker indicates the exact location of the hospital building.

Map Satellite Hybrid Terrain

POWERED BY Google 2000 ft 500 m Map data ©2013 Google - Terms of Use

Some Hospital [close]

- [General](#)
- [Locations](#)
- [Treatment](#)
- [Services-Training](#)
- [Facilities](#)
- [Physicians](#)
- [People](#)

Location Information

Location:main

Location:main
Location:branch
Location:mailing
Location:mailing
Location:branch
Location:main

City: West Lafayette
State: IN
County: Tippecanoe
Zip: 47906
Phone: 123-123-1233
TTYPhone:
Fax:
Latitude: 40.460395
Longitude: -86.907418

A Google map showing the location of the hospital. The map is centered on Cumberland Ave and shows surrounding streets like W 350 N, S 350 N, E 350 N, and S 350 S. Other landmarks include the Webash Valley Hospital, Sagamore Pkwy W, and N River Rd. A pin marks the location on Cumberland Ave. The map includes a scale bar (2000 ft/500 m) and a compass rose.

Some Hospital [close]

- [General](#)
- [Locations](#)
- [Treatment](#)
- [Services-Training](#)
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- [Physicians](#)
- [People](#)

Location Information

Location:branch

Type: branch
Address: 7 broken hill rd.
City: pittsford
State: NY
County: Monroe
Zip: 14534
Phone: 123-123-1234
TTYPhone:
Fax: 123-123-1236
Latitude: 43.054527296101504
Longitude: -77.46296882829395

A Google map showing the location of the branch office. The map is centered on Pittsford and shows surrounding areas like Kreag Rd Park, S Ridge Trail, Woods Dr, and Garnsey Arboretum. Roads labeled include 96, 490, Co Rd 25, and Pittsford Victor Rd. A pin marks the location near the intersection of 96 and 490. The map includes a scale bar (2000 ft/500 m) and a compass rose.

The next tab is the treatments that are available at this organization:

Some Hospital [close]

General Locations Treatment Services-Training Facilities Physicians People

Treatments

Type	Abbreviation
Abdominal aneurysm treatment	S-AANeu
Administer thrombolytics and stabilize for transport to a cath lab	C-Thromb
Administer thrombolytics for acute strokes	N-Thromb
Admit patients for acute psychiatric care	PS-Admit
Burn Center	Tr-Burn
Orthopedic consultation services for ED	O-Con
State designated Stroke Center	N-Stroke
State designated Trauma Center	Tr-State
Treat minor trauma	Tr-Min
Vascular consultation services for ED	S-Vasc

Then the Services/Training:

Some Hospital [close]

General Locations Treatment Services-Training Facilities Physicians People

Services / Training

Type	Abbreviation
3 EMT-I or EMT-I/85 (DOT) Intermediate Life Support	EMT-I/85
4 EMT-CC or EMT-I/99 (DOT) Intermediate Life Support	EMT-I/99
Advanced Life Support - Critical Care	EMT-CC
Automatic External Defibrillator	AED
Bike / Water / Snow - Rescue & Transport	Rescue
BP Clinic	BP
Chairmobile/Stretcher Van	Chair
Facility Tours	Tours
First Aid	FA
Loans To Residents In Coverage Area	Loans
Other	OTH
Pre-Arranged Transport	Trans
Rapid Sequence Intubation	RSI
Standby At School, Community, and Sports Events	Stby
SWAT Medic	SWAT
Tox-medic	Tox

Then the Facilities:

Some Hospital [close]

General	Locations	Treatment	Services-Training	Facilities	Physicians	People
Facilities						
Name	Quantity	Description				
A/C	2	cool...				
Beds	486	comfy with the max num. of characters allowed				
CookingWater	33	don't drink				
DrinkingWater	12	nice to drink				
Refrigeration	12	fun				

Then the Physicians:

Some Hospital [close]

General	Locations	Treatment	Services-Training	Facilities	Physicians	People
Physicians with Admitting Privileges						
Name	License	Contact				
Diane Ahiman	1111114	(585) 244-7330				
Bilal Ahmed	1111115	(585)341-6751				
Mehmet Aktas	1111116	(585)275-2475				
Vythilingam Alagappan	1111117	(585) 538-6250				
Jeffrey D. Alberts	1111118	(585)225-2600				
Jeffrey D. Alexis	1111119	(585) 275-2475				
Leslie F. Algase	1111120	(585) 641-0400				
Egan F. Allen	1111121	(585)341-6770				
Jeffrey P. Allerton	1111122	(585)275-5823				
Tresa L. Almy-Albert	1111123	(585)225-2525				
Sanjiv B. Amin	1111124	(585) 275-2972				
Ernest T. Anderson	1111125	(585) 482-1140				
Joy E. Anderson	1111126	(585) 341-6750				
Carl H. Andrus	1111127	(585) 275-1611				

Then the people. There are different groups of people dependent upon the locations found above. Again, you'll have to find a logical way in which to display them:

Some Hospital [close]

General Locations Treatment Services-Training Facilities Physicians People

People

Please choose a Site: 9 broken hill rd

Site 6 : 9 broken hill rd

Name	Role
start lkj lkj	lkh lhjk
mid lkj lkj	lkj
end lkj lkj	lk

Some Hospital [close]

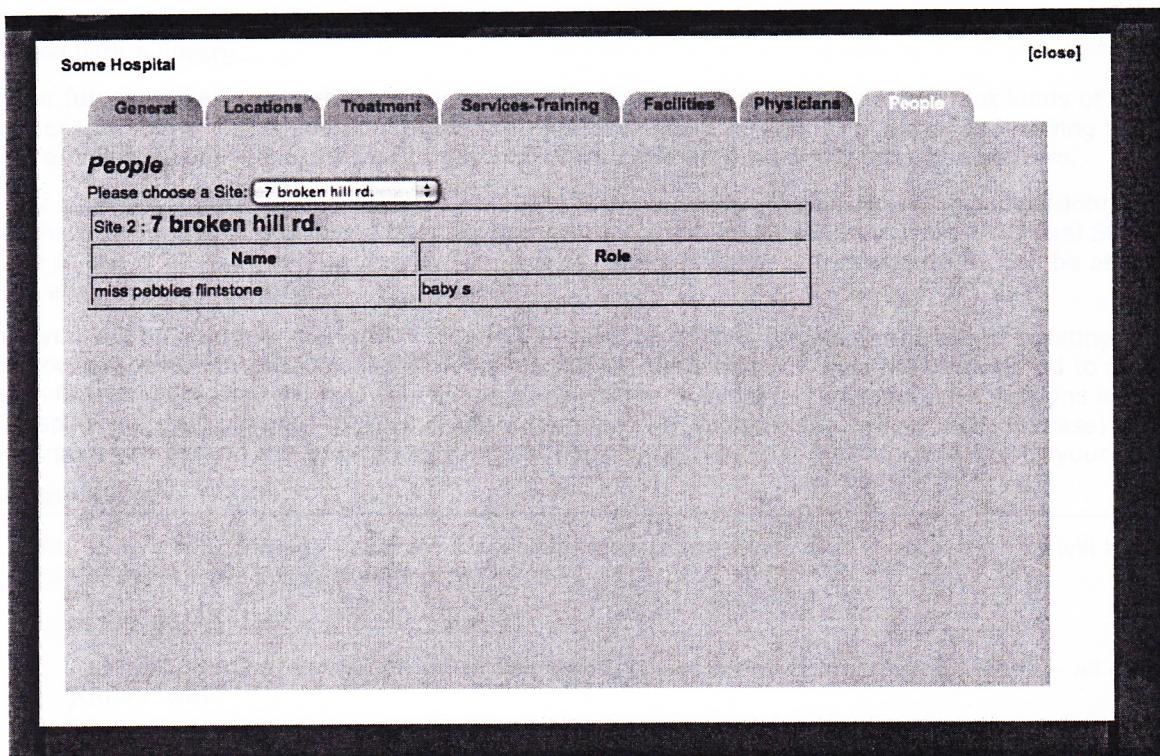
General Locations Treatment Services-Training Facilities Physicians People

People

Please choose a Site: 610 Cumberland ave

Site 1 : 610 Cumberland ave

Name	Role
kuh s kuh sd ghfhgf k	safari
test	Show all



Although the different types of organizations have different areas of information, if you check an Ambulance AND a Hospital you will see every possibility (General, Locations, Training, Treatment, Equipment, Facilities, Physicians, People).