

2/2/2020

Homework for Ajax Lesson

1. Answer the review questions on this lesson and go over them with a friend or one of the TAs.
 - 1.1. You do not need to turn these in, but you should review the answers that I post and ask me if you have any questions.
2. Do the “section 8” exercises:
 - 2.1. <http://mumstudents.org/cs472/2016-03-AS-KL/Sections/section08ajax-prototype.php>
 - 2.2. Try to do these exercises without looking at the solutions for at least 10 minutes. Then check out the hints and answers if necessary. Do at least the following 2 exercises:
 - 2.2.1. Ajax Pets
 - 2.2.2. Bootloader
 - 2.3. The Ajax exercises, Ajax Pets and BootLoader are using a PHP server that is running on mumstudents.org. Because of the same domain origin policy for JavaScript Ajax calls your calls must go back to your own web application.
 - 2.4. In order to get an image to display in an HTML page all you have to do is insert an element onto the page with the desired url for the image. The browser will then retrieve the image from the target url. You can use an absolute url for images (no cross domain restrictions on images) or you can copy the images to your website folders. You can find the absolute URL by looking in the Chrome console at the HTTP request messages.
 - 2.5. Note that Ajax Pets is using a library called Prototype instead of jQuery. The \$ identifier in its solution is referring to the Prototype library instead of jQuery. You can treat that as pseudocode. A jQuery solution will be slightly different.
3. Use the attached IntelliJ project , guestListAjax.zip, to create a web application that uses Ajax to dynamically add names to a guest list. Inspect it or try running it to see what remains to be done. This was a recent final exam programming question, so is good preparation for the final. Also, it is an excellent template for writing the server-side code that you will need for the project. It will show you where to put your JavaScript files and how to work with JSON in Java.
4. Do the Parsing JSON exercise below

Parsing JSON

Make use of the JSON service <http://jsonplaceholder.typicode.com>. Write a page that processes this simulated JSON blog data. Try to get at least part 2.1 completed. 2.2 is more complex. Do that if you have time and inspiration. Included below is a screen shot of one possible solution (also includes 2.2). You do not have to make it look exactly like this. Do this as a basic HTML application—HTML, CSS, JavaScript. You do not need servlets.

1. Create a Single Page Application (SPA) with an input form to take a userId from the browser
2. Display user name and email and address and all posts belonging to this userId
 - 2.1. retrieve all posts from selected user [/posts?userId=1](#). For efficiency remember to attach entire lists to DOM rather than each list item

- 2.2. For every post, include a button (show comments), upon clicking the button show all comments for the specific post. (optional)
 - 2.2.1. retrieve all comments from selected post </comments?postId=1>
 - 2.2.2. Hint: hide postId in data- attribute in each post.
 - 2.2.3. Consider using event delegation for the list of posts
 - 2.2.4. You may need to use \$(DOM).on() to attach event handler with functions to newly created elements

WHAT TO TURN IN:

1. Turn in your status report to Sakai, and
2. zip and attach your Ajax solutions for AjaxPets and Bootloader
3. zip and attach your solution to the GuestList
4. upload your Parsing JSON exercise solution to your github pages website. Include a link to that in your status report.

Jsonplaceholder API test

UserId:

Info

id
4

name
Patricia Lebsack

username
Karianne

email
Julianne.OConner@kory.org

phone
493-170-9623 x156

website
kale.biz

Posts

- ullam ut quidem id aut vel consequuntur
- debitis eius sed quibusdam non quis consectetur vitae impedit ut qui consequatur sed aut in quidem sit nostrum et maiores adipisci atque quaerat voluptatem adipisci repudiandae

- doloremque illum aliquid sunt
- deserunt eos nobis superiores et hic est debitis repellat molestiae optio nihil ratione ut eos beatae quibusdam distinctio maiores earum voluptates et aut adipisci ea maiores voluptas maxime

- qui explicabo molestiae dolorem
- rerum ut et numquam laborum odit est sit id qui sint in quasi tenetur tempore aperiam et quaerat qui in rerum officis sequi cumque quod

- magnam ut rerum iure
- ea velit perferendis earum ut voluptatem voluptate itaque nusto totam pariatur in nemo voluptatem voluptatem autem magni tempora minima in est distinctio qui assumenda accusamus dignissimos officia nesciunt nobis

- id nihil consequatur molestias animi provident
- nisi error delectus possimus ut eligendi vitae placeat eos harum cupiditate facilis reprehenderit voluptatem beatae modi ducimus quo illum voluptas eligendi et nobis quia fugit

- fuga nam accusamus voluptas reiciendis itaque
- ad mollitia et omnis minus architecto odit voluptas doloremque maxime aut non ipsa qui alias veniam blanditibus culpa aut quia nihil cumque facere et occaecati qui aspernatur quia eaque ut aperiam inventore

- provident vel ut sit ratione est
- debitis et eaque non officia sed nesciunt pariatur vel voluptatem iste vero et es numquam aut expedita ipsam nulla in voluptates omnis consequatur aut enim officis in quam qui

Comments

- sint alias molestiae qui dolor vel
- Aimee.Binx@braeden.ca
- nam quas eaque unde dolor blanditibus cumque eaque omnis qui rerum ut sint quae numquam exercitationem atque aut praesentium ipsa sit neque sunt aut

- ea nam iste est repudiandae
- Eloy@vladimir.com
- molestiae voluptatem qui id facere nostrum quasi superiores rerum quisquam est repellendus delectus eos aut sed nemo non

- quia harum voluptatem et culpa
- Gabrielle@jeda.co.uk
- cupiditate optio in quidem adipisci sit dolor id et tenetur quo sit odit ape illum optio magnam qui molestiae eligendi harum optio dolores dolor quaerat nostrum

- dolor dolore similique tempore ducimus
- Lee@dawn.net
- unde non aliquid magni accusantium architecto et rerum autem eos explicabo et odio facilis sed rerum ex esse beatae quia

- cupiditate labore omnis consequatur
- Gideon.Hyatt@jalen.tv
- amet id deserunt ipsam cupiditate distinctio nulla voluptatem cum possit voluptate ipsum quidem blanditum quos nihil