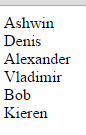
# Web 3 Practical – JSON, JavaScript Cookies and Local Storage

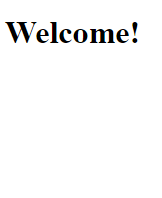
1. The data in the URL <https://dl.dropboxusercontent.com/u/10089854/Web3/data.json> is a JSON array containing a list of objects (key/value pairs). The file p1.js contains a JavaScript function (httpGet) capable of generating an HTTP GET request for a specific resource at a given URL. Ignore the inner workings of that function, we will study that in the next lecture. For the time being, simply parse the returned HTTP response (encapsulated in the variable response) and formatted in JSON into a JavaScript list object. Iterate over the members of the list and write to the browser window document object the name of each person in the data structure. The final result in your browser should look something similar to:



1. Create an array of objects in Javascript, serialize it into JSON and print the serialized object to the browser window.
2. You can't set cookies if your page is not served by a web server. To do this exercise you either need to fire up a local Web server or use an online development service such as <http://liveweave.com/>. If you want to use a local Web server, open the command line window in your lab computer and navigate to the folder where you want to start your web server (the folder where you have your exercise files). Type: >python -m http.server 8888 in the command prompt to start a local Web server in your current directory and listening on port 8888. You can keep that Web server at the URL <http://localhost:8888>

Next, create a cookie set to expire 7 days from the current date and verify that it has been correctly stored by the browser.

1. Write the necessary JavaScript code to read the cookie you set up in exercise 3.
2. Create an object in JavaScript and store it in local storage. Check that your data has been stored correctly by using Google developer tools (search under the Application tab).
3. Retrieve the object stored in exercise 5 and output its content to the browser window.
4. D:\Dropbox\Work\Teaching\IN712 - Web Programming 3\difficultyIcon.pngThink about how to write a script that checks if a user has visited a page before. Use **HTML**5 web storage rather than cookies since it is the most modern way to work. Implement your solution and verify that it works. Upon 1st visit to the webpage, your user should see the following page:



upon the 2nd and subsequent visits they should see:

