AngularJS ngStorage

Learning Objectives

- Students will learn to save data (e.g., app state) to local storage and session storage.
- Students can explain the difference between local storage and session storage, and when to use each.

Resources

https://github.com/gsklee/ngStorage https://blog.nraboy.com/2014/12/use-ngstorage-angularjs-local-storage-needs/

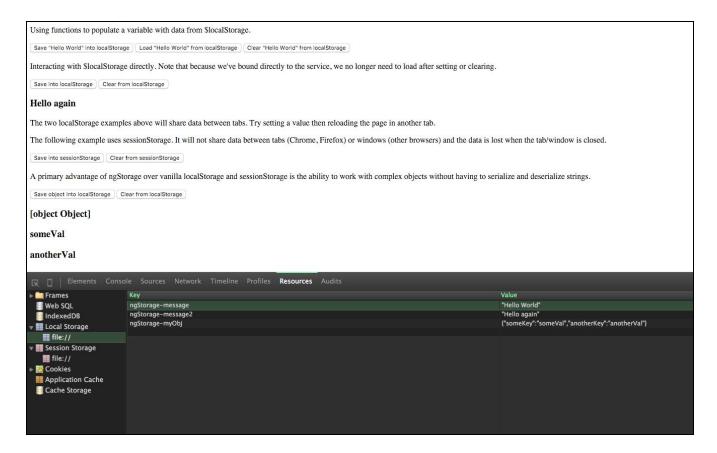
ngStorage

- ngStorage is a third party library. It exposes two services: \$localStorage and \$sessionStorage.
 These services wrap two pieces of native browser functionality that derive from the Web Storage specification:
 - Local storage: lasts until you or the user deletes it. Appropriate for long-term use (but not as persistent as server-side storage). Can communicate between tabs.
 - Session storage: attached to a specific window (tab in Chrome and Firefox). If a site is
 reloaded in the same window, the data persists. As soon as that window or tab is closed,
 the data is cleared. Less persistent than localStorage. Cannot communicate between tabs.
- Local and session storage are scoped to the document origin. E.g., example.com will not share data with google.com.
- For more details, see
 http://stackoverflow.com/questions/19867599/what-is-the-difference-between-localstorage-sessionst-orage-session-and-cookies
 Orage-session-and-cookies
- Follow the installation instructions on the project's README <u>here</u>:
 - 1. Install using Bower, npm, or use CDN. E.g.,
 - 1. bower install ngstorage --save
 - 2. Include ngStorage.js in your index.html after the angular.js reference.
 - 3. Add module dependency:
 - 1. angular.module('app', ['ngStorage'])

Complete example: https://github.com/MountainlandWEB/ngStorage/blob/master/index.html

Hosted here: http://mountainlandweb.github.io/ngStorage/

- Note that this example shows using \$localStorage to populate a scope variable, as well as
 interacting directly with the service from the markup. Exemplify use of localStorage by reloading the
 page or opening the page in multiple tabs. Exemplify use of sessionStorage by saving localStorage
 and sessionStorage values, closing tab, loading file in another tab, and noting that the localStorage
 items populate whereas the sessionStorage item does not.
- Demonstrate by viewing key:value pairs in dev tools:



- Additional example here:
 https://blog.nraboy.com/2014/12/use-ngstorage-angularjs-local-storage-needs/
- Contrast with persisting an object with vanilla localStorage:
 - localStorage can only handle key/value pairs where both the keys and the values are strings. ngStorage is more convenient because this serialization happens automatically.
 - Setting a value:
 - var someObject = { key1: "value1", key2: "value2" };
 - window.localStorage.set("myltem", JSON.stringify(someObject));
 - Getting a value:
 - var someObject = JSON.parse(window.localStorage.get("myltem"));
- Another very popular AngularJS localstorage library is angular-local-storage: https://github.com/grevory/angular-local-storage