

ARIA Week 5 Tutorial 2:

Creating a local storage capable application

HTML5 applications which use local storage allow us to store information on the user's device

Offline capable applications allow us to access important information on our mobile devices or desktop.

PART I

In Part I, we're going to create a page to detect if we're online or offline.

- 1) Create a new HTML file on the desktop called localStorage.html
- 2) In localStorage.html, we need to run some JavaScript to see if we have access to storage.

You can use the JavaScript "typeof" operator to check whether a variable is a string or numeric or other value. And you can find out if something is undefined, too. If Storage is undefined, it means that browser does not support local storage.

Write an if statement to check if Storage is undefined. If it is, alert the user that they need to upgrade their browser. If it is not undefined, congratulate the user on his or her wise choice of modern browser!

- 3) Run your file in the browser and find out if local storage is or is not defined.
- 4) BONUS: if you have access to a webserver, upload your file & then try to access it from a smart phone. Does the smart phone's browser have local storage capability?

PART II

In Part II, we're going to create a page that saves information from a form to local storage.

- 1) Download the file "sampleLocalStorage.html" from Moodle.
- 2) This file has a small form, a link to jQuery, and a local storage detection function.
- 3) Load the file in your browser and note which alert you get. If the alert indicate you don't have local storage, switch browsers to one that can use local storage.
- 4) The file has sections commented out so you know where you need to fix things.
Start with the HTML section and follow the comments until you have the page displaying content you've stored in the local storage variable.
- 5) For bonus points, think about how you could add another function to delete items from the list.

What would you need to know about an item to call the `removeItem` function on local storage? Don't be afraid to search online for hints or clues if you don't know.

To check your work, use the `LocalStorage_Answer.html` file.