# WebApp Checklist

# Setup

## GitHub

* The project should be in a separate repository named webapp
* Live branch should be gh-pages (to allow viewing on GitHub Pages)

## Files

* index.html - The app
* css/main.css - App styles
* js/main.js - App logic
* js/plugins.js - Any helper functions (e.g. personal library, shims)

## Style Guide

* Adhere to the given Style Guide  
  <https://drive.google.com/file/d/0B6ZIsommzsgVMU1mLW16Z1RURk0>
* OR some community driven JSCS style (like jQuery’s, Crockford’s, etc.)

## Source Files

* <https://drive.google.com/file/d/0B_q5xsDIvfrhbXMyOGx6dFYyRlU>
* Copy the contents of the Source folder into your project root

# Checklist

### Stage 1

* Download H5BP as the base for your project <http://h5bp.com>
* Copy the HTML content from the index.html (from Source Files) of the WebApp project into the index.html that came with H5BP
* fonts folder can be ignored for now
* Implement styling and fluid layout based on the screenshots and demo video (in the Source Files as well)

### Stage 2

* Add a JS Library to your project, with a namespace called UTILS and add it to your project in js/plugins.js based on this code: <http://codepen.io/netcraft/pen/BNNZKM?editors=001>
* Add functions to the library that implement cross browser event handling (support IE8+) (addEvent, removeEvent)
  + Usage
    - addEvent(elem, type, handler)
    - removeEvent(elem, type, handler)
  + Reference
    - See Events  
      <https://docs.google.com/document/d/1P44wmU7epwEvcxOJ8gsSheD7Gs7ZCDneRqKkyTkh4BY>
    - Cross Browser Event Handling in JavaScript  
      <http://www.anujgakhar.com/2013/05/22/cross-browser-event-handling-in-javascript/>
    - A cross-browser implementation of addEventListener/AttachEvent  
      <https://gist.github.com/eduardocereto/955642>
    - A cross-browser way of assigning event handlers  
      <http://javascript.info/tutorial/introduction-browser-events#a-cross-browser-way-of-assigning-event-handlers>
* Implement tabs navigation behavior with JS
  + Use the addEvent plugin you wrote
  + Each tab click should change the URL hash value (without jumping to an id of the same value)
    - <http://www.w3schools.com/jsref/prop_loc_hash.asp>
    - <https://developer.mozilla.org/en-US/docs/Web/API/WindowEventHandlers.onhashchange>
    - <http://stackoverflow.com/questions/3870057/how-can-i-update-window-location-hash-without-jumping-the-document>
  + Changing the hash value in the URL should trigger the relevant tab
  + Support tabs navigation using the keyboard
  + Make sure there’s a focus state similar to hover when navigating with the keyboard
* Extra (optional)
  + Support dropdowns navigation with the keyboard

### Stage 3

* Copy the AJAX plugin into js/plugins.js
  + Reference - AJAX Plugin v2  
    <http://codepen.io/netcraft/pen/Kvyte?editors=001>
* Implement WebApp notifications
  + On page load, make a GET request to data/config.json
  + If the file exists and has a notification key in it, display the content in the notification area, otherwise, notification area should stay hidden

### Stage 4

* Update plugins.js with JS Library v3  
  <http://codepen.io/netcraft/pen/rJtbd?editors=001>
* Add HTML content for each tab
  + Quick Reports and My Team Folders tabs
    - A form that allows saving a website as a setting (name, URL)
    - Should have a wheel icon (top right), clicking will toggle the form visibility and focus the first input
    - Should have Save button and Cancel link
      * Cancel - Hide the form
      * Save
        + Validate the form

If Name or URL entered, the other value must be filled as well.

If anything is invalid, add a red border around it, focus on the first invalid input

* + - * + If valid, hide the form
        + Add an iFrame with the URL of the last report settings
        + Add a dropdown (top left) with the report names

Choosing a report should update the iFrame

* + - * + Add an arrow icon (top right) next to the wheel

clicking will open the iFrame URL in a new tab

* + - The whole form should be accessible using the keyboard
      * Tab press through the inputs, buttons and icons
      * Enter inside any input should act as Save
      * Esc inside any input should act as Cancel
    - Removing reports
      * Deleting entries in the form should remove the report from the dropdown
      * If all entries are deleted, revert to the initial state
    - Page refresh
      * For now, save reports data in a JS object, this will be lost after page refresh. Later we’ll do it with cookies or localStorage
  + My Folders and Public Reports tabs
    - An iFrame with a predefined URL (choose whatever you like)
    - An arrow icon (top right), clicking should open the iFrame URL in a new tab

### Stage 5

* Add input placeholders for all forms, and the search box (support IE8)
* Validate URL with RegEx (support `http` and `https`)
  + Add protocol if omitted (when Saved), e.g.  
    netcraft.co.il will become  
    http://netcraft.co.il
* Make the Search box (top right) search a specific report
  + Searching a report name (or part of it) should find it under "Quick Reports" or "My Team Folders" and make it the visible report
  + If not found, add a message in the notification area  
    “The searched report \_\_\_\_\_ was not found.”
  + If multiple reports with the same name exist, choose the first one
* Continue IE8 support (layout + behavior)

### Stage 5

* localStorage
  + Save the reports settings using localStorage
    - Use only 1 key for the whole data
  + On page load, restore the saved reports data into the forms and dropdowns
  + Also save the last selected tab