# Tests

## Environmental Configuration

* Perform tests using different operating systems and platforms, e.g. Windows, OSX, Android, iOS.
* Perform tests using different browsers, starting with the most popular (Chrome) and working down.
* Perform tests in a number of screen resolutions.

The test app is a simple web application that will show you a grid of items, where you can select any one you want, and those will remain selected even if you refresh the browser. It loads 100 items at a time, and if you scroll to the end of the page it will load 100 items more. That's it. Click here to open the app.

## Test Cases

* \*Open the page, verify that a grid of 100 items is displayed.
* \*Open the page, select and deselect items, confirm that their state changes.
* \*Open the page, select multiple items without scrolling downwards, refresh the page, confirm that the selected changes remain selected.
* Open the page, select no items, refresh the page, confirm that there are no items selected.
* \*Open the page, select an item, then deselect it. Refresh the page, confirm that there are no items selected.
* \*Open the page, select multiple items within the first 100, including the 100th item. Refresh the page, confirm that the selected changes remain selected.
* Open the page, select multiple items, unselect some of them, confirm that the selected changes remain selected.
* \*Open the page, scroll to the bottom, select multiple items, some in the first 100, some in later ones. Refresh the page, confirm that the selected changes remain selected.
* \*Open the page, scroll to the bottom a high number of times, e.g. 10, confirm that you can still select items, and they will be remembered on refresh.
* Open the page in two browsers. Make changes in one, then refresh the page in the other, check its state.

All tests with asterisks have been automated.

## Defects

### Bug Ticket #0001

**Summary**: Last selected item forgotten on refresh.

**Description**: After refreshing a page where some items have been selected, The item with the highest number will be deselected.

**Steps To Reproduce**:

1. Open page.
2. Select three items, e.g. 2, 3 & 4.
3. Refresh the page.

**Expected Results**: Items 2, 3 & 4 remain selected

**Actual Results**: Items 2 & 3 are selected.

**Error Messages**: None.

**Workaround**: No known workaround as no way to find out previous state of page after refresh.

**Browser**: Reproduced on Chrome (90.0.4430.212), Firefox (88.0.1), Safari (14.1.1 (16611.2.7.1.4)) which suggests this is not browser dependent.

**Operating System**: Reproduction attempt on OSX Big Sur 11.4 only.