

## JavaScript Events Lab 4

In this exercise an event will be created on a parent node to demonstrate event delegation. An event will occur on a child element and it will be dealt with by the parent element.

### Exercise 1 – Event Delegation.

The steps outlined below will help you complete the exercise:

1. On Moodle download the zip file, event-delegation.zip, and extract the file to a location of your choice on your device.
2. Open the file event-delegation.html in a text editor of your choice.
3. Create a new file, named event-delegation.js.
4. Add Javascript to event-delegation.js to create an event listener for the element with the id “shoppingList”. Refer to JavaScript Events Lab 1, exercise 3 for details on how to create an event listener.
5. Ensure the event listener uses bubbling for event flow – refer to JavaScript Events lab 2 for details on how to do this.
6. The event should be updated to listen for a “click” event.
7. The event listener must include a function which accepts an argument for the event object:

e.g. `function itemRemove(e) {}`

8. The following describes what should happen when the event is invoked. Basically what is required of the function specified in the event listener:

When a user clicks on an `<li>` element in the unordered list (`<ul>`), the `<li>` element should be removed.

For example, if a user clicks on honey:

## List King

### Buy groceries

- fresh figs
- pine nuts
- honey
- balsamic vinegar

This element will be removed and the user will see the web page updated to the following:

# List King

## Buy groceries

- fresh figs
- pine nuts
- balsamic vinegar

Note that in the html the `<li>` element is a parent of the `<a>` element, so target it as follows:

```
var target = getTarget(e); // returns the <a> element.  
var liTarget = target.parentNode; // gets the li element, as it's the parent of <a> element.  
var ulTarget = liTarget.parentNode; // gets the ul element, as it's the parent of the <li>  
element.
```

To remove the list item:

```
ulTarget.removeChild(liTarget);
```

Add the following to the event listener function to prevent the link from taking you elsewhere:

```
e.preventDefault();
```