

COMP 2537 Web Development 2

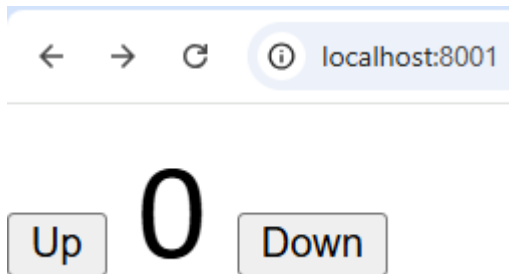
Lab 1

COMP 2537 Web Development 2
Lab 1 Exercise

Introduction:

You'll be creating a simple website to demonstrate some basic forms and sessions.

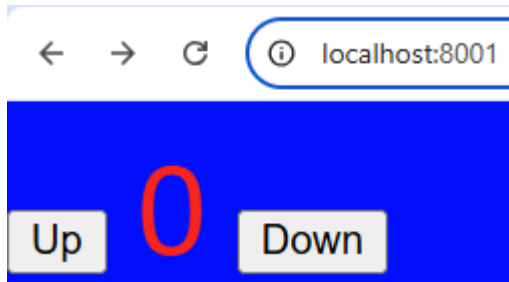
The main page will display a count which will be specific to this user (stored in a session). Clicking the "Up" button will add 1 to the count, "Down" will subtract 1. You can use an incognito/private browser window to simulate a different user.



If you go to the settings page, you can change some CSS settings for the page (ex: color and background color). These CSS settings will be stored in a session (along with the count).

Ex: `/changeStyle?color=red&bg=blue`

After setting some CSS values, the home page will remember your settings and display appropriately.



These CSS styles (red text on blue background from the example above) will remain until either the browser deletes the cookie or the server (Node.js) restarts.

COMP 2537 Web Development 2
Lab 1 Exercise

Instructions:

Create a really simple website (with multiple pages/routes) that allow for the following functionality:

1. Session for CSS settings:

A page/route that can set a CSS style that will be saved in a session.

For example:

Before a session is created the home page has black text on a white background.

When you go to the following page: `/changeStyle?color=red&bg=blue`

it sets a session that saves the foreground and background color for the text.

Now when you go to the home page it will have **red text on a blue background**.

This change will remain for the length of the session (until you reboot the Node.js server - in-memory session; or until the cookie is deleted) and will be specific to each user (you can have separate sessions with separate CSS styles - ex: in an incognito window)

2. Show a counter (stored in a session):

A page that shows the current count (will start at 0 for each new session). The page will have an "up" button and a "down" button. The "up" button will increment the count for this session and the "down" will decrement. Opening an incognito/private browsing window should treat you as a separate user and create a new session with a separate count. Again the session does not need to be persistent - it's ok if the session is restarted when Node.js restarts).

COMP 2537 Web Development 2
Lab 1 Exercise

Marking Guide:

Criteria	Marks
Webpage that allows for saving a CSS style change as a session. Demo what your site looks like without a session (delete cookies if needed). Demo setting a session in a regular browser window and show it saves the CSS styles. Demo an incognito/private browsing window (should be the default styles). Demo setting the session in the incognito window.	5 marks
Buttons that increment and decrement the count within a session. Open an incognito/private window and show that the count can be incremented and decremented separately from a regular window.	5 marks
Total:	10 marks

Submission Requirements:

Submission:
Show your lab instructor during lab time. No submission needed (unless you can't make it to class).