

2025 CpSc H Q15

Section: Web Design and Development

Topic: Implementation Using HTML, CSS and JavaScript

Question Summary

A navigation bar displays links for Scotland, England, and Wales. The CSS is intended to change the background to black and the text to white when hovering over a link, but this effect does not work. The task is to identify the change required for correct functionality.

Worked Solution

Problem

The CSS currently includes this rule:

```
nav:hover {background-color:black; color:white;}
```

This selector applies the hover effect to the entire navigation area rather than to each individual link. When the cursor moves over a single link, the browser only considers that `<a>` hovered, not the `<nav>` container.

Correct Approach

```
nav ul li a:hover {  
  background-color: black;  
  color: white;  
}
```

This targets each link individually, ensuring that only the hovered link changes colour. Optionally, use `display:block;` on the anchor to make the hover fill the full list-item width.

Final Answer

Change: `nav:hover {background-color:black; color:white;}` to: `nav ul li a:hover {background-color:black; color:white;}` (Optional improvement: add `display:block;` to `nav ul li a` for better spacing and usability.)

Revision Tips

- The `:hover` pseudo-class must be placed on the element that responds (usually the `<a>`).
- `display:block` allows the entire link area to react, not just the text.

- Use browser developer tools to confirm which element is being hovered when debugging CSS.