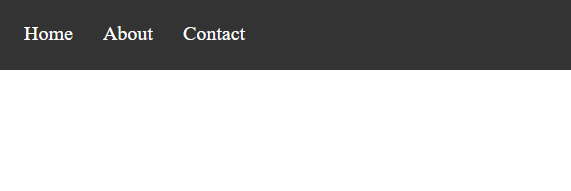
**Q1: Can you create a simple HTML navigation bar to navigate to a list of items with basic styling using CSS?**

****

<!DOCTYPE html>

<html>

<head>

<title>Navigation Bar</title>

<style>

nav {

background-color: #333;

padding: 20px;

}

nav ul {

list-style-type: none;

margin: 0;

padding: 0;

}

nav li {

display: inline-block;

margin-right: 20px;

}

nav a {

color: #fff;

text-decoration: none;

}

</style>

</head>

<body>

<nav>

<ul>

<li><a href="#">Home</a></li>

<li><a href="#">About</a></li>

<li><a href="#">Contact</a></li>

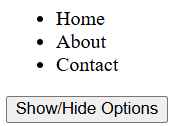
</ul>

</nav>

</body>

</html>

**Q2: Build an HTML navigation bar styled with CSS and include a JavaScript function to show or hide the options based on a user’s action (e.g., clicking a button).**

****

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Navigation Bar</title>

<link rel="stylesheet" href="styles.css">

</head>

<body>

<nav class=" NavigationBar">

<ul>

<li><a href="#">Home</a></li>

<li><a href="#">About</a></li>

<li><a href="#">Contact</a></li>

</ul>

</nav>

<button id="showHideOptions">Show/Hide Options</button>

<script src="script.js"></script>

</body>

</html>

```

CSS Navigation Bar Styles:

```css

/\* Navigation Bar \*/

.NavigationBar {

position: fixed;

top: 0;

left: 0;

width: 100%;

background-color: #333;

padding: 10px;

}

.NavigationBar ul {

list-style: none;

margin: 0;

padding: 0;

}

.NavigationBar li {

display: inline-block;

margin-right: 20px;

}

.NavigationBar a {

color: #fff;

text-decoration: none;

}

/\* Hover Effects \*/

.NavigationBar li:hover {

background-color: #444;

border-bottom: 1px solid #333;

}

/\* Mobile Navigation \*/

@media only screen and (max-width: 600px) {

.NavigationBar {

top: 0;

left: 0;

width: 100%;

padding: 10px;

}

.NavigationBar ul {

flex-direction: column;

}

.NavigationBar li {

margin-right: 0;

}

}

```

JavaScript Navigation Bar Function:

```javascript

// Get the navigation bar button element

const showHideOptionsButton = document.getElementById("showHideOptions");

// Add an event listener to the button

showHideOptionsButton.addEventListener("click", function() {

// Toggle the class of the navigation bar options

const options = document.querySelectorAll(".NavigationBar li");

if (options.classList.contains("show")) {

options.classList.remove("show");

} else {

options.classList.add("show");

}

});

**Consulta adicional: Build an HTML navigation bar styled with CSS and include a JavaScript function to show or hide the options based on a user’s action (e.g., clicking a button). JavaScript must be placed inside a regular <script> tag.**

****

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Navigation Bar</title>

<link rel="stylesheet" href="styles.css">

</head>

<body>

<nav class="navigation">

<ul>

<li><a href="#">Home</a></li>

<li><a href="#">About</a></li>

<li><a href="#">Contact</a></li>

</ul>

</nav>

<script src="script.js"></script>

</body>

</html>

```

And here is the CSS styling for the navigation bar:

```

nav {

background-color: #333;

position: fixed;

top: 0;

left: 0;

width: 100%;

display: flex;

justify-content: space-between;

align-items: center;

}

nav ul {

list-style: none;

margin: 0;

padding: 0;

}

nav li {

margin-right: 20px;

}

nav a {

color: #fff;

text-decoration: none;

}

@media (max-width: 768px) {

nav {

flex-direction: column;

}

}

```

And here is the JavaScript function to show or hide the options based on a user's action:

```

function toggleOptions() {

const options = document.querySelectorAll('.navigation ul li');

if (options.classList.contains('show')) {

options.classList.remove('show');

} else {

options.classList.add('show');

}

}

```

You can call this function by adding an event listener to a button, like this:

```

const toggleButton = document.querySelector('#toggle-button');

toggleButton.addEventListener('click', toggleOptions);

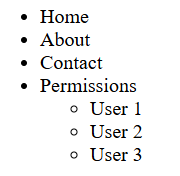
```

And adding the button to the page:

```

<button id="toggle-button">Toggle Options</button>

**Q3: Create a responsive HTML, CSS, and JavaScript interface that displays a navigation bar where certain options are visible only to a user with permission.**

****

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Navigation Bar</title>

<link rel="stylesheet" href="style.css">

</head>

<body>

<nav class="navbar">

<ul>

<li><a href="#">Home</a></li>

<li><a href="#">About</a></li>

<li><a href="#">Contact</a></li>

<li class="permissions">

<a href="#">Permissions</a>

<ul class="sub-nav">

<li><a href="#">User 1</a></li>

<li><a href="#">User 2</a></li>

<li><a href="#">User 3</a></li>

</ul>

</li>

</ul>

</nav>

<script src="script.js"></script>

</body>

</html>

```

Step 2: Add CSS styles

Create a `style.css` file and add the following code to it:

```css

\* {

box-sizing: border-box;

}

body {

font-family: Arial, sans-serif;

display: flex;

flex-direction: column;

align-items: center;

justify-content: space-between;

}

nav {

background-color: #333;

padding: 10px;

border-bottom: 1px solid #444;

}

ul {

list-style: none;

margin: 0;

padding: 0;

}

li {

display: inline-block;

margin-right: 20px;

}

li a {

color: #444;

text-decoration: none;

}

.permissions {

display: none;

}

@media (max-width: 768px) {

.permissions {

display: block;

}

}

```

Step 3: Add JavaScript functionality

Create a `script.js` file and add the following code to it:

```javascript

const permissions = document.querySelector('.permissions');

function showPermissions() {

if (localStorage.getItem('user\_id') !== '1') {

permissions.style.display = 'block';

} else {

permissions.style.display = 'none';

}

}

showPermissions();

window.addEventListener('resize', showPermissions);

```

Step 4: Add event listener to the menu item

Add the following code to your HTML file, inside the `li` element with the class `permissions`:

```html

<li class="permissions">

<a href="#" onclick="showPermissions()">Permissions</a>

<ul class="sub-nav">

<!-- Add your permissions options here -->

</ul>

</li>