Full Stack Application Development with Cloud Computing

Module 2 – Front-End Development Tools, Technologies and Frameworks

Lab - 4

Unit 4 – Front-End Frameworks - Bootstrap

Topic: JS Properties

Ex. 1: Create a webpage that features a responsive navigation bar with a dropdown menu. Additionally, you want the dropdown menu to open on hover rather than click. Implement this using Bootstrap and JavaScript.

```
<!DOCTYPE html>
<html>
<head>
   <title>Responsive Navbar with Hover Dropdown</title>
   <!-- Include Bootstrap CSS -->
   <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
   <!-- Include custom CSS -->
   <style>
      body {
         background-color: #f8f9fa;
         font-family: Arial, sans-serif;
      }
   </style>
</head>
<body>
   <nav class="navbar navbar-expand-lg navbar-light bg-light">
      <div class="container">
         <a class="navbar-brand" href="#">My Website</a>
```

```html
        <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNavDropdown" aria-controls="navbarNavDropdown" aria-expanded="false" aria-label="Toggle navigation">
          <span class="navbar-toggler-icon"></span>
        </button>
        <div class="collapse navbar-collapse" id="navbarNavDropdown">
          <ul class="navbar-nav ml-auto">
            <li class="nav-item dropdown">
              <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">
                Dropdown
              </a>
              <div class="dropdown-menu" aria-labelledby="navbarDropdown">
                <a class="dropdown-item" href="#">Item 1</a>
                <a class="dropdown-item" href="#">Item 2</a>
                <a class="dropdown-item" href="#">Item 3</a>
              </div>
            </li>
          </ul>
        </div>
      </div>
    </nav>

    <!-- Include Bootstrap JS and Popper.js -->
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
    <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>
    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>

    <!-- Custom JS -->
    <script>
      // Open dropdown menu on hover
      $(document).ready(function() {
```
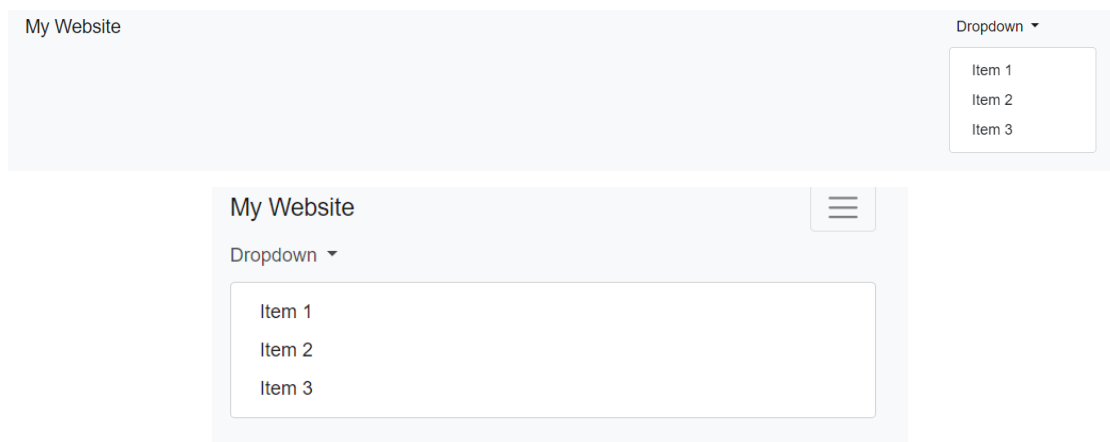
```
    $('.dropdown').hover(function() {

        $(this).find('.dropdown-menu').stop(true, true).delay(200).fadeIn(300);

    }, function() {

        $(this).find('.dropdown-menu').stop(true, true).delay(200).fadeOut(300);

    });

    });

</script>

</body>

</html>
```

Output:

My Website		Dropdown ▾
		Item 1
		Item 2
		Item 3

My Website ☰
Dropdown ▾

Item 1
Item 2
Item 3

Practice Question

Ex. 2: Create a webpage for a restaurant that offers an online reservation system. Create a form that allows users to select a reservation date and time. Implement a date and time picker using Bootstrap's Datepicker and Timepicker