Build Your IT Skill

ណែនាំស្គាល់ Bootstrap

Framework Responsive

រៀបរៀងដោយៈ គ្រូអាយធីចិត្តល្អ

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097 226 8884

មេរៀនទី ៣

Bootstrap (Web Responsive)

I. ដូចម្ដេចទៅដែលហៅថា Bootstrap ?

Bootstrap គឺជាប្រភេទ Framework ដែលមានលទ្ធភាពអាចបង្កើតនូវ Webpage មានលក្ខណៈជា Responsive ពោលគឺ Webpage ដែលពត្រឹកឬ បង្រួមខ្លួនរបស់វា ទៅតាម Plat form ផ្សេងៗ របស់ Devices។ លក្ខណៈសំខាន់ ដែលអ្នកគួរតែប្រើ ប្រាស់នូវ Bootstrap ដូចជា៖

❖ គឺជាប្រភេទ Front end framework មានលក្ខណៈល្បឿន និង ងាយ ស្រួលប្រើប្រាស់សំរាប់បង្កើត Website។

❖ Bootstrap រួមមាន HTML និង CSS ផ្នែកសំខាន់លើការ design templates for forms, buttons, tables, navigation, image -ល-។

❖ BootStrap វាផ្ដល់លទ្ធភាពងាយស្រួលក្នុងការបង្កើតគេហទំព័រ។

❖ BootStrap អាចដំណើរលើ Browser ប្រភេទថ្មីៗជាច្រើនដូចជា៖ (Chrome, Firefox, Internet Explorer, Edge, Safari, និង Opera)

❖ គោលបំណងសំខាន់របស់ BootStrap គឺ Mobile or Smart Phone.
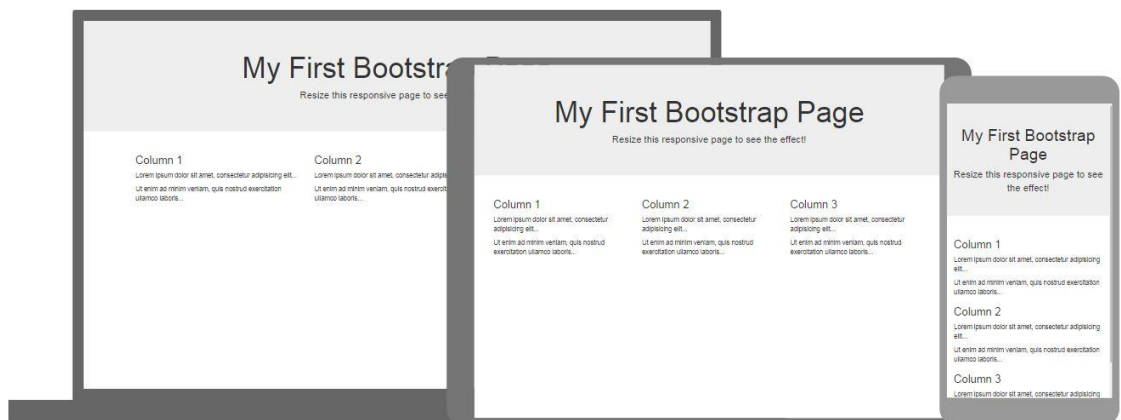
II. **វិធីសាស្ត្រប្រើប្រាស់**

ដើម្បីអាចប្រើប្រាស់នូវ BootStrap អ្នកអាចប្រើប្រាស់បានពីរបៀបគឺៈ

១) . ទាញយក Library framework របស់ Bootstrap តាម

URL(http://getbootstrap.com) ដាក់ចូលក្នុងកុំព្យូទ័ររបស់អ្នក (ទំរង់នេះជា

ប្រភេទ offline framework)

២). អាចប្រើប្រាស់តាមទំរង់ CDN ដែលក្នុងណាៈ Online ពេលគឺមិន ចាំ

បាច់ទាញយក Boostrap មកដាក់លើ Computer របស់អ្នកទេ។

ឧទាហរណ៍ ១ៈ


```html
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container">
  <h1>ETEC i.T Professional Center with Bootstrap Page</h1>
  <p>This part is inside a .container class.</p>
  <p>The .container class provides a responsive fixed width container.</p>
</div>

</body>
</html>
```

ETEC i.T Professional Center with Bootstrap Page

This part is inside a .container class.

The .container class provides a responsive fixed width container.

ឧទាហរណ៍ ២ៈ


```html
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container-fluid">
  <h1>ETEC CENTER  Bootstrap Page</h1>
  <p>This part is inside a .container-fluid class.</p>
  <p>The .container-fluid class provides a full width container, spanning the entire width of the viewport.</p>
</div>

</body>
</html>
```

ETEC CENTER Bootstrap Page

This part is inside a .container-fluid class.

The .container-fluid class provides a full width container, spanning the entire width of the viewport.

ការរៀបចំ Layout ក្នុង CSS

span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1

span 4	span 4	span 4

span 4	span 8

span 6	span 6

span 12

Grid Classes

The Bootstrap grid system has four classes:

- `xs` (for phones - screens less than 768px wide)
- `sm` (for tablets - screens equal to or greater than 768px wide)
- `md` (for small laptops - screens equal to or greater than 992px wide)
- `lg` (for laptops and desktops - screens equal to or greater than 1200px wide)

The classes above can be combined to create more dynamic and flexible layouts.

Basic Structure of a Bootstrap Grid

The following is a basic structure of a Bootstrap grid:

```html
<div class="container">
  <div class="row">
    <div class="col-*-*"></div>
    <div class="col-*-*"></div>
  </div>
  <div class="row">
    <div class="col-*-*"></div>
    <div class="col-*-*"></div>
    <div class="col-*-*"></div>
  </div>
  <div class="row">
    ...
  </div>
</div>
```

ឧទាហរណ៍ ១ Full screen width

```html
<div class="container-fluid">
  <h1>Hello World!</h1>
  <div class="row">
    <div class="col-sm-6" style="background-color:yellow;">
      <p>Lorem ipsum...</p>
    </div>
    <div class="col-sm-6" style="background-color:pink;">
      <p>Sed ut perspiciatis...</p>
    </div>
  </div>
</div>
```

ឧទាហរណ៍ ២ fixed-width screen width

```html
<div class="container">
  <h1>Hello World!</h1>
  <div class="row">
    <div class="col-sm-6" style="background-color:yellow;">
      <p>Lorem ipsum...</p>
    </div>
    <div class="col-sm-6" style="background-color:pink;">
      <p>Sed ut perspiciatis...</p>
    </div>
  </div>
</div>
```

ឧទាហរណ៍ ៣

```html
<div class="container-fluid">
  <h1>Hello World!</h1>
  <p>Resize the browser window to see the effect.</p>
  <p>The columns will automatically stack on top of each other when the screen is
  <div class="row">
    <div class="col-sm-4" style="background-color:lavender;">.col-sm-4</div>
    <div class="col-sm-4" style="background-color:lavenderblush;">.col-sm-4</div>
    <div class="col-sm-4" style="background-color:lavender;">.col-sm-4</div>
  </div>
</div>
```

លទ្ធផលទទួលបាន

Three Equal Columns

.col-sm-4	.col-sm-4	.col-sm-4

ឧទាហរណ៍ ៤

```html
<div class="container-fluid">
  <h1>Hello World!</h1>
  <p>Resize the browser window to see the effect.</p>
  <p>The columns will automatically stack on top of each other when the screen is
wide.</p>
  <div class="row">
    <div class="col-sm-4" style="background-color:lavender;">.col-sm-4</div>
    <div class="col-sm-8" style="background-color:lavenderblush;">.col-sm-8</div>
  </div>
</div>
```

លទ្ធផលទទួលបាន

Two Unequal Columns

.col-sm-4	.col-sm-8

ឧទាហរណ៍ ៥

```html
<!-- Setting two column widths -->
<div class="row">
  <div class="col-4">1 of 4</div>
  <div class="col-6">2 of 4</div>
  <div class="col">3 of 4</div>
  <div class="col">4 of 4</div>
</div>
```

លទ្ធផលទទួលបាន

1 of 4	2 of 4	3 of 4	4 of 4

ឧទាហរណ៍ ៣៖ ការបង្កើត Table Responsive

```html
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4     <title>Bootstrap Example</title>
5     <meta charset="utf-8">
6     <meta name="viewport" content="width=device-width, initial-scale=1">
7     <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
8     <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
9     <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
10  </head>
11  <body>
12
13  <div class="container">
14    <h2>Hover Rows</h2>
15    <p>The .table-hover class enables a hover state on table rows:</p>
16    <table class="table table-hover">
17      <thead>
18        <tr>
19          <th>Firstname</th>
20          <th>Lastname</th>
21          <th>Email</th>
22        </tr>
23      </thead>
24      <tbody>
25        <tr>
26          <td>John</td>
27          <td>Doe</td>
28          <td>john@example.com</td>
29        </tr>
30        <tr>
31          <td>Mary</td>
32          <td>Moe</td>
33          <td>mary@example.com</td>
34        </tr>
35        <tr>
36          <td>July</td>
37          <td>Dooley</td>
38          <td>july@example.com</td>
39        </tr>
40      </tbody>
41    </table>
42  </div>
43
44  </body>
45  </html>
46
```

លទ្ធផលទទួលបាន៖

Hover Rows

The .table-hover class enables a hover state on table rows:

Firstname	Lastname	Email
John	Doe	john@example.com
Mary	Moe	mary@example.com
July	Dooley	july@example.com

ឧទាហរណ៍ ៤៖ របៀបធ្វើ Image Gallary ដាលក្ខណៈ Responsive

```
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4     <title>Bootstrap Example</title>
5     <meta charset="utf-8">
6     <meta name="viewport" content="width=device-width, initial-scale=1">
7     <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
8     <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
9     <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
10  </head>
11  <body>
12
13  <div class="container">
14    <h2>Circle</h2>
15    <p>The .img-circle class shapes the image to a circle (not available in IE8):</p>
16    <img src="cinqueterre.jpg" class="img-circle" alt="Cinque Terre" width="304" height="236">
17  </div>
18
19  </body>
20  </html>
21  |
```

Circle

The .img-circle class shapes the image to a circle (not available in IE8):

លទ្ធផលទទួលបាន៖

ឧទាហរណ៍ ៥៖ របៀបធ្វើ Image Gallary ដាលក្ខណៈ Responsive

```
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4     <title>Bootstrap Example</title>
5     <meta charset="utf-8">
6     <meta name="viewport" content="width=device-width, initial-scale=1">
7     <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
8     <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
9     <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
10  </head>
11  <body>
12
13  <div class="container">
14    <h2>Thumbnail</h2>
15    <p>The .img-thumbnail class creates a thumbnail of the image:</p>
16    <img src="cinqueterre.jpg" class="img-thumbnail" alt="Cinque Terre" width="304" height="236">
17  </div>
18
19  </body>
20  </html>
21
```

Thumbnail

The .img-thumbnail class creates a thumbnail of the image:

លទ្ធផលទទួលបាន៖

ឧទាហរណ៍ ៦៖ របៀបធ្វើ Image Gallary ដាលក្ខណៈ Responsive

```html
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4     <title>Bootstrap Example</title>
5     <meta charset="utf-8">
6     <meta name="viewport" content="width=device-width, initial-scale=1">
7     <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
8     <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
9     <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
10  </head>
11  <body>
12
13  <div class="container">
14    <h2>Image Gallery</h2>
15    <p>The .thumbnail class can be used to display an image gallery.</p>
16    <p>The .caption class adds proper padding and a dark grey color to text inside thumbnails.</p>
17    <p>Click on the images to enlarge them.</p>
18    <div class="row">
19      <div class="col-md-4">
20        <div class="thumbnail">
21          <a href="/w3images/lights.jpg" target="_blank">
22            <img src="/w3images/lights.jpg" alt="Lights" style="width:100%">
23            <div class="caption">
24              <p>Lorem ipsum donec id elit non mi porta gravida at eget metus.</p>
25            </div>
26          </a>
27        </div>
28      </div>
29      <div class="col-md-4">
30        <div class="thumbnail">
31          <a href="/w3images/nature.jpg" target="_blank">
32            <img src="/w3images/nature.jpg" alt="Nature" style="width:100%">
33            <div class="caption">
39      <div class="col-md-4">
40        <div class="thumbnail">
41          <a href="/w3images/fjords.jpg" target="_blank">
42            <img src="/w3images/fjords.jpg" alt="Fjords" style="width:100%">
43            <div class="caption">
44              <p>Lorem ipsum donec id elit non mi porta gravida at eget metus.</p>
45            </div>
46          </a>
47        </div>
48      </div>
49    </div>
50  </div>
51
52  </body>
53  </html>
```

លទ្ធផលទទួលបាន៖

Image Gallery

The .thumbnail class can be used to display an image gallery.

The .caption class adds proper padding and a dark grey color to text inside thumbnails.

Click on the images to enlarge them.

Lorem ipsum donec id elit non mi porta gravida at eget metus.

Lorem ipsum donec id elit non mi porta gravida at eget metus.

Lorem ipsum donec id elit non mi porta gravida at eget metus.

លំហាត់អនុវត្តន៍ ១

លំហាត់អនុវត្តន៍ ២

ឧទាហរណ៍ ៧៖ របៀបបង្កើតនូវ Menu Responsive

✓ Navigation Menu

```
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4     <title>Bootstrap Example</title>
5     <meta charset="utf-8">
6     <meta name="viewport" content="width=device-width, initial-scale=1">
7     <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
8     <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
9     <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
10  </head>
11  <body>
12
13  <nav class="navbar navbar-inverse">
14    <div class="container-fluid">
15      <div class="navbar-header">
16        <a class="navbar-brand" href="#">ETEC I.T Training Center</a>
17      </div>
18      <ul class="nav navbar-nav">
19        <li class="active"><a href="#">Home</a></li>
20        <li><a href="#">About</a></li>
21        <li><a href="#">Contact</a></li>
22        <li><a href="#">Download</a></li>
23      </ul>
24    </div>
25  </nav>
26
27  <div class="container">
28    <h3>Inverted Navbar</h3>
29    <p>Write Something</p>
30  </div>
31
32  </body>
33  </html>
34  |
```

លទ្ធផលទទួលបាន៖
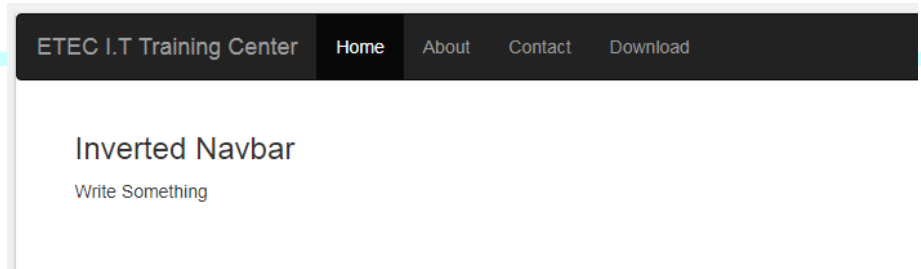
Navigation Bar With Dropdown

```
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4     <title>Bootstrap Example</title>
5     <meta charset="utf-8">
6     <meta name="viewport" content="width=device-width, initial-scale=1">
7     <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
8     <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
9     <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
10  </head>
11  <body>
12
13  <nav class="navbar navbar-inverse">
14    <div class="container-fluid">
15      <div class="navbar-header">
16        <a class="navbar-brand" href="#">ETEC I.T Traning Center</a>
17      </div>
18      <ul class="nav navbar-nav">
19        <li class="active"><a href="#">Home</a></li>
20        <li class="dropdown">
21          <a class="dropdown-toggle" data-toggle="dropdown"
22             href="#">Page 1 <span class="caret"></span></a>
23          <ul class="dropdown-menu">
24            <li><a href="#">About</a></li>
25            <li><a href="#">Contact</a></li>
26            <li><a href="#">Download</a></li>
27          </ul>
28        </li>
29      </ul>
30    </div>
31  </nav>
32
33  <div class="container">
34    <h3>Navbar With Dropdown</h3>
35    <p>This example adds a dropdown menu for the "Page 1" button in the navigation bar.</p>
36  </div>
37
38  </body>
39  </html>
40
```
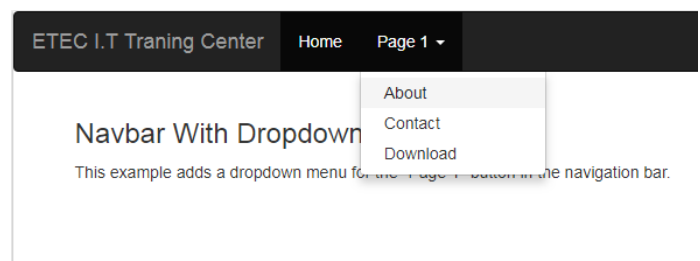
លទ្ធផលទទួលបាន៖

Right-Aligned Navigation Bar

```html
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4    <title>Bootstrap Example</title>
5    <meta charset="utf-8">
6    <meta name="viewport" content="width=device-width, initial-scale=1">
7    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
8    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
9    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
10 </head>
11 <body>
12 <nav class="navbar navbar-inverse">
13   <div class="container-fluid">
14     <div class="navbar-header">
15       <a class="navbar-brand" href="#">ETEC CENTER</a>
16     </div>
17     <ul class="nav navbar-nav">
18       <li class="active"><a href="#">Home</a></li>
19       <li class="dropdown"><a class="dropdown-toggle" data-toggle="dropdown"
20          href="#">Download<span class="caret"></span></a>
21         <ul class="dropdown-menu">
22           <li><a href="#"></a></li>
23           <li><a href="#"></a></li>
24           <li><a href="#">Contact</a></li>
25         </ul>
26       </li>
27       <li><a href="#">About</a></li>
28     </ul>
29     <ul class="nav navbar-nav navbar-right">
30       <li><a href="#"><span class="glyphicon glyphicon-user"></span> Sign Up</a></li>
31       <li><a href="#"><span class="glyphicon glyphicon-log-in"></span> Login</a></li>
32     </ul>
33   </div>
34 </nav>
35
36 <div class="container">
37   <h3>Right Aligned Navbar</h3>
38   <p>The .navbar-right class is used to right-align navigation bar buttons.</p>
39 </div>
40
41 </body>
42 </html>
43
```
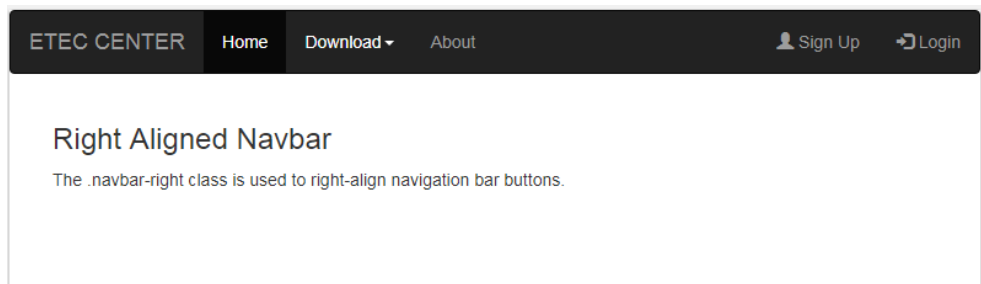
លទ្ធផលទទួលបាន៖

Navigationbar Forms
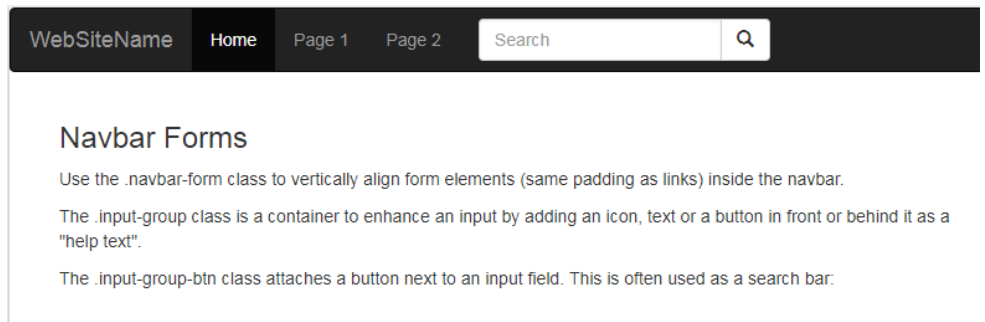
```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4    <title>Bootstrap Example</title>
5    <meta charset="utf-8">
6    <meta name="viewport" content="width=device-width, initial-scale=1">
7    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
8    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
9    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
10 </head>
11 <body>
12
13 <nav class="navbar navbar-inverse">
14   <div class="container-fluid">
15     <div class="navbar-header">
16       <a class="navbar-brand" href="#">WebSiteName</a>
17     </div>
18     <ul class="nav navbar-nav">
19       <li class="active"><a href="#">Home</a></li>
20       <li><a href="#">Page 1</a></li>
21       <li><a href="#">Page 2</a></li>
22     </ul>
23     <form class="navbar-form navbar-left" action="/action_page.php">
24       <div class="input-group">
25         <input type="text" class="form-control" placeholder="Search" name="search">
26         <div class="input-group-btn">
27           <button class="btn btn-default" type="submit">
28             <i class="glyphicon glyphicon-search"></i>
29           </button>
30         </div>
31       </div>
32     </form>
33   </div>
34 </nav>
35
36 <div class="container">
37   <h3>Navbar Forms</h3>
38   <p>Use the .navbar-form class to vertically align form elements (same padding as links)
39   <p>The .input-group class is a container to enhance an input by adding an icon, text or
40   <p>The .input-group-btn class attaches a button next to an input field. This is often us
41 </div>
42
43 </body>
44 </html>
```

លទ្ធផលទទួលបានៈ

លំហាត់អនុវត្តន៍ ១

លំហាត់អនុវត្តន៍ ២

ឧទាហរណ៍ ៨៖ របៀបបង្កើតនូវ Form លក្ខណៈជា Responsive

```
2   <html lang="en">
3   <head>
4     <title>Bootstrap Example</title>
5     <meta charset="utf-8">
6     <meta name="viewport" content="width=device-width, initial-scale=1">
7     <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
8     <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
9     <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
10  </head>
11  <body>
12
13  <div class="container">
14    <h3>User Login </h3>
15
16  <form>
17    <div class="input-group">
18      <span class="input-group-addon"><i class="glyphicon glyphicon-user"></i></span>
19      <input id="email" type="text" class="form-control" name="email" placeholder="Email">
20    </div>
21    <div class="input-group">
22      <span class="input-group-addon"><i class="glyphicon glyphicon-lock"></i></span>
23      <input id="password" type="password" class="form-control" name="password" placeholder="Password">
24    </div>
25    <div class="input-group">
26      <span class="input-group-addon"><i class="glyphicon glyphicon-lock"></i></span>
27      <input id="password" type="password" class="form-control" name="password" placeholder="Password">
28    </div>
29  </form>
30    <br/>
31    <button type="submit" class="btn btn-default">Submit</button>
32    <button type="reset" class="btn btn-default">Reset</button>
33  </div>
34
35  </body>
36  </html>
```

លទ្ធផលទទួលបាន៖

ឧទាហរណ៍ ៩៖ របៀបបង្កើតនូវ Form លក្ខណៈជា Responsive

```
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4     <title>Bootstrap Example</title>
5     <meta charset="utf-8">
6     <meta name="viewport" content="width=device-width, initial-scale=1">
7     <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
8     <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
9     <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
10  </head>
11  <body>
12  <div class="container">
13    <h2>Horizontal form</h2>
14    <form class="form-horizontal" action="/action_page.php">
15      <div class="form-group">
16        <label class="control-label col-sm-2" for="email">Email:</label>
17        <div class="col-sm-10">
18          <input type="email" class="form-control" id="email" placeholder="Enter email" name="email">
19        </div>
20      </div>
21      <div class="form-group">
22        <label class="control-label col-sm-2" for="pwd">Password:</label>
23        <div class="col-sm-10">
24          <input type="password" class="form-control" id="pwd" placeholder="Enter password" name="pwd">
25        </div>
26      </div>
27      <div class="form-group">
28        <div class="col-sm-offset-2 col-sm-10">
29          <div class="checkbox">
30            <label><input type="checkbox" name="remember"> Remember me</label>
31          </div>
32        </div>
33      </div>
34      <div class="form-group">
35        <div class="col-sm-offset-2 col-sm-10">
36          <button type="submit" class="btn btn-default">Submit</button>
37          <button type="reset" class="btn btn-default">Reset</button>
38        </div>
39      </div>
40    </form>
41  </div>
42
43  </body>
44  </html>
```

លទ្ធផលទទួលបាន៖

Horizontal form

Email:

[Enter email]

Password:

[Enter password]

☐ Remember me

[Submit] [Reset]

ឧទាហរណ៍ ១០៖ របៀបបង្កើតនូវ Form លក្ខណៈជា Responsive

```
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4     <title>Bootstrap Example</title>
5     <meta charset="utf-8">
6     <meta name="viewport" content="width=device-width, initial-scale=1">
7     <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
8     <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
9     <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
10  </head>
11  <body>
12
13  <div class="container">
14    <h3>Employee Information</h3>
15    <form>
16      <div class="form-group">
17        <label for="usr">Input Code:</label>
18        <input type="text" class="form-control" id="id">
19      </div>
20      <div class="form-group">
21        <label for="usr">Input Name:</label>
22        <input type="text" class="form-control" id="name">
23      </div>
24      <div class="form-group">
25        <label for="sel1">Select list (select one):</label>
26        <select class="form-control" id="sel1">
27          <option>Male</option>
28          <option>Female</option>
29          <option>Other</option>
30        </select>
31      </div>
32      <div class="form-group">
33        <label for="sel1">Address:</label> <br/>
34      <label class="radio-inline">
35        <input type="radio" name="optradio" checked>Phnom Penh
36      </label>
37      <label class="radio-inline">
38        <input type="radio" name="optradio">Kanda
39      </label>
40      <label class="radio-inline">
41        <input type="radio" name="optradio">Siem Reap
42      </label>
43    </div>
44      <br/>
45      <div class="form-group">
46        <label for="comment">Comment:</label>
47        <textarea class="form-control" rows="5" id="comment"></textarea>
48      </div>
49      <button type="submit" class="btn btn-default">Submit</button>
50      <button type="reset" class="btn btn-default">Reset</button>
51  </div>
52  </body>
53  </html>
```

លទ្ធផលទទួលបាន៖

Employee Information

Input Code:

Input Name:

Select list (select one):

Male ▼

Address:
◉ Phnom Penh ○ Kanda ○ Siem Reap

Comment:

Submit   Reset

លំហាត់អនុវត្តន៍

១)

Student Data

Name

My Name

Please enter your first and last name. (required)

Password

Password must be five or more characters. (required)

Hobbies
☐ Surfing ☐ Running ☐ Biking ☐ Paddling
Check zero or more hobbies. (optional)

Level
○ Freshman ○ Sophomore ○ Junior ○ Senior ○ Other
Select your grade level. (required)

GPA
Please select a value
Select your GPA. (required)

Majors
Physics
Chemistry
Mathematics
Biology
Select zero or more majors. (optional)

Submit   Cancel

២)

ឧទាហរណ៍ ១១៖ របៀបបង្កើតនូវ Carousel/ Gallery Slide Animation លក្ខណៈជា Responsive

```html
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4     <title>Bootstrap Example</title>
5     <meta charset="utf-8">
6     <meta name="viewport" content="width=device-width, initial-scale=1">
7     <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
8     <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
9     <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
10  </head>
11  <body>
12
13  <div class="container">
14    <h2>Carousel Example</h2>
15    <div id="myCarousel" class="carousel slide" data-ride="carousel">
16      <!-- Indicators -->
17      <ol class="carousel-indicators">
18        <li data-target="#myCarousel" data-slide-to="0" class="active"></li>
19        <li data-target="#myCarousel" data-slide-to="1"></li>
20        <li data-target="#myCarousel" data-slide-to="2"></li>
21      </ol>
22
23      <!-- Wrapper for slides -->
24      <div class="carousel-inner">
25        <div class="item active">
26          <img src="la.jpg" alt="Los Angeles" style="width:100%;">
27        </div>
28
29        <div class="item">
30          <img src="chicago.jpg" alt="Chicago" style="width:100%;">
31        </div>
32
33        <div class="item">
34          <img src="ny.jpg" alt="New york" style="width:100%;">
35        </div>
36      </div>
37
38      <!-- Left and right controls -->
39      <a class="left carousel-control" href="#myCarousel" data-slide="prev">
40        <span class="glyphicon glyphicon-chevron-left"></span>
41        <span class="sr-only">Previous</span>
42      </a>
43      <a class="right carousel-control" href="#myCarousel" data-slide="next">
44        <span class="glyphicon glyphicon-chevron-right"></span>
45        <span class="sr-only">Next</span>
46      </a>
47    </div>
48  </div>
49
50  </body>
51  </html>
```

លទ្ធផលទទួលបាន

Carousel Example

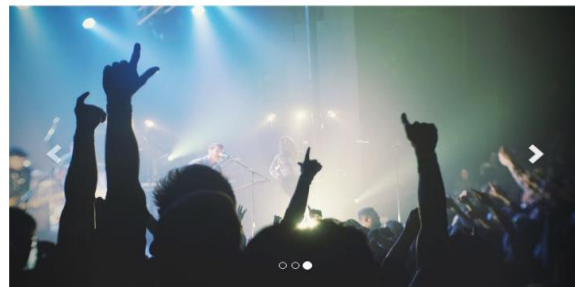## ឧទាហរណ៍ ១១៖ របៀបបង្កើតនូវ Carousel/ Gallery Slide Animation លក្ខណៈជា Responsive

```
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4     <title>Bootstrap Example</title>
5     <meta charset="utf-8">
6     <meta name="viewport" content="width=device-width, initial-scale=1">
7     <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
8     <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
9     <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
10    <style>
11    .carousel-inner > .item > img,
12    .carousel-inner > .item > a > img {
13        width: 70%;
14        margin: auto;
15    }
16    </style>
17  </head>
18  <body>
19
20  <div class="container">
21    <br>
22    <div id="myCarousel" class="carousel slide" data-ride="carousel">
23      <!-- Indicators -->
24      <ol class="carousel-indicators">
25        <li data-target="#myCarousel" data-slide-to="0" class="active"></li>
26        <li data-target="#myCarousel" data-slide-to="1"></li>
27
28      </ol>
30      <!-- Wrapper for slides -->
31      <div class="carousel-inner" role="listbox">
32
33        <div class="item active">
34          <img src="img_chania.jpg" alt="Chania" width="460" height="345">
35          <div class="carousel-caption">
36            <h3>Chania</h3>
37            <p>The atmosphere in Chania has a touch of Florence and Venice.</p>
38          </div>
39        </div>
40
41        <div class="item">
42          <img src="img_chania2.jpg" alt="Chania" width="460" height="345">
43          <div class="carousel-caption">
44            <h3>Chania</h3>
45            <p>The atmosphere in Chania has a touch of Florence and Venice.</p>
46          </div>
47        </div>
48      </div>
49
50      <!-- Left and right controls -->
51      <a class="left carousel-control" href="#myCarousel" role="button" data-slide="prev">
52        <span class="glyphicon glyphicon-chevron-left" aria-hidden="true"></span>
53        <span class="sr-only">Previous</span>
54      </a>
55      <a class="right carousel-control" href="#myCarousel" role="button" data-slide="next">
56        <span class="glyphicon glyphicon-chevron-right" aria-hidden="true"></span>
57        <span class="sr-only">Next</span>
58      </a>
59    </div>
60  </div>
61
62  </body>
63  </html>
```
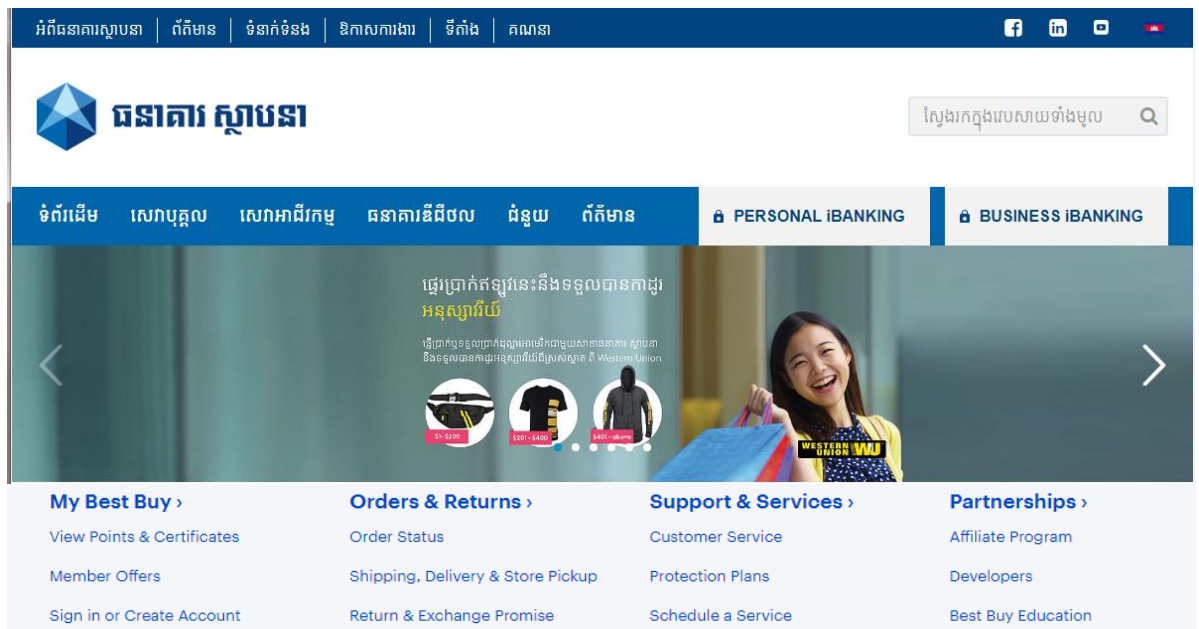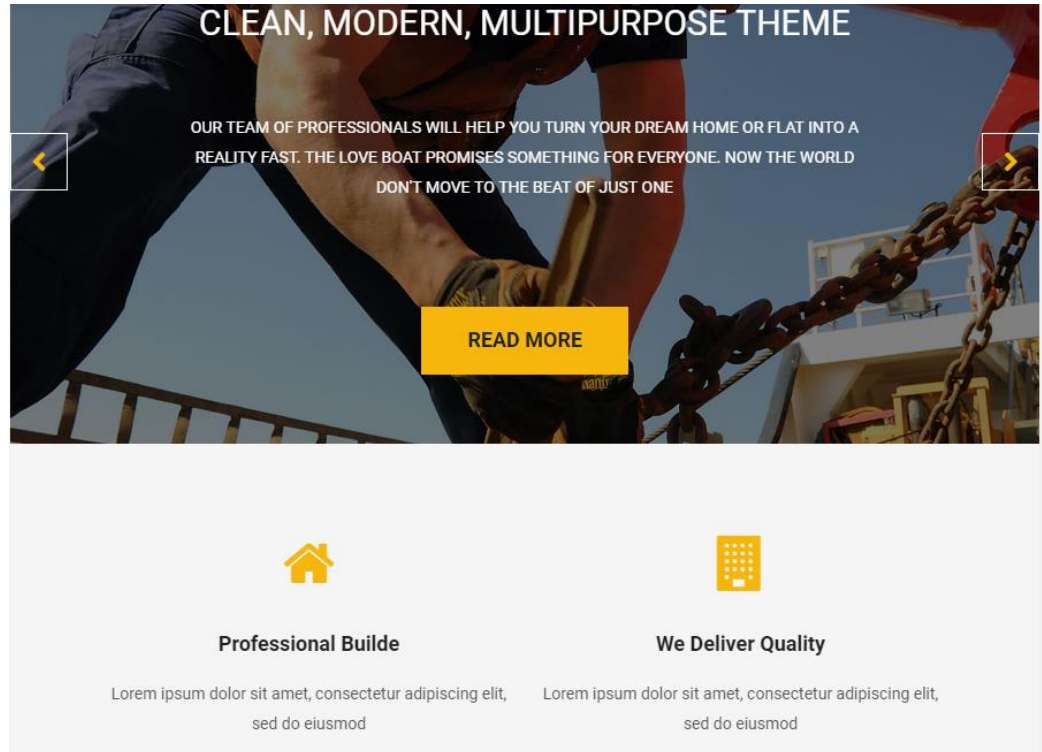
លទ្ធផលទទួលបាន៖

Ref: https://www.w3schools.com/bootstrap/bootstrap_ref_js_carousel.asp

លំហាត់អនុវត្តន៍

១).

២)

៣)