



Build Your IT Skill



ផែនវំស្តាល់ Bootstrap Framework Responsive

អ៊ូបានឯងដោយ: ក្រសួងយោថតិន្នន័យ

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097 226 8884

មេរីនទី ៣

Bootstrap (Web Responsive)

I. ចូលឆ្លើមដោយផ្តល់នូវបង្កើត Bootstrap ?

Bootstrap គឺជាប្រព័ន្ធគម្រោងនៃការបង្កើតនូវ Webpage មានលក្ខណៈជារៀបចំ Responsive នៅលើគេហទ័រ។ Webpage ដែលបានបង្កើតឡើងនៅលើកម្ពស់នៃផែតាម Platform ផ្សេងៗ និង Devices នូវលក្ខណៈសំខាន់ដែលអ្នកគួរតែប្រើប្រាស់នូវ Bootstrap ដូចជា៖

- ❖ គឺជាប្រព័ន្ធគម្រោងនៃការបង្កើតនូវ Website ដែលបានបង្កើតឡើងនៅលើកម្ពស់នៃផែតាម HTML និង CSS ផ្នែកសំខាន់លើការ design templates for forms, buttons, tables, navigation, image - ឬ - ។
- ❖ BootStrap រាជ្យបាន HTML និង CSS ផ្នែកសំខាន់លើការ design templates for forms, buttons, tables, navigation, image - ឬ - ។
- ❖ BootStrap អាចដំណឹងលក្ខណៈការបង្កើតគេហទ័រ។
- ❖ BootStrap អាចដំណឹងលក្ខណៈការបង្កើតគេហទ័រនៃប្រភេទ Browser ប្រចាំពេលដូចជា៖ (Chrome, Firefox, Internet Explorer, Edge, Safari, និង Opera)។
- ❖ គោលបំណងសំខាន់របស់ BootStrap គឺ Mobile or Smart Phone.

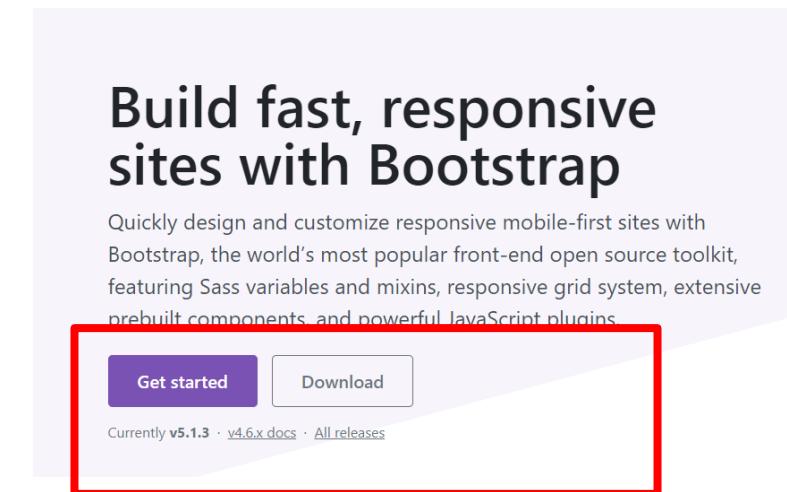


II. ទិន្នន័យបច្ចុប្បន្ន

ដើម្បីអាចប្រើប្រាស់នូវ BootStrap អ្នកអាចប្រើប្រាស់បានពីរបៀបគឺ៖

១) . ទាញយក Library framework របស់ Bootstrap តាម

URL(<http://getbootstrap.com>) ដាក់ចូលក្នុងកុងក្នុងរបស់អ្នក (ទាំងនេះជាប្រភេទ offline framework)



២). អាចប្រើប្រាស់តាមទំនើស CDN ដាក់លក្ខណៈ Online ពេលគីមិន ចាំបីទាញយក Bootstrap មកដាក់លើ Computer របស់អ្នកទេ។

ឧទាហរណ៍

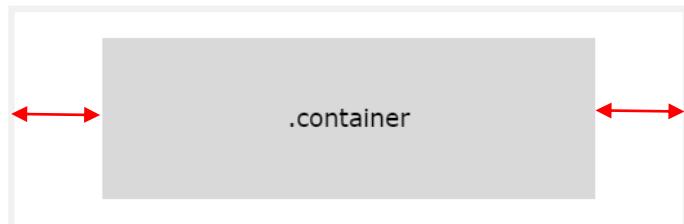
```
1 <html lang="en">
2 <head>
3   <title>Bootstrap 5 Example</title>
4   <meta charset="utf-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1">
6   <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.2/dist/css/bootstrap.min.css"
7       rel="stylesheet">
8   <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.2/dist/js/bootstrap.bundle.min.js">
9   </script>
10 </head>
11
```

III. គោលគ្រឿងនៃទូទៅ Bootstrap Containers

ចំពោះការរៀបចំផ្តល់ Layout ឬ Containers របស់ bootstrap ឲ្យបានការងារ ឬប្រភេទទីនេះ

❖ Container class : គឺជាប្រភេទទីនេះដែលត្រូវបានការងារនៅក្នុងទូទៅ

សម្រាប់បិទនូវផ្តល់ព័ត៌មានទូទៅនៃ Layout តើត្រូវតាមរាល់រាត់ full width ។

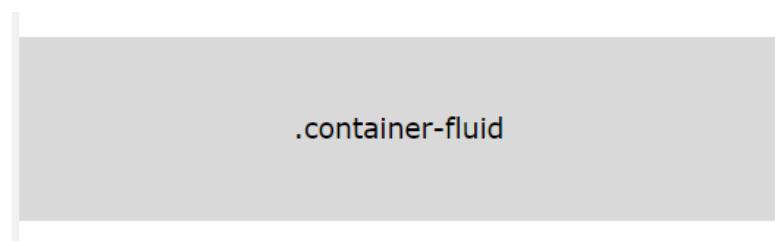


ឧចាបារណា ៖

```
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 href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.2/dist/css/bootstrap.min.css" rel="stylesheet">
8      <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.2/dist/js/bootstrap.bundle.min.js"></script>
9  </head>
10 <body>
11
12 <div class="container">
13     <h1>My First Bootstrap Page</h1>
14     <p>This is some text.</p>
15 </div>
16
17 </body>
18 </html>
19
```

❖ .container-fluid class : គឺជាប្រភេទទីនេះដែលត្រូវបានការងារនៅក្នុងទូទៅ

សម្រាប់បិទនូវផ្តល់ព័ត៌មានទូទៅនៃ Layout តើ លក្ខណៈ full width ។





ការអេឡិចត្រូនិក Layout នូវ Bootstrap

| | | | | | | | | | | | | | | | | |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|--|--|
| 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 1 | | | | |
| span 4 | | | | span 4 | | | | span 4 | | | | | | | | |
| span 4 | | | | span 8 | | | | | | | | | | | | |
| span 6 | | | | | | span 6 | | | | | | | | | | |
| span 12 | | | | | | | | | | | | | | | | |

- ❖ .col- (extra small devices - screen width less than 576px)
- ❖ .col-sm- (small devices - screen width equal to or greater than 576px)
- ❖ .col-md- (medium devices - screen width equal to or greater than 768px)
- ❖ .col-lg- (large devices - screen width equal to or greater than 992px)
- ❖ .col-xl- (xlarge devices - screen width equal to or greater than 1200px)
- ❖ .col-xxl- (xxlarge devices - screen width equal to or greater than 1400px)

**ជីថល់គារបែងចែកទាំងអស់ Column ព្រមទាំងអាជីវកម្មនៃការបង្កើត
ប្រព័ន្ធដែលត្រូវបានរាយការណ៍**

```
12 <div class=".....">
13
14   <div class="row">
15     <div class="col-*-*"></div>
16     <div class="col-*-*"></div>
17     .....
18   </div>
19   <div class="row">
20     <div class="col-*-*"></div>
21     <div class="col-*-*"></div>
22     <div class="col-*-*"></div>
23     .....
24   </div>
25   .....
26 </div>
27
```



ឧទាហរណ៍ ទ Full screen width

```
<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 ន fixed-width screen width

```
<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

```
<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</p>
  <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>
```

Three Equal Columns

លទ្ធផលទិន្នន័យ

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



ឧចាបារណ៍ ៥៖

```
<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>
```

លម្អិតលក្ខណៈលម្អិតប្រព័ន្ធ

Two Unequal Columns

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

IV. គាន់បង្កើតលើ Table នៃយោ bootstrap

ការបង្កើតនូវ Table responsive របស់ bootstrap ក៏មិនខ្សោយពីការបង្កើតនូវ Table របស់ HTML ដែលគ្រាន់តែនៅក្នុង bootstrap ប្រើប្រាស់នូវ class ដំឡើយបន្លែម។

ឧចាបារណ៍ ៦៖

```
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 href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.2/dist/css/bootstrap.min.css" rel="stylesheet">
8    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.2/dist/js/bootstrap.bundle.min.js"></script>
9  </head>
10 <body>
11
12 <div class="container">
13   <h2>Basic Table Bootstrap5</h2>
14   <p>The .table class adds basic styling (light padding and horizontal dividers) to a table:</p>
15
16 <table class="table">
17   <thead>
18     <tr>
19       <th>First Name</th>
20       <th>Last Name</th>
21       <th>Email</th>
22     </tr>
23   </thead>
24 </table>
```



```
25 <tbody>
26   <tr>
27     <td>Dara</td>
28     <td>Van</td>
29     <td>dara@gmail.com</td>
30   </tr>
31   <tr>
32     <td>Mary</td>
33     <td>Kim</td>
34     <td>kim@gmail.com</td>
35   </tr>
36   <tr>
37     <td>Van</td>
38     <td>Dara</td>
39     <td>van@example.com</td>
40   </tr>
41 </tbody>
42 </table>
43 </div>
44
45 </body>
46 </html>
47
```

idlers) to a table:

លទ្ធផលទីនេះ

| First Name | Last Name | Email |
|------------|-----------|-----------------|
| Dara | Van | dara@gmail.com |
| Mary | Kim | kim@gmail.com |
| Van | Dara | van@example.com |

ឧចាបរណ៍ ២៖

```
12 <div class="container">
13   <h2>Basic Table Bootstrap5</h2>
14   <p>The .table class adds basic styling (light padding and horizontal dividers)
15   | to a table:</p>
16
17   <table class="table table-bordered table-sm table-hover">
18     <thead>
19       <tr>
20         <th>First Name</th>
21         <th>Last Name</th>
22         <th>Email</th>
23       </tr>
24     </thead>
25     <tbody>
26       <tr>
27         <td>Dara</td>
28         <td>Van</td>
29         <td>dara@gmail.com</td>
30       </tr>
31       <tr>
32         <td>Mary</td>
33         <td>Kim</td>
34         <td>kim@gmail.com</td>
35       </tr>
36       <tr>
```



```
36 <tr>
37   <td>Van</td>
38   <td>Dara</td>
39   <td>van@example.com</td>
40 </tr>
41 </tbody>
42 </table>
43 </div>
44 </body>
45 </html>
46
47
```

លទ្ធផលទីនេះ

Basic Table Bootstrap5

The .table class adds basic styling (light padding and horizontal dividers) to a table:

| First Name | Last Name | Email |
|------------|-----------|-----------------|
| Dara | Van | dara@gmail.com |
| Mary | Kim | kim@gmail.com |
| Van | Dara | van@example.com |

មិនមែន Class នេះ bootstrap មួយទេទាំងអស់នេះ table

- ❖ .table-dark
- ❖ .table-striped
- ❖ .table-hover
- ❖ .table-borderless
- ❖ .table-responsive

V. ការរៀបចំនូវរូបភាព

ឧចាបរណ៍ ទៅ

```
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 href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.2/dist/css/bootstrap.min.css" rel="stylesheet">
8   <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.2/dist/js/bootstrap.bundle.min.js"></script>
9 </head>
10 <body>
11
12 <div class="container">
13   <h2>Rounded Corners</h2>
14   <p>The .rounded class adds rounded corners to an image:</p>
15   
16   
17 </div>
18
19 </body>
20 </html>
21
```

លទ្ធផលទឹកលើនេះ



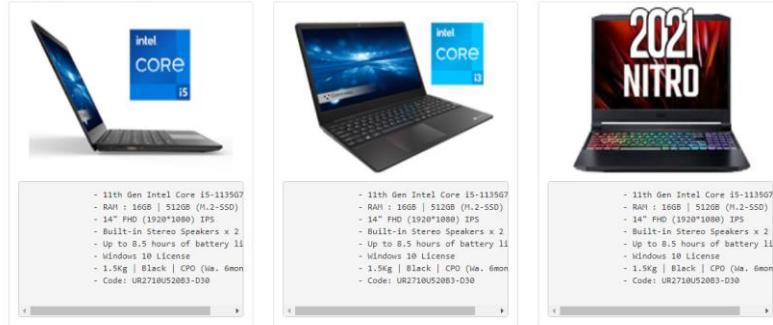


ឧចាបារណ៍ ឬ របៀបធ្វើ Image Gallary ដោលក្នុងរាជរដ្ឋបន្ថែម

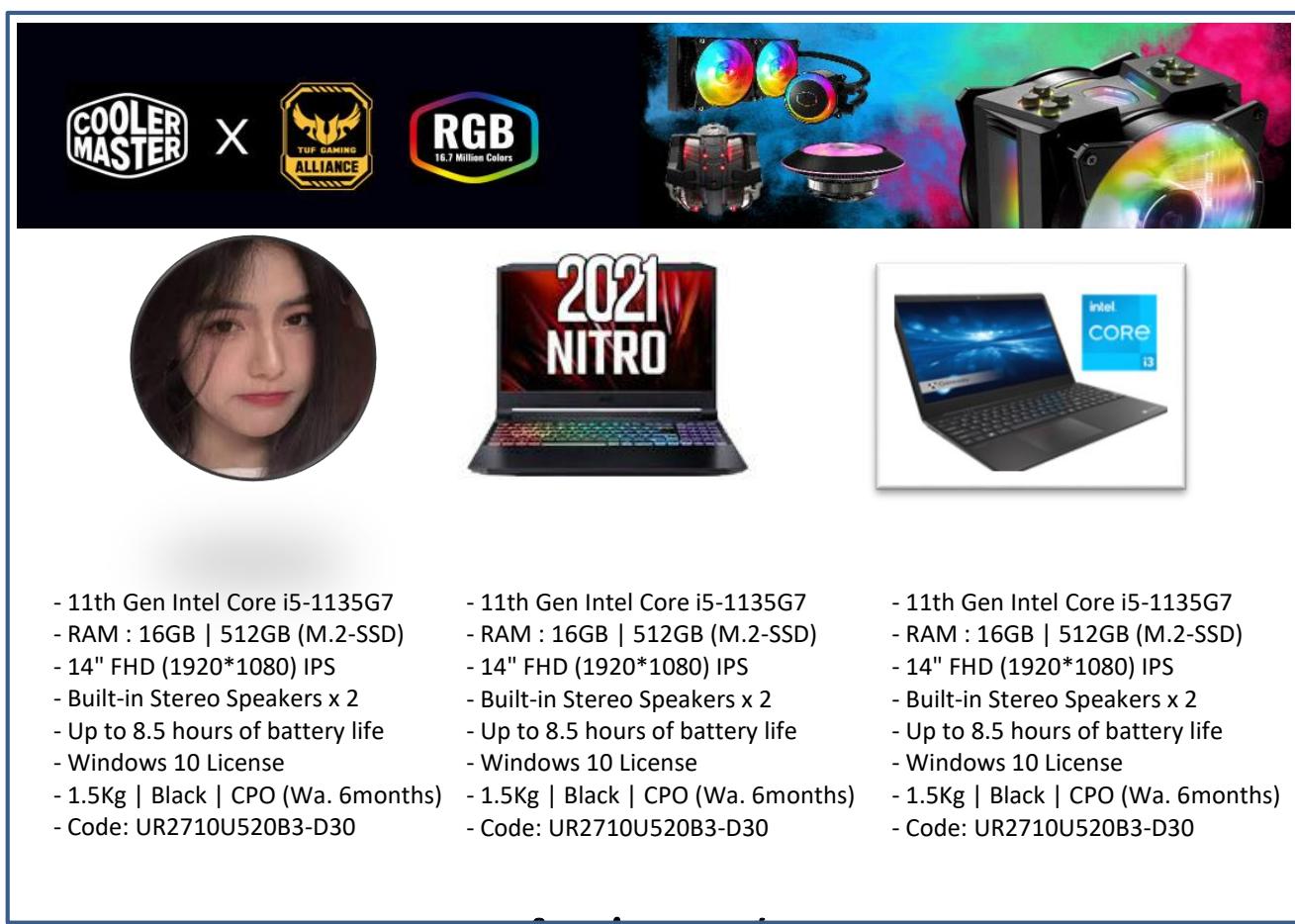
```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <title>Bootstrap Example</title>
5      <meta charset="utf-8">
6      <meta name="viewport" content="width=device-width, initial-scale=1">
7      <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
8      <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
9      <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
10 </head>
11 <body>
12
13 <div class="container">
14     <h1>Image Gallery</h1>
15     <div class="row">
16         <div class="col-sm-4">
17             <div class="thumbnail">
18                 <a href="#" target="_blank"></a>
19                 
20                 <div class="caption">
21                     <pre>
22                         - 11th Gen Intel Core i5-1135G7
23                         - RAM : 16GB | 512GB (M.2-SSD)
24                         - 14" FHD (1920*1080) IPS
25                         - Built-in Stereo Speakers x 2
26                         - Up to 8.5 hours of battery life
27                         - Windows 10 License
28                         - 1.5Kg | Black | CPO (Wa. 6months)
29                         - Code: UR2710U520B3-D30
30                     </pre>
31                 </div>
32             </div>
33         </div>
34         <div class="col-sm-4">
35             <div class="thumbnail">
36                 <a href="#" target="_blank"></a>
37                 
38                 <div class="caption">
39                     <pre>
40                         - 11th Gen Intel Core i5-1135G7
41                         - RAM : 16GB | 512GB (M.2-SSD)
42                         - 14" FHD (1920*1080) IPS
43                         - Built-in Stereo Speakers x 2
44                         - Up to 8.5 hours of battery life
45                         - Windows 10 License
46                         - 1.5Kg | Black | CPO (Wa. 6months)
47                         - Code: UR2710U520B3-D30
48                     </pre>
49                 </div>
50             </div>
51         </div>
52         <div class="col-sm-4">
53             <div class="thumbnail">
54                 <a href="#" target="_blank"></a>
55                 
56                 <div class="caption">
57                     <pre>
58                         - 11th Gen Intel Core i5-1135G7
59                         - RAM : 16GB | 512GB (M.2-SSD)
60                         - 14" FHD (1920*1080) IPS
61                         - Built-in Stereo Speakers x 2
62                         - Up to 8.5 hours of battery life
63                         - Windows 10 License
64                         - 1.5Kg | Black | CPO (Wa. 6months)
65                         - Code: UR2710U520B3-D30
66                     </pre>
67                 </div>
68             </div>
69         </div>
70     </div>
71 
```

លទ្ធផលទទួលបាន៖

Image Gallery



ବ୍ୟାକାଣ୍ଡମନ୍ତ୍ରିତକ୍ଷଣୀ ୧



ପ୍ରକାଶମନ୍ୟତାବଳୀ ୨



ORIGINAL (COMPANY)

Gateway Ultra Slim 14 (CPO)

\$599 \$579

- 11th Gen Intel Core i5-1135G7
- RAM : 16GB | **512GB (M.2-SSD)**
- **14" FHD (1920*1080) IPS**
- Built-in Stereo Speakers x 2
- Up to 8.5 hours of battery life
- **Windows 10 License**
- 1.5Kg | Black | CPO (Wa. 6months)
- Code: UR2710U520B3-D30



ORIGINAL (COMPANY)

ROG Strix G15 G512LI

\$1,099 \$999

- Intel i7-10750H 2.60GHz Max 5.0GHz
- RAM : 8GB (DDR4) = 16GB = \$50
- Storage : **512GB SSD PCIe = 1TB = \$90**
- **15.6" FHD (1920 x 1080), IPS 144Hz**
- VGA : NVIDIA GTX 1650Ti 4GB
- **One Zone RGB lighting Key**
- Windows 10 License
- 66WHrs, 4S1P, 4-cell Li-ion Battery
- 2.3 Kg | Color : Electro Punk
- Code: UH2307U1000B1-D35



1899\$



579\$

- 11th Gen Intel Core i5-1135G7
- RAM : 16GB | **512GB (M.2-SSD)**
- **14" FHD (1920*1080) IPS**
- Built-in Stereo Speakers x 2
- Up to 8.5 hours of battery life
- **Windows 10 License**
- 1.5Kg | Black | CPO (Wa. 6months)
- Code: UR2710U520B3-D30



999\$



1,899\$

- Intel i7-10750H 2.60GHz Max 5.0GHz
- RAM : 8GB (DDR4) = 16GB = \$50
- Storage : **512GB SSD PCIe = 1TB = \$90**
- **15.6" FHD (1920 x 1080), IPS 144Hz**
- VGA : NVIDIA GTX 1650Ti 4GB
- **One Zone RGB lighting Key**
- Windows 10 License
- 66WHrs, 4S1P, 4-cell Li-ion Battery
- 2.3 Kg | Color : Electro Punk
- Code: UH2307U1000B1-D35

- 3.30GHz Ryzen 9 5900HX 8-Core
- RAM : 16GB | **1TB SSD PCIe**
- **17.3" (1920*1080) 300Hz Adaptive-Sync**
- VGA 1 : AMD Radeon Graphics
- VGA 2 : **NVIDIA RTX 3060 6GB**
- **Aura Sync (Light Bar, Logo , Bezel Glow)**
- Windows 10 License
- 2.7 Kg | Color : Black
- Code: I1204I2149B2

Contact us: 096 226 888 4/ 077 35 888 4/

Fb: facebook.com/គ្រួសាយដឹកជញ្ជូន



VI. នគរបៀវត្សទំ responsive menu /Bootstrap Navigation Bar

ការរៀបចំនូវ menu តូវរៀងរាល់នូវប្រភេទ ពាយិជ្ជកម្ម

❖ Nav Menus : គីណប្រភេទ Menu ដែកត្រួតពិនិត្យនៅលើកម្ពស់

ឧចាបរណ៍ ទេ

```
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 href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.2/dist/css/bootstrap.min.css" rel="stylesheet">
8   <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.2/dist/js/bootstrap.bundle.min.js"></script>
9 </head>
10 <body>
11
12 <div class="container">
13   <h1>Navigation menu</h1>
14   <p>Basic horizontal menu:</p>
15   <ul class="nav">
16     <li class="nav-item">
17       <a class="nav-link" href="#">Home</a>
18     </li>
19     <li class="nav-item">
20       <a class="nav-link" href="#">About</a>
21     </li>
22     <li class="nav-item">
23       <a class="nav-link" href="#">Contact</a>
24     </li>
25     <li class="nav-item">
26       <a class="nav-link disabled" href="#">ETEC View</a>
27     </li>
28   </ul>
29 </div>
30
31 </body>
32 </html>
```

ផលិតផលនៃកម្រិតបណ្តុះបណ្តាល៖

Navigation menu

Basic horizontal menu:

Home About Contact ETEC View



ឧចាបករណ៍ ៤៩

```
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 href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.2/dist/css/bootstrap.min.css" rel="stylesheet">
8   <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.2/dist/js/bootstrap.bundle.min.js"></script>
9 </head>
10 <body>
11
12 <div class="container">
13   <h1>Navigation menu</h1>
14   <p>Basic horizontal menu:</p>
15   <ul class="nav nav-pills">
16     <li class="nav-item">
17       <a class="nav-link active" href="#">Active</a>
18     </li>
19     <li class="nav-item">
20       <a class="nav-link" href="#">About</a>
21     </li>
22     <li class="nav-item">
23       <a class="nav-link" href="#">Contact</a>
24     </li>
25     <li class="nav-item">
26       <a class="nav-link active" href="#">ETEC CENTER</a>
27     </li>
28   </ul>
29 </div>
30
31 </body>
32 </html>
```

ផ្នែកនេះទូទាត់ជាមួយ

Navigation menu

Basic horizontal menu:

Active About Contact ETEC CENTER



ឧចាបារណ៍ នាំ របៀបដែលត្រូវ Menu 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 <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>
```

ETEC I.T Training Center Home About Contact Download

លទ្ធផលនេះ

Inverted Navbar

Write Something



ឧចាបារណ៍ ទៅ របៀបបង្កើតនូវ Menu 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 href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.2/dist/css/bootstrap.min.css" rel="stylesheet">
8   <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.2/dist/js/bootstrap.bundle.min.js"></script>
9 </head>
10 <body>
11
12 <div class="container">
13   <h2>Welcome to Dropdown bootstrap</h2>
14   <ul class="nav nav-pills">
15     <li class="nav-item">
16       <a class="nav-link active" href="#">ទំនាក់ដៃម៉ោង</a>
17     </li>
18     <li class="nav-item dropdown">
19       <a class="nav-link dropdown-toggle" data-bs-toggle="dropdown" href="#">ទាញយក</a>
20       <ul class="dropdown-menu">
21         <li><a class="dropdown-item" href="#">មេអ្នកទី១</a></li>
22         <li><a class="dropdown-item" href="#">មេអ្នកទី២</a></li>
23         <li><a class="dropdown-item" href="#">មេអ្នកទី៣</a></li>
24
25       </ul>
26     </li>
27     <li class="nav-item">
28       <a class="nav-link" href="#">សំគាល់យើង</a>
29     </li>
30     <li class="nav-item">
31       <a class="nav-link disabled" href="#">ទំនាក់ទំនង</a>
32     </li>
33   </ul>
34 </div>
35
36 </body>
```

លទ្ធផលទឹកប្រាកាស

Welcome to Dropdown bootstrap

ទំនាក់ដៃម៉ោង ទាញយក ▾ សំគាល់យើង ទំនាក់ទំនង

មេអ្នកទី១

មេអ្នកទី២

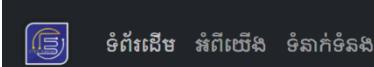
មេអ្នកទី៣



ឧទាហរណ៍ ៥

```
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 href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.2/dist/css/bootstrap.min.css" rel="stylesheet">
8   <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.2/dist/js/bootstrap.bundle.min.js"></script>
9 </head>
10 <body>
11   <nav class="navbar navbar-expand-sm navbar-dark bg-dark">
12     <div class="container-fluid">
13       <a class="navbar-brand" href="#"></a>
14       <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#mynavbar">
15         <span class="navbar-toggler-icon"></span>
16       </button>
17       <div class="collapse navbar-collapse" id="mynavbar">
18         <ul class="navbar-nav me-auto">
19           <li class="nav-item">
20             <a class="nav-link" href="javascript:void(0)">ទីតាំងផ្លូវ</a>
21           </li>
22           <li class="nav-item">
23             <a class="nav-link" href="javascript:void(0)">អំពើយើង</a>
24           </li>
25           <li class="nav-item">
26             <a class="nav-link" href="javascript:void(0)">ទំនាក់ទំនង</a>
27           </li>
28         </ul>
29         <form class="d-flex">
30           <input class="form-control me-2" type="text" placeholder="Search">
31           <button class="btn btn-primary" type="button">ស្អើអង់កែ</button>
32         </form>
33       </div>
34     </div>
35   </nav>
36   <div class="container-fluid mt-3">
37     <h3>Contents</h3>
38     <p>You can also include forms inside the navigation bar.</p>
39   </div>
40 </body>
41 </html>
```

លទ្ធផលទឹកប្រាក់



Search

ផ្សេងៗ

Contents

You can also include forms inside the navigation bar.



ឧទ្ទាហរណ៍ ៦៩

```
1  <!DOCTYPE html>
2  <html>
3  <meta name="viewport" content="width=device-width, initial-scale=1">
4  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css"
5  >
6  <style>
7  body {font-family: Arial, Helvetica, sans-serif;}
8
9  .navbar {
10    width: 100%;
11    background-color: #555;
12    overflow: auto;
13  }
14
15  .navbar a {
16    float: left;
17    padding: 12px;
18    color: white;
19    text-decoration: none;
20    font-size: 17px;
21  }
22
23  .navbar a:hover {
24    background-color: #000;
25  }
26
27  .active {
28    background-color: #04AA6D;
29  }
30  </style>
31  <body>
32    <h2>Responsive Navigation Bar with Icons</h2>
33    <p>Try to resize the browser window to see the responsive effect.</p>
34    <div class="navbar">
35      <a class="active" href="#"><i class="fa fa-fw fa-home"></i> Home</a>
36      <a href="#"><i class="fa fa-fw fa-search"></i> Search</a>
37      <a href="#"><i class="fa fa-fw fa-envelope"></i> Contact</a>
38      <a href="#"><i class="fa fa-fw fa-user"></i> Login</a>
39    </div>
40
41  </body>
42  </html>
43
```

Responsive Navigation Bar with Icons

Try to resize the browser window to see the responsive effect.

លទ្ធផលទឹកប្រាក់

[Home](#) [Search](#) [Contact](#) [Login](#)

វេជ្ជរាជអនុបត្រផ្លូវ



ហាមមនសរមយបកទនេះ



សម្បុច ហិន សែន សីលីអាម្ចាយរក្សា
កត់ពាន់-ខេតុ នុញ្ញនាក់មានការរើប...



Obioha Okereke ក្រុមបុយទេសចរណ៍ ឲ្យពីនិងសំគាល់បុន្ណោះត្រូវបានប្រាប់ពីក្រុមចាប់ពីថ្ងៃទាំងនេះដល់មួយចាប់ពីថ្ងៃទាំងនេះ



เส้นทางการเดินทางของ Tesla กับ Elon Musk



ជំណើងល្អ រាយកិច្ចាលនឹងសាខសម្រាតផ្លូវ
យោប់យកត្រួតពីរដ្ឋានទីផ្សារទាំងឡាយ



ក្រុនចាត់ថែងលូយទូរលូយកីន



ក្នុងដីកត្តកំណក់ហើយ! អូកខទនមិនបានបង់



កំណើងស្ថាបន្ទីរទៅ មកដីនខេត្តកណ្តាល



ចំនាយកចំនួនយកការ BUSINESS CAMBODIA

- HOTLINE: +855 (0) 89 666 503 | +855 (0) 88 666 0503
 - ផ្លូវកម្មស្ថាបន (+855) 17 300 755 / 093 300 755
 - ផ្លូវកម្មសំខាន់ (+855) 16 300 843 / 017 300 844
 - ផ្លូវកម្មសំខាន់ (+855) 92 57 58 23

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 - > ກາດຕາມຸກສຶກທຳ
 - > ເພື່ອໃຈກ

VII. នោយទឹកល្អត form responsive

ទាំងអស់ការបនា Web form របស់ bootstrap ដោយគ្រាន់តែយក Class ដែលមានស្រាប់មកប្រើប្រាស់តាមលក្ខណៈដម្ពត់ ដើម្បីជួយ <input>, <textarea> <select> ។ នៅក្នុង bootstrap វាជានកំណត់នូវ Layout ព្រមទាំងធ្វើដំឡើងជាផ្លូវការ

- ❖ Vertical form (this is default)

ឧបាទរណ៍

```
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/3.4.1/css/bootstrap.min.css">
8    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
9    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
10   </head>
11   <body>
12
13  <div class="container">
14    <h2>Vertical (basic) form</h2>
15  <form action="#">
16    <div class="form-group">
17      <label for="email">Email:</label>
18      <input type="email" class="form-control" id="email" placeholder="Enter email" name="email">
19    </div>
20    <div class="form-group">
21      <label for="pwd">Password:</label>
22      <input type="password" class="form-control" id="pwd" placeholder="Enter password" name="pwd">
23    </div>
24    <div class="checkbox">
25      <label><input type="checkbox" name="remember"> Remember me</label>
26    </div>
27    <button type="submit" class="btn btn-default">Submit</button>
28  </form>
29 </div>
30
31 </body>
32 </html>
33
```

លទ្ធផលទទួលទាន់

Bootstrap Vertical Form (default)

Email:

Password:

Remember me

Submit



❖ Horizontal form

ឧទាហរណ៍

```
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/3.4.1/css/bootstrap.min.css">
8      <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
9      <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/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             </div>
38         </div>
39     </form>
40 </div>
41 </body>
```

លទ្ធផលនេះជាបាន:

Bootstrap Horizontal Form

| | |
|---------------------------------------|---|
| Email: | <input type="text" value="Enter email"/> |
| Password: | <input type="password" value="Enter password"/> |
| <input type="checkbox"/> Remember me | |
| <input type="button" value="Submit"/> | |



❖ Inline form

```
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/3.4.1/css/bootstrap.min.css">
8      <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
9      <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
10     </head>
11     <body>
12         <div class="container">
13             <h2>Inline form</h2>
14             <p>Make the viewport larger than 768px wide to see that all of the form elements are inline, left aligned, and alongside.</p>
15             <form class="form-inline" action="/action_page.php">
16                 <div class="form-group">
17                     <label for="email">Email:</label>
18                     <input type="email" class="form-control" id="email" placeholder="Enter email" name="email">
19                 </div>
20                 <div class="form-group">
21                     <label for="pwd">Password:</label>
22                     <input type="password" class="form-control" id="pwd" placeholder="Enter password" name="pwd">
23                 </div>
24                 <div class="checkbox">
25                     <label><input type="checkbox" name="remember"> Remember me</label>
26                 </div>
27                 <button type="submit" class="btn btn-default">Submit</button>
28             </form>
29         </div>
30     </body>
31     </html>
```

លទ្ធផលទឹកបញ្ជានេះ

Bootstrap Inline Form

Email: Password: Remember me



ឧចាបារណ៍ ទៅរបៀបបង្កើតនូវ Form លក្ខណៈជារៀបចំ

| CSS Class | Description | Remarks |
|-------------------------|-----------------------------|--|
| .form-group | Used to group form controls | |
| .form-control | Text inputs | It can be a text, password, date, time, etc. |
| .form-control-file | File Upload | |
| .form-check | Checkbox and radio button | |
| .form-check-input | Input element class | For checkbox and radio button |
| .form-check-label | Text label class | For checkbox and radio button |
| .form-control-lg | Larger form elements | |
| .form-control-sm | Smaller form elements | |
| .form-control-plaintext | Plain text input | Used for read only input elements |

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <!-- Meta Tags for Bootstrap 5 -->
5 <meta charset="utf-8">
6 <meta name="viewport" content="width=device-width, initial-scale=1">
7 <!-- Bootstrap 5 CSS -->
8 <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.1/dist/css/bootstrap.min.css" rel="stylesheet">
9 </head>
10 <body>
11   <h1><center>Class Form bootstrap </center></h1>
12   <hr />
13 <!-- Start of Form -->
14 <div class="container">
15 <form>
16 <!-- 1. Text Input -->
17   <div class="form-group">
18     <label for="username">Enter Username</label>
19     <input type="text" class="form-control" id="username" aria-describedby="Username" placeholder="Enter Username">
20     <small id="Username" class="form-text text-muted">Enter username to login.</small>
21   </div>
22 <!-- 2. Password -->
23   <div class="form-group">
24     <label for="password">Enter Password</label>
25     <input type="password" class="form-control" id="password" placeholder="Password">
26   </div>
```



```
27 <!-- 3. Single Select -->
28 <div class="form-group">
29 <label for="singleselect">Single Select from the Dropdown</label>
30 <select class="form-control" id="singleselect">
31 <option>Option 1</option>
32 <option>Option 2</option>
33 </select>
34 </div>
35 <!-- 4. Multiple Select -->
36 <div class="form-group">
37 <label for="multipleselect">Multiple Select from List</label>
38 <select multiple class="form-control" id="multipleselect">
39 <option>Option 1</option>
40 <option>Option 2</option>
41 </select>
42 </div>
43 <!-- 5. Textarea -->
44 <div class="form-group">
45 <label for="textarea">Textarea Input</label>
46 <textarea class="form-control" id="textarea" rows="5"></textarea>
47 </div>
48 <!-- 6. File Upload -->
49 <div class="form-group">
50 <label for="fileupload">Upload File</label>
51 <input type="file" class="form-control-file" id="fileupload" aria-describedby="fileupload">
52 <small id="fileupload" class="form-text text-muted">Choose the file from your computer and the browse screen
depends on your operating system.</small>
53 </div>
54 <!-- 7. Radio Buttons -->
55 <fieldset class="form-group">
56 <legend>Radio Buttons</legend>
57 <div class="form-check">
58 <label class="form-check-label">
59 <input type="radio" class="form-check-input" name="radio" id="radio1" value="Option 1" checked>
60 Option 1</label>
61 </div>
62 <div class="form-check">
63 <label class="form-check-label">
64 <input type="radio" class="form-check-input" name="radio" id="radio2" value="Option 2">
65 Option 2 </label>
66 </div>
67 <div class="form-check disabled">
68 <label class="form-check-label">
69 <input type="radio" class="form-check-input" name="radio" id="radio3" value="Option 3" disabled>
70 Option 3</label>
71 </div>
72 </fieldset>
73 <!-- 8. Checkbox -->
74 <fieldset class="form-group">
75 <div class="form-check">
76 <label class="form-check-label">
77 <input type="checkbox" class="form-check-input">
78 This is a checkbox 1.
79 </label>
80 </div>
81 <div class="form-check">
82 <label class="form-check-label">
83 <input type="checkbox" class="form-check-input">
84 This is a checkbox 2.
85 </label>
86 </div>
87 <div class="form-check">
88 <label class="form-check-label">
89 <input type="checkbox" class="form-check-input">
90 This is a checkbox 3.
91 </label>
92 </div>
93 </fieldset>
94 <!-- 9. Submit Button-->
95 <button type="submit" class="btn btn-success">Submit</button>
96 </form>
97 </div>
98 </body>
99 </html>
```



Class Form bootstrap

ឯកសារបង្កើតរបៀបបង្កើតនូវ Form លក្ខណៈជារៀបចំ

Enter Username

Enter username to login.

Enter Password

Single Select from the Dropdown

Multiple Select from List

Textarea Input

Upload File No file chosen
Choose the file from your computer and the browse screen depends on your operating system.

Radio Buttons
 Option 1
 Option 2
 Option 3
 This is a checkbox 1.
 This is a checkbox 2.
 This is a checkbox 3.

ឧទាហរណ៍ ២៩ របៀបបង្កើតនូវ Form លក្ខណៈជារៀបចំ

```
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>
```

លទ្ធផលនៃកម្រិតបញ្ជី

Employee Information

Input Code:

Input Name:

Select list (select one):

Address:

Phnom Penh Kanda Siem Reap

Comment:

Submit Reset

Link ទាញយក Icon នៃ Bootstrap

<https://getbootstrap.com/docs/5.0/extend/icons/>

VIII. ឧបនគ្គ Slide Animation នៃការងារ bootstrap

បំពេជ់ការងារ Animation slide show ឬ ហេតុ Carousel យើងអាចងារជីវិត Slide

ប្រើប្រាស់ការណាន់មានបច្ចេកទេស Class មានស្រាប់របស់ Bootstrap វិញ្ញាប។

ឧបាទាងទី ១

```
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/3.4.1/css/bootstrap.min.css">
8   <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
9   <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/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         
27       </div>
28
29       <div class="item">
30         
31       </div>
32
33       <div class="item">
34         
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>
```

ធម្មជនជាទុកណែនាំ

Carousel Example



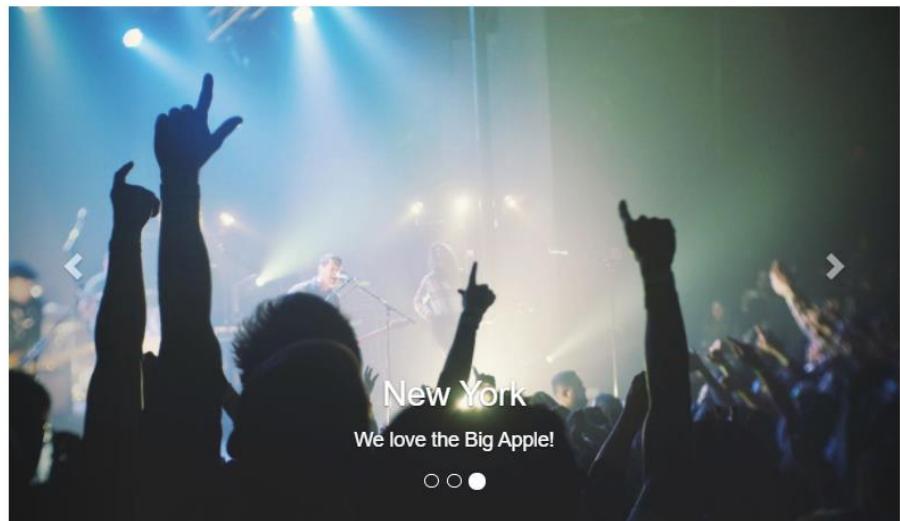
ឧបាទាន់ ១

```
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/3.4.1/css/bootstrap.min.css">
8      <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
9      <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/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
26             <div class="item active">
27                 
28                 <div class="carousel-caption">
29                     <h3>Los Angeles</h3>
30                     <p>LA is always so much fun!</p>
31                 </div>
32             </div>
33
34             <div class="item">
35                 
36                 <div class="carousel-caption">
37                     <h3>Chicago</h3>
38                     <p>Thank you, Chicago!</p>
39                 </div>
40             </div>
41
42         </div>
43     </div>
```

```
41
42     <div class="item">
43         
44         <div class="carousel-caption">
45             <h3>New York</h3>
46             <p>We love the Big Apple!</p>
47         </div>
48     </div>
49
50     </div>
51
52     <!-- Left and right controls -->
53     <a class="left carousel-control" href="#myCarousel" data-slide="prev">
54         <span class="glyphicon glyphicon-chevron-left"></span>
55         <span class="sr-only">Previous</span>
56     </a>
57     <a class="right carousel-control" href="#myCarousel" data-slide="next">
58         <span class="glyphicon glyphicon-chevron-right"></span>
59         <span class="sr-only">Next</span>
60     </a>
61 </div>
62 </div>
63
64 </body>
65 </html>
```

Carousel Example

លទ្ធផលទឹកបាន៖

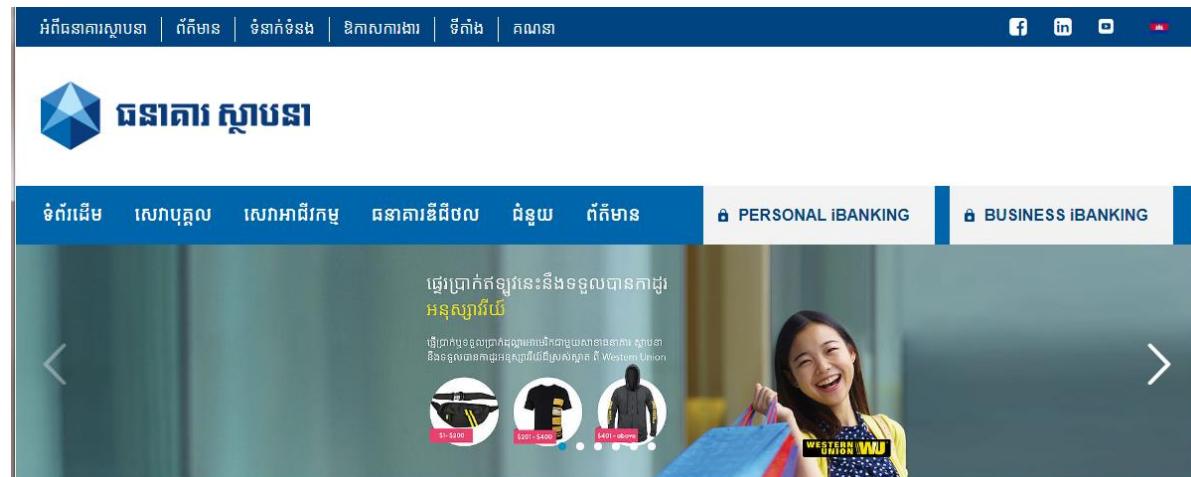


ស្ថិតិថ្លែងទីនេះ reference នេះទេ

<https://getbootstrap.com/docs/5.0/components/carousel/>

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

ବ୍ୟାକାଣ୍ଡମନ୍ତ୍ରିତଙ୍କାରୀ ୧



Account

- View Various Account and Transaction detail
 - View and Download statement up to 6 months

Corporate Credit Card

"Coming Soon"

- Credit Card Summary and View Transaction Detail
 - View Credit Card Statement
 - Credit Card Payment
 - Card Activation/Block/Unblock

Transfer

"Coming Soon"

- Own Account Fund Transfer
 - Within Bank Fund Transfer
 - Other Bank and to any FAST Participate Banks
 - Oversea Fund Transfer
 - Transfer Fund to Partner Payment Service Providers (PSP)

A blue circular icon containing a white line drawing of a hand holding an open book.

Bill Payment

"Coming Soon"

- Bill Payment to Water Supplier, EDC, Internet and Fee School
 - Pay Bill to Various Participating Billing Companies

| My Best Buy › | Orders & Returns › | Support & Services › | Partnerships › |
|--|---|------------------------------------|------------------------------------|
| View Points & Certificates | Order Status | Customer Service | Affiliate Program |
| Member Offers | Shipping, Delivery & Store Pickup | Protection Plans | Developers |
| Sign in or Create Account | Return & Exchange Promise | Schedule a Service | Best Buy Education |

ବ୍ୟାକାଣ୍ଡମନ୍ତ୍ରିତଙ୍କାନ୍ ୨