



# LAB MODULE 8 CSF3133 – Web-based Interface Design

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### 8.3 Create First Web Page with Bootstrap

Output:

The screenshot shows a website with a dark header bar containing the text "My Website" and navigation links for "Home", "About", "Services", and "Contact". The main content area has a light gray background. It features a section titled "Welcome to My Website" with the subtitle "Professional IT consulting services". Below this is an "About Us" section with a brief description. The "Our Services" section lists four items: "IT Strategy and Planning", "Cloud Computing", "Cybersecurity Consulting", and "Software Development". The "Contact Us" section includes fields for "Name", "Email", and "Message", followed by a "Submit" button. At the bottom of the page is a dark footer bar with the copyright notice "© 2024 FutureTech Solutions. All rights reserved."

### 8.5 Bootstrap Text/Typography

#### 8.5.1 Headings

Output:

The screenshot displays a series of large, bold headings from "Heading 1" down to "Heading 6", each in a different color: Heading 1 is dark blue, Heading 2 is orange, Heading 3 is dark red, Heading 4 is yellow, Heading 5 is purple, and Heading 6 is teal. The headings are arranged vertically within a white rectangular container.

### **8.5.2 Display Headings**

Output:

Display 1  
Display 2  
Display 3  
Display 4  
Display 5  
Display 6

### **8.5.3 Inline Text Elements**

Output:

Left-aligned text.  
Center-aligned text.  
Right-aligned text.

### **8.5.4 Text Color and Background**

Output:

Primary colored text.  
Text with background color.

### 8.5.5 Text Wrapping and Overflow

Output:

This text will not wrap.

This text will truncate if it i...

ThisIsAReallyLongWordThatWillBreakOntoANewLine.

### 8.5.6 Font Size

Output:

Large text

Medium text

Small text

### 8.5.7 Font Weight and Style

Output:

**Bold text**

*Light and italic text*

### 8.5.8 Line Height

Output:

This text has a larger line height.

### 8.5.9 Lists

Output:

Item 1

Item 2

Item 1 Item 2

## 8.6 Bootstrap CSS Forms

### 8.6.1 Basic Form Structure

Output:

A screenshot of a basic Bootstrap form. It contains two input fields: one for 'Email address' containing 'name@example.com' and another for 'Password'. Below the password field is a blue 'Submit' button.

### 8.6.2 Form Layouts

Output:

A screenshot of a form with two input fields side-by-side: 'Email' and 'Password'. Below these fields is a blue 'Submit' button.

### 8.6.3 Inline Forms

Output:

A screenshot of an inline form consisting of a single input field labeled 'Search' with a small 'Search' button to its right.

### 8.6.4 Form Controls

Output:

A screenshot of a form control example featuring a large text area labeled 'Example Textarea'.

## 8.6.5 Select Menus

Output:

A screenshot of a dropdown menu titled "Select Example". The menu contains four options: "Option 1" (selected), "Option 2", and "Option 3". The "Option 1" option is highlighted with a blue background.

## 8.6.6 Form Validation

Output:

A screenshot of a form validation interface. It includes fields for "Username" (containing "Correct Input" with a green checkmark) and "Password" (empty with a red error icon). Below the password field is an error message: "Please choose a stronger password." A "Submit" button is at the bottom.

## 8.6.7 Checkboxes and Radios

Output:

A screenshot of a form group containing three items: a checkbox labeled "Check me out", a radio button labeled "Option 1" (selected), and a radio button labeled "Option 2".

## 8.6.8 Input Groups

Output:

A screenshot of an input group. It features a label "Username" positioned above a text input field. To the left of the input field is a placeholder "@".

## 8.6.9 Floating Labels

Output:

A screenshot of an input field. The label "Email address" is placed directly above the input field, which is currently empty. A vertical line is present inside the input field.

### **8.6.10 Disabled and Readonly Input**

Output:

Disabled input

Readonly input

### **8.6.11 Example Forms**

Output:

Email address  
name@example.com

Password

Remember me

Submit

## 8.7 Using Bootstrap Theme

Default output:

[My Theme](#)

# Welcome to My Themed Website

This is an example of a page styled with a Bootstrap theme.

Themed output:

# Welcome to My Themed Page

Using a Tailwind theme

## About

This theme gives a fresh and modern look to your website.



## 8.8 Lab Exercise 8

Source Code:

index.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>FutureTech Solutions</title>
  <script src="https://cdn.tailwindcss.com"></script>
</head>
<body>
<nav class="bg-blue-600 text-white">
  <div class="max-w-7xl mx-auto px-4 py-3 flex justify-between">
    <h1 class="text-xl font-bold">FutureTech Solutions</h1>
    <div class="space-x-4">
      <a href="#">Home</a>
      <a href="#">About</a>
      <a href="#">Services</a>
      <a href="#">Contact</a>
    </div>
  </div>
</nav>
<header class="bg-gray-100 py-16 text-center" style="background-image: url(bg3.jpg);">
  <h2 class="text-4xl font-bold mb-4">Empowering Your Digital Future</h2>
  <p class="text-600 max-w-xl mx-auto">
    We provide professional IT consulting services to help businesses grow with technology.
  </p>
</header>
<section class="max-w-7xl mx-auto px-4 py-12 grid md:grid-cols-3 gap-6">
  <div class="bg-white p-6 shadow rounded">
    <h3 class="font-semibold text-lg">Expert Consultants</h3>
    <p class="text-gray-600">Experienced professionals in modern IT solutions.</p>
  </div>
  <div class="bg-white p-6 shadow rounded">
    <h3 class="font-semibold text-lg">Innovative Solutions</h3>
    <p class="text-gray-600">Cutting-edge technology tailored to your business.</p>
  </div>
  <div class="bg-white p-6 shadow rounded">
    <h3 class="font-semibold text-lg">Reliable Support</h3>
    <p class="text-gray-600">Dedicated technical support and maintenance.</p>
  </div>
</section>
</body>
</html>
```

## about.html:

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>FutureTech Solutions</title>
7      <script src="https://cdn.tailwindcss.com"></script>
8  </head>
9  <body>
10     <nav class="bg-blue-600 text-white">
11         <div class="max-w-7xl mx-auto px-4 py-3 flex justify-between items-center">
12             <h1 class="text-xl font-bold">FutureTech Solutions</h1>
13             <div class="space-x-4">
14                 <a href="index.html" class="hover:underline">Home</a>
15                 <a href="about.html" class="hover:underline">About</a>
16                 <a href="services.html" class="hover:underline">Services</a>
17                 <a href="contact.html" class="hover:underline">Contact</a>
18             </div>
19         </div>
20     </nav>
21     <section class="max-w-4xl mx-auto py-12 px-4">
22         <h2 class="text-3xl font-bold mb-4">About Us</h2>
23         <p class="text-gray-600 mb-4">
24             Futuretech Solutions is a technology consulting startup focused on
25             helping businesses achieve digital transformation.
26         </p>
27         <details class="bg-gray-100 p-4 rounded">
28             <summary class="font-semibold cursor-pointer">
29                 Read more about our mission and vision
30             </summary>
31             <p class="mt-3 text-gray-600">
32                 Our mission is to empower organizations through innovative IT solutions,
33                 ensuring scalability, security, and long-term success.
34             </p>
35             <p class="mt-2 text-gray-600">
36                 Our vision is to become a trusted technology partner for businesses
37                 worldwide by delivering reliable, modern, and sustainable digital systems.
38             </p>
39         </details>
40     </section>
41     </body>
42 </html>
```

## services.html:

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>FutureTech Solutions</title>
7      <script src="https://cdn.tailwindcss.com"></script>
8  </head>
9  <body>
10     <nav class="bg-blue-600 text-white">
11         <div class="max-w-7xl mx-auto px-4 py-3 flex justify-between items-center">
12             <h1 class="text-xl font-bold">FutureTech Solutions</h1>
13             <div class="space-x-4">
14                 <a href="index.html" class="hover:underline">Home</a>
15                 <a href="about.html" class="hover:underline">About</a>
16                 <a href="services.html" class="hover:underline">Services</a>
17                 <a href="contact.html" class="hover:underline">Contact</a>
18             </div>
19         </div>
20     </nav>
21     <section class="max-w-5xl mx-auto py-12 px-4">
22         <h2 class="text-3xl font-bold mb-6">Our Services</h2>
23         <details class="mb-4 bg-white shadow p-4 rounded">
24             <summary class="font-semibold cursor-pointer">
25                 IT Consulting & Strategy
26             </summary>
27             <p class="mt-3 text-gray-600">
28                 We help businesses plan and implement effective IT strategies
29                 aligned with their goals.
30             </p>
31         </details>
32         <details class="mb-4 bg-white shadow p-4 rounded">
33             <summary class="font-semibold cursor-pointer">
34                 Cloud Computing Solutions
35             </summary>
36             <p class="mt-3 text-gray-600">
37                 Secure and scalable cloud services including migration,
38                 deployment, and management.
39             </p>
40         </details>
41         <details class="mb-4 bg-white shadow p-4 rounded">
42             <summary class="font-semibold cursor-pointer">
43                 Cybersecurity Services
44             </summary>
45             <p class="mt-3 text-gray-600">
46                 Protect your digital assets with our advanced security
47                 assessment and monitoring solutions.
48             </p>
49         </details>
50         <details class="mb-4 bg-white shadow p-4 rounded">
51             <summary class="font-semibold cursor-pointer">
52                 Software Development
53             </summary>
54             <p class="mt-3 text-gray-600">
55                 Custom software solutions designed to improve efficiency
56                 and enhance customer experience.
57             </p>
58         </details>
59     </section>
60 </body>
61 </html>
```

**contact.html:**

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>FutureTech Solutions</title>
7      <script src="https://cdn.tailwindcss.com"></script>
8  </head>
9  <body>
10     <nav class="bg-blue-600 text-white">
11         <div class="max-w-7xl mx-auto px-4 py-3 flex justify-between items-center">
12             <h1 class="text-xl font-bold">FutureTech Solutions</h1>
13             <div class="space-x-4">
14                 <a href="index.html" class="hover:underline">Home</a>
15                 <a href="about.html" class="hover:underline">About</a>
16                 <a href="services.html" class="hover:underline">Services</a>
17                 <a href="contact.html" class="hover:underline">Contact</a>
18             </div>
19         </div>
20     </nav>
21     <section class="max-w-xl mx-auto py-12 px-4">
22         <h2 class="text-3xl font-bold mb-6">Contact Us</h2>
23         <form class="space-y-4">
24             <input type="text" placeholder="Your Name"
25                 class="w-full border p-2 rounded">
26             <input type="email" placeholder="Email Address"
27                 class="w-full border p-2 rounded">
28             <textarea placeholder="Your Message"
29                 class="w-full border p-2 rounded"></textarea>
30             <button class="bg-blue-600 text-white px-4 py-2 rounded">Submit</button>
31         </form>
32     </section>
33 </body>
34 </html>
```

Output:

Home page:

FutureTech Solutions

Home About Services Contact

## Empowering Your Digital Future

We provide professional IT consulting services to help businesses grow with technology.

**Expert Consultants**  
Experienced professionals in modern IT solutions.

**Innovative Solutions**  
Cutting-edge technology tailored to your business.

**Reliable Support**  
Dedicated technical support and maintenance.

About page:

FutureTech Solutions

Home About Services Contact

## About Us

FutureTech Solutions is a technology consulting startup focused on helping businesses achieve digital transformation.

▼ Read more about our mission and vision

Our mission is to empower organizations through innovative IT solutions, ensuring scalability, security, and long-term success.

Our vision is to become a trusted technology partner for businesses worldwide by delivering reliable, modern, and sustainable digital systems.

## Services page:

The screenshot shows a website for "FutureTech Solutions". The header is blue with the company name "FutureTech Solutions" on the left and navigation links "Home", "About", "Services", and "Contact" on the right. The main content area has a white background and features a section titled "Our Services" in bold black font. Below this, there are four expandable sections, each with a downward arrow icon and a title: "IT Consulting & Strategy", "Cloud Computing Solutions", "Cybersecurity Services", and "Software Development". Each section contains a brief description of the service.

**FutureTech Solutions**

Home About Services Contact

## Our Services

▼ IT Consulting & Strategy  
We help businesses plan and implement effective IT strategies aligned with their goals.

▼ Cloud Computing Solutions  
Secure and scalable cloud services including migration, deployment, and management.

▼ Cybersecurity Services  
Protect your digital assets with our advanced security assessment and monitoring solutions.

▼ Software Development  
Custom software solutions designed to improve efficiency and enhance customer experience.

## Contact page:

The screenshot shows a contact form on the "Contact Us" page of the website. The header is blue with the company name "FutureTech Solutions" on the left and navigation links "Home", "About", "Services", and "Contact" on the right. The main content area has a white background and features a section titled "Contact Us" in bold black font. Below this, there are three input fields: "Your Name", "Email Address", and "Your Message". A large text area for the message is followed by a "Submit" button at the bottom.

**FutureTech Solutions**

Home About Services Contact

## Contact Us

Your Name

Email Address

Your Message

Submit