



Vidyavardhini's College of Engineering and Technology

Department of Artificial Intelligence & Data Science

Experiment No. 3
Bootstrap: BootstrapGrid system, Forms, Button, Navbar, Breadcrumb, Jumbotron
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Date of Submission: 01/08/25
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Aim - Web Development using bootstrap

Objective -

- 1) To understand Bootstrap
- 2) Understand how to implement different functions of Bootstrap

Requirement -

1. An editor (Visual Studio Code)
2. Browser (Google Chrome)

Theory: Bootstrap is a free and open-source tool collection for creating responsive websites and web applications. It is the most popular HTML, CSS, and JavaScript framework for developing responsive, mobile-first websites. Nowadays, the websites are perfect for all the browsers.

Why do we use Bootstrap ?

- It is a Faster and Easier way for Web-Development.
- It creates Platform-independent web-pages.
- It creates Responsive Web-pages.
- It designed responsive web pages for mobile devices too.
- It is Free and open-source framework available on www.getbootstrap.com

Code:

```
<!DOCTYPE html>
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
```

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

```
  <title>Donation</title>
```

```
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.0/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
KyZXEAg3QhQLMpG8r+8fhAXLRk2vvoC2f3B09zVXn8CA5QIVfZ0J3BCsw2P0p/We"
crossorigin="anonymous">
```

```
</head>
```

```
<body style="background-color: cornflowerblue;">
```

```
<nav class="navbar navbar-expand-lg navbar-light bg-light" >
```



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```
<div class="collapse navbar-collapse" id="navbarSupportedContent" style="background-color: coral;">
```

```
<ul class="navbar-nav me-auto mb-2 mb-lg-0">
```

```
<li class="nav-item">
```

```
<a class="nav-link active" aria-current="page" href="boot1.html">Home</a>
```

```
</li>
```

```
<li class="nav-item">
```

```
<a class="nav-link" href="boot2.html">Form</a>
```

```
</li>
```

```
</ul>
```

```
</div>
```

```
</nav>
```

```
<div class="container">
```

```
<div class="row">
```

```
<div class="col-xl">
```

```
<h1>Vission</h1>
```

```
<h6>To be helpful to everyone </h6>
```

```
</div>
```

```
<div class="col-xl">
```

```
<h1> Mission</h1>
```

```
<h6>To help more and more people in need</h6>
```

```
</div>
```

```
<div class="col-xl">
```

```
<h1>About us </h1>
```

```
<h6>website takes unused clothes from people<br>
```

```
And donate it to needful ones</h6>
```

```
</div>
```



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</div>

</div>

```
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.0/dist/js/bootstrap.bundle.min.js"
integrity="sha384-
U1DAWAznBHeqEIIVSCgzq+c9gqGAJn5c/t99JyeKa9xxaYpSvHU5awsuZVVFIhvj"
crossorigin="anonymous"></script>
```

</body>

</html>

Second Page:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

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

<title>donations</title>

</head>

<body style="background-color: darksalmon;">

<nav class="navbar navbar-expand-lg navbar-light bg-light">

<div class="collapse navbar-collapse" id="navbarNavDropdown">

<ul class="navbar-nav">

<li class="nav-item">

Home

<li class="nav-item">

Form



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</nav>

<div class="jumbotron">

<h1 class="display-4">Survey Form!</h1>

<p class="lead">Enter your details so that we can contact you and do the needful </p>

</div>

<div class="form-container">

<form action="html/next.html" id="form">

<h2>Login</h2>

<div class="container">

<i class="fas fa-user"></i>

<input type="text" placeholder="username" />

<div class="container">

<i class="fas fa-at"></i>

<input type="email" placeholder="email" />

</div>

<div class="container">

<i class="fas fa-lock"></i>

<input type="text" placeholder="contact-no" />

</div>

<input type="submit" value="login" />

</class>

</form>

</div>

</body>

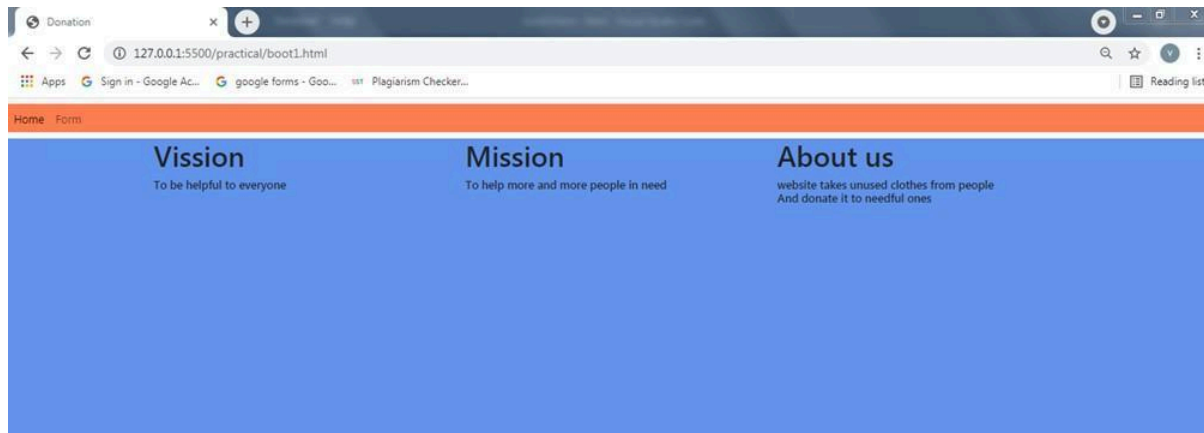
</html>



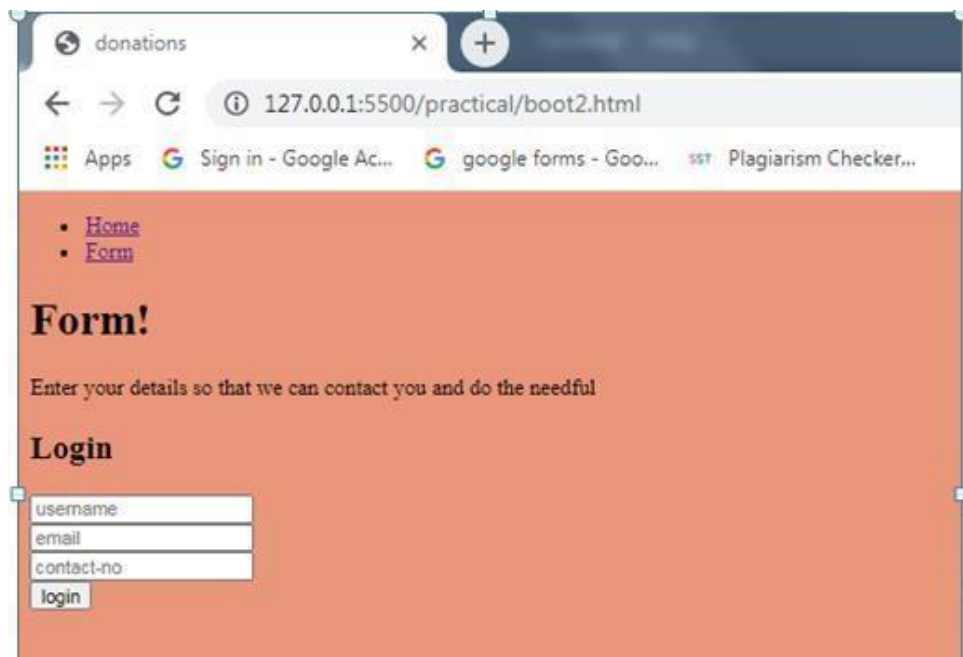
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Output:



Once clicked on the form, we go to another page.



Code:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8">
```

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

```
<title>Bootstrap Form with Navbar</title>
```



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<!-- Bootstrap CSS -->

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">

<style>
body {
background: linear-gradient(to right, #6a11cb,
#2575fc); min-height: 100vh;

font-family: Arial, sans-serif;

}

.form-container {
background:
#fff; padding:
30px;
border-radius:
12px;

box-shadow: 0 8px 20px rgba(0,0,0,0.2);
width: 100%;
max-width:
500px; margin:
50px auto;

}

.form-container
h2 { text-align:
center;
margin-bottom:
25px;

}

</style>

</head>

<body>

<!-- Navigation Bar -->

<nav class="navbar navbar-expand-lg navbar-dark bg-dark">

<div class="container">

MyWebsite

<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav">



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```
<span class="navbar-toggler-icon"></span>

</button>

<div class="collapse navbar-collapse" id="navbarNav">

  <ul class="navbar-nav ms-auto">

    <li class="nav-item">

      <a class="nav-link active" href="#">Home</a>

    </li>

    <li class="nav-item">

      <a class="nav-link" href="#">About Us</a>

    </li>

  </ul>

</div>

</div>

</nav>

<!-- Form Section -->

<div class="form-container">

  <h2>Contact Us</h2>

  <form class="needs-validation" novalidate>

    <div class="mb-3">

      <label for="name" class="form-label">Full Name</label>

      <input type="text" class="form-control" id="name" placeholder="Enter your name" required>

      <div class="invalid-feedback">Please provide your name.</div>

    </div>

    <div class="mb-3">

      <label for="email" class="form-label">Email address</label>

      <input type="email" class="form-control" id="email" placeholder="Enter your email" required>

    </div>

  </form>

</div>
```




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<div class="invalid-feedback">Please provide a valid email.</div>

</div>

<div class="mb-3">

<label for="phone" class="form-label">Phone Number</label>

<input type="tel" class="form-control" id="phone" placeholder="Enter your phone" pattern="[0-9]{10}" required>

<div class="invalid-feedback">Please provide a 10-digit phone number.</div>

</div>

<div class="mb-3">

<label for="message" class="form-label">Message</label>

<textarea class="form-control" id="message" rows="4" placeholder="Write your message" required></textarea>

<div class="invalid-feedback">Please write a message.</div>

</div>

<button type="submit" class="btn btn-primary w-100">Submit</button>

</form>

</div>

<!-- Bootstrap JS -->

<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>

<script>

// Bootstrap form validation

(function () {
'use strict';

const forms = document.querySelectorAll('.needs-validation');
Array.from(forms).forEach(function (form) {
form.addEventListener('submit', function (event) {



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```
if (!form.checkValidity()) {  
    event.preventDefault();  
    event.stopPropagation();  
}  
  
form.classList.add('was-validated');  
  
}, false);  
  
});  
})();  
</script>  
</body>  
</html>
```

Output:

MyWebsite

- [Home](#)
- [About Us](#)

Contact Us

Full Name
Please provide your name.

Email address
Please provide a valid email.

Phone Number
Please provide a 10-digit phone number.

Write your message

Message
Please write a message.



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Conclusion

Bootstrap is a free and open-source front-end framework widely used by developers, especially in the field of web design and development. It provides a collection of pre-designed templates, responsive grid systems, and ready-to-use components such as buttons, forms, navigation bars, and modals. These features make it easy to create modern, mobile-friendly, and visually appealing websites with minimal effort. By using Bootstrap, developers can significantly reduce the amount of manual HTML, CSS, and JavaScript coding required, allowing them to focus more on functionality and user experience. Its consistency, cross-browser compatibility, and strong community support make Bootstrap a reliable and time-saving framework for building professional-quality web interfaces efficiently.