

College of Engineering  
Computer Science & Eng. Dept.  
Course: CMP 257 Web Application  
Programming (Lab)  
Location: ESB-1010



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**Lab 3: Introduction to Bootstrap**

➤ **Objectives:**

- Introduction to Bootstrap

You are expected to build upon the HTML pages you created in the previous labs in this lab script.

**Exercise 1: Bootstrap**

**[10 marks]**

Build upon the form you created in the previous lab by incorporating the following requirements.

**Resources:**

- Include the following links in your HTML files for both pages to include Bootstrap 5.3.8 (**Exact version is REQUIRED**) functionality:

```
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.8/dist/css/bootstrap.min.css" rel="stylesheet"/>  
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.8/dist/js/bootstrap.bundle.min.js"></script>
```

- Use the following links to find the documentation on:
  - Bootstrap Documentation: <https://getbootstrap.com/docs/5.3/getting-started/introduction/>
  - Carousels: <https://getbootstrap.com/docs/5.3/components/carousel/>
  - Object Fit: <https://getbootstrap.com/docs/5.3/utilities/object-fit/>
  - Navbar: <https://getbootstrap.com/docs/5.3/components/navbar/>
  - Grid: <https://getbootstrap.com/docs/5.3/layout/grid/>
  - Cards: <https://getbootstrap.com/docs/5.3/components/card/>
  - Forms: <https://getbootstrap.com/docs/5.3/forms/form-control/>
- **HINT:** Read the hints...

**Requirements:**

- **Bootstrap Setup:**
  - Include Bootstrap in your project by adding Bootstrap's CDN links for both CSS and JavaScript. This will provide access to Bootstrap's responsive grid system, components, and utility classes.
- **Responsive Navigation Bar:**

- Convert the existing navigation bar into a Bootstrap responsive navbar. Ensure that the navbar collapses into a hamburger menu on smaller screens.
  - Make sure the navbar is visually distinct (e.g., using background color, padding) and remains user-friendly on all devices, from mobile phones to desktops.
  - **Hint:** pick a navbar sample from the documentation which does not include a dropdown menu or a search bar, and that uses anchor tags only (as opposed to unordered lists), copy and paste it into your pages (**BOTH**), and edit it to fit your needs.
- **Carousel on Homepage:**
    - Add a Bootstrap carousel to the homepage to display a slideshow of images related to your website. The carousel should include at least three images and automatically cycle through them.
    - **Hint:** go to the Carousel documentation (cited in *resources*), scroll down to “Autoplaying carousels without controls,” and copy paste the code for the first example. For the images, simply copy the link of relevant images from Google and paste them into the source. To control the speed, add **data-bs-interval="3000"** to each carousel item *div*.
    - For the images to be sized appropriately, apply “cover fit” to each (found in Object Fit page in resources).
  - **Cards for Event Information:**
    - On the homepage, remake the event information section such that the event names, dates, and locations are displayed in Bootstrap Cards.
    - Make sure the cards fit the Bootstrap Grid layout shown below:

Row		
Col-4 (card 1)	Col-4 (card 2)	Col-4 (card 3)

- Each column (*div*) should include a Bootstrap Card.
- **Grid Layout for the Form:**
    - Use Bootstrap’s grid system to arrange the form fields on the "Submit an Event" page.
    - If you centred it using CSS last week, simply remove that portion from your style file.
    - If you had used a table to create the form previously, recreate it (without a table) using the Bootstrap Grid system (you may **not** keep the table); make sure it follows the following format:

Row	
Col-6 (Event Name)	Col-6 (Event Date)
Col-6 (Event Time)	Col-6 (Location)
Col-12 (Brief Description)	
Col-6 (Organizer Name)	Col-6 (Organizer Email)
Col-6 (Event Availability to All Students)	Col-6 (Event Type)
Col-12 (Event Department)	

## Col-12 (Buttons)

- **Hint:** Build the grid layout first (as a row *div* containing column *divs*), then fill each column with the appropriate label and input.

- **Form Styling:**

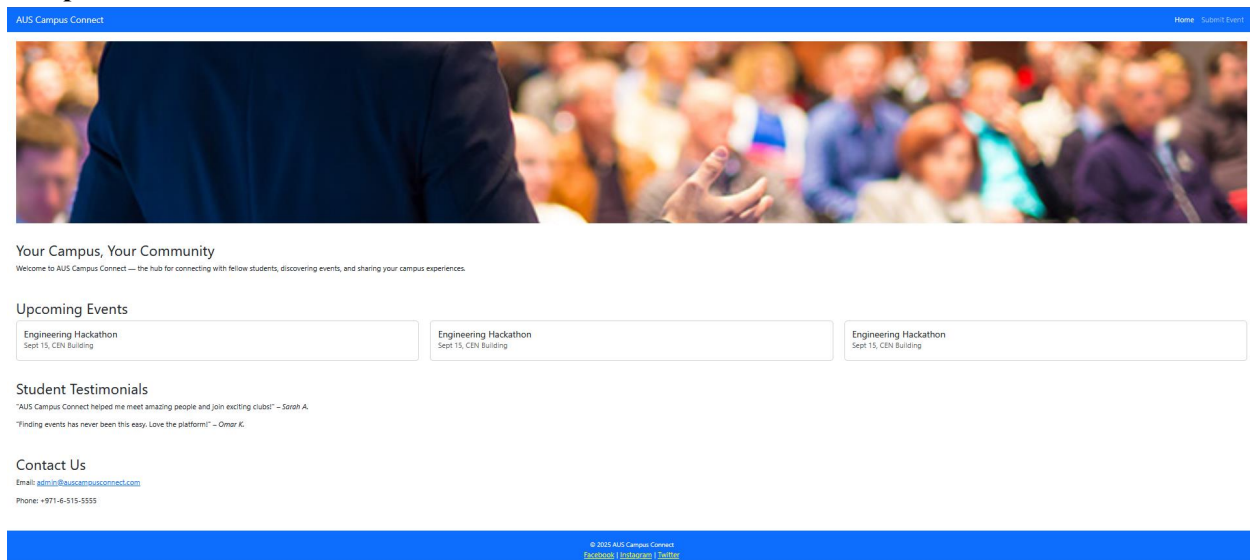
- Apply Bootstrap's form-control/form-check/form-select classes to style text inputs, dropdowns, and other form elements. Ensure that each form element looks clean and is uniformly styled.
- Apply Bootstrap's form-label/form-check-label classes to style the labels for each form field.
- Use Bootstrap's button classes (e.g., btn-primary, btn-danger) to style the form's "Submit" and "Reset" buttons. Make sure these buttons are distinguishable and have hover effects for a polished user experience.

### Submission:

Upload the following to iLearn:

- A word document containing all the code of both pages and the css stylesheet as well as screenshots of both pages

### Sample Website:



## Submit Your Event

Event Name *	Event Date *
<input type="text"/>	<input type="text" value="dd / mm / yyyy"/>
Event Time	Location
<input type="text" value="--:-- --"/>	<input type="text"/>
Brief Description	
<input type="text"/>	
Organizer Name	Organizer Email
<input type="text"/>	<input type="text"/>
Is this event open to all students?	What type of event is this?
<input type="radio"/> Yes <input type="radio"/> No	<input type="checkbox"/> Workshop <input type="checkbox"/> Social <input type="checkbox"/> Sports <input type="checkbox"/> Academic <input type="checkbox"/> Other
Select the department hosting the event	
<input type="text" value="CEN"/>	
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

Code:  
events.html:

```
<!DOCTYPE html>
<html>

<head>
  <title>AUS Campus Connect - Submit an Event</title>
  <link rel="stylesheet" href="styles.css">
  <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.8/dist/css/bootstrap.min.css"
rel="stylesheet" />
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.8/dist/js/bootstrap.bundle.min.js"
"></script>

</head>

<body>
  <nav class="navbar navbar-expand-lg bg-body-tertiary">
    <div class="container-fluid">
      <h1>AUS Campus Connect</h1>
      <button class="navbar-toggler" type="button" data-bs-
toggle="collapse" data-bs-target="#navbarNavAltMarkup"
aria-controls="navbarNavAltMarkup" aria-expanded="false" aria-
label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
```

```

        <div class="navbar-nav">
            <a class="nav-link active" aria-current="page"
href="index.html">Home</a>
            <a class="nav-link" href="events.html">Submit Event</a>
        </div>
    </div>
</div>
</nav>

<div class="container my-5">
    <form action="events.html" method="get">

        <div class="row g-3">
            <div class="col-md-6">
                <label for="my_text">Event Name:*</label>
                <input type="text" id="my_text" name="my_text"
class="form-control" required>
            </div>

            <div class="col-md-6">
                <label for="my_date">Event Date:*</label>
                <input type="date" id="my_date" name="my_date" class="form-
control" required>
            </div>
        </div>

        <div class="row g-3">
            <div class="col-md-6">
                <label for="my_time">Event Time:</label>

                <input type="time" id="my_time" name="my_time" class="form-
control">
            </div>

            <div class="col-md-6">
                <label for="my_text" class="form-label">Location:</label>

                <input type="text" id="my_text" name="my_text" class="form-
control">
            </div>
        </div>

        <div class="row g-3">
            <div class="col-md-12">

```

```

        <label for="comments" class="form-label">Event
Description:</label>
        <textarea id="comments" name="comments" rows="7" cols="20"
class="form-control">
</textarea>
    </div>
</div>

    <div class="row g-3">
        <div class="col-md-6">
            <label for="my_text">Organizer Name:</label>
            <input type="text" Organizer Name" id="my_text" name="my_text"
class="form-control">
        </div>

        <div class="col-md-6">
            <label for="email">Organizer Email:</label>
            <input type="text" Organizer Email" id="email" name="email"
class="form-control">
        </div>
    </div>

    <div class="row g-3">
        <div class="col-md-6">
            <label for="college">Is this event open to all
students?</label><br>

            <input type="radio" id="option1" name="option1" value="yes"
class="form-check-input">
            <label for="option1" class="form-check-label">
Yes</label><br>

            <input type="radio" id="option2" name="option1" value="no"
class="form-check-input">
            <label for="option2" class="form-check-label">No</label><br>
        </div>

        <div class="col-md-6">
            <label for="college">What type of event is this?</label><br>

            <input type="checkbox" id="event1" name="event1"
value="Workshop" class="form-check-input">
            <label for="event1" class="form-check-label">
Workshop</label><br>

```

```

        <input type="checkbox" id="event2" name="event2"
value="Social" class="form-check-input">
        <label for="event2" class="form-check-label">
Social</label><br>
        <input type="checkbox" id="event3" name="event3"
value="Sports" class="form-check-input">
        <label for="event3" class="form-check-
label">Sports</label><br>
        <input type="checkbox" id="event4" name="event4"
value="Academic" class="form-check-input">
        <label for="event4" class="form-check-
label">Academic</label><br>
        <input type="checkbox" id="event5" name="event5"
value="Other" class="form-check-input">
        <label for="event5" class="form-check-
label">Other</label><br>
    </div>
</div>

<div class="row g-3">
    <div class="col-md-12">
        <label for="college">What type of event is this?</label>

        <label for="college">Select the department hosting the
event:</label>

        <select name="college" id="college" class="form-select">
            <option value="CEN">CEN</option>
            <option value="SBA">SBA</option>
            <option value="CAS">CAS</option>
            <option value="CAAD">CAAD</option>
            <option value="OSA">OSA</option>
            <option value="Other">Other</option>
        </select>
    </div>

    <div class="row g-3">
        <div class="col-md-12">
            <button id="submit" type="button" class="btn btn-
primary">Submit Event </button>
            <input id="reset" type="reset" class="btn btn-danger">
</textare>
        </div>
    </div>
</div>

```





```

</head>

<body>

    <nav class="navbar navbar-expand-lg custom">
        <div class="container-fluid">
            <h1>AUS Campus Connect</h1>
            <button class="navbar-toggler" type="button" data-bs-
toggle="collapse" data-bs-target="#navbarNavAltMarkup"
            aria-controls="navbarNavAltMarkup" aria-expanded="false" aria-
label="Toggle navigation">
                <span class="navbar-toggler-icon"></span>
            </button>
            <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
                <div class="navbar-nav">
                    <a class="nav-link active" aria-current="page"
href="index.html">Home</a>
                    <a class="nav-link" href="events.html">Submit Event</a>
                </div>
            </div>
        </div>
    </nav>

    <section>
        <div id="carouselExampleSlidesOnly" class="carousel slide" data-bs-
ride="carousel">
            <div class="carousel-inner h-25">
                <div class="carousel-item active " data-bs-interval="2000">
                    
                </div>
                <div class="carousel-item" data-bs-interval="3000">
                    
                </div>
                <div class="carousel-item" data-bs-interval="3000">
                    
    </div>
</div>
</div>
</section>

<h2>Your Campus, Your Community</h2>
<h3>Connecting AUS students through events, stories, and shared
experiences</h3>

<h4>Upcomingggggg Events</h4>

<div class="container text-center">
    <div class="row">
        <div class="col">
            <div class="card" style="width: 18rem;">
<div class="card-body">
    <h5 class="card-title">AI Club Hackathon</h5>
    <h6 class="card-subtitle mb-2 text-body-secondary">- Sept 3 2025 @Innovation
Lab</h6>

    </div>
</div>

        </div>
        <div class="col">

            <div class="card" style="width: 18rem;">
<div class="card-body">
    <h5 class="card-title">Business Networking Night</h5>
    <h6 class="card-subtitle mb-2 text-body-secondary">- Sept 5 2025 @Main
Hall</h6>

    </div>
</div>

        </div>
        <div class="col">

            <div class="card" style="width: 18rem;">
<div class="card-body">
    <h5 class="card-title">Film Society Movie Night</h5>

```

```

    <h6 class="card-subtitle mb-2 text-body-secondary"> - Sept 8 2025 @Lecture
Hall B</h6>

  </div>
</div>

    </div>
  </div>
</div>

  <h2>Student Voices</h2>
  <blockquote>
    <p>"Campus Connect made it so easy to find cool events and meet people
outside my department!" -
      <em>Layla, Computer Science</em>
    </p>
  </blockquote>
  <blockquote>
    <p>"I submitted my club's event and got over 100 attendees thanks to this
platform." -
      <cite>Omar, Business Club President</cite>
    </p>
  </blockquote>

  <h2>Contact Us</h2>

  <small><i>Email:<a
href="Email:admin@auscampusconnect.com">admin@auscampusconnect.com</a></i>
  <br>

    <i>Office: Student Center, Room 204</i></small>

</body>

<footer><small>&copy; 2025 AUS Campus Connect
  <nav>
    <a href="www.instagram.com">Instagram</a> |
    <a href="www.facebook.com">Facebook</a> |
    <a href="www.twitter.com">X (Twitter)</a>

  </nav>
</small>
</footer>

```

```
</html>
```

Styles.css:

```
body {
  background-color: #ff93bc;
  font-family: "Lucida Console", "Courier New", monospace;
  color: white;
}

header {
  background-color: #f07fb0;
  text-align: center;
}

footer {
  background-color: #e990d0;
  text-align: center;
  margin: 0;
  padding: 20px;
}

h1 {
  font-size: 50px;
  color: white;
}
h2 {
  font-size: 30px;
}

.custom {
  background-color: #e990d0;
  color: white;
  padding: 5px;
}
```



## Your Campus, Your Community

Connecting AUS students through events, stories, and shared experiences

### Upcominggggg Events

#### AI Club Hackathon

- Sept 3 2025 @Innovation Lab

#### Business Networking Night

- Sept 5 2025 @Main Hall

#### Film Society Movie Night

- Sept 8 2025 @Lecture Hall B

## Student Voices

"Campus Connect made it so easy to find cool events and meet people outside my department!" - *Layla, Computer Science*

"I submitted my club's event and got over 100 attendees thanks to this platform." - *Omar, Business Club President*

## Contact Us

Email: [admin@auscampusconnect.com](mailto:admin@auscampusconnect.com)

Office: Student Center, Room 204

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Event Name:\*

Event Date:\*

dd/mm/yyyy



Event Time:

--:-- --



Location:

Event Description:

Organizer Name:

Organizer Email:

Is this event open to all students?

- ☐ Yes  
☐ No

What type of event is this?

- ☐ Workshop  
☐ Social  
☐ Sports  
☐ Academic  
☐ Other

What type of event is this? Select the department hosting the event:

CEN



Submit Event

Reset

[← Back to Home](#)