Week 4 Lab — Bootstrap 5 Basics (Grid, Navbar, Cards, Forms & Modal)

Goal: Build a responsive "Campus Events" page using Bootstrap 5 (no custom CSS).

Submit: repo link + index.html + 2 screenshots (full page, modal open).

1) Setup (CDN) — 5 min

2) Navbar (collapses on mobile) — 10-15 min

3) Grid layout + hero — 10 min

4) Cards grid (events) — 10-15 min

```
<section id="list" class="py-5">
  <div class="container">
    <div class="row g-4">
     <div class="col-sm-6 col-lg-4">
        <div class="card h-100">
         <img src="https://picsum.photos/600/300?1" class="card-img-top" alt="Basketball">
         <div class="card-body">
           <h5 class="card-title">Inter-Hall Basketball</h5>
           Fri 16:00 - Main Court
           <span class="badge text-bg-info">Sports</span>
         </div>
       </div>
     </div>
     <!-- Duplicate this col for 3-6 cards -->
  </div>
</section>
```

5) Forms (with validation styles) — 10-15 min

```
<section id="submit" class="py-5 bg-light border-top">
  <div class="container">
    <h2 class="h4 mb-3">Submit an Event</h2>
    <form class="row g-3 needs-validation" novalidate>
      <div class="col-md-6">
        <label class="form-label">Title</label>
        <input class="form-control" required>
        <div class="invalid-feedback">Title is required.</div>
      <div class="col-md-6">
        <label class="form-label">Category</label>
        <select class="form-select" required>
          <option value="">Choose...</option>
          <option>Sports</option><option>Clubs</option>Coption>Chapel</option>
        </select>
        <div class="invalid-feedback">Pick a category.</div>
      <div class="col-12">
        <label class="form-label">Details</label>
        <textarea class="form-control" rows="3"></textarea>
      <div class="col-12">
        <button class="btn btn-success">Submit</button>
      </div>
    </form>
  </div>
</section>
<script>
(() => {
 const forms = document.querySelectorAll('.needs-validation');
 Array.from(forms).forEach(f => {
   f.addEventListener('submit', e => {
      if (!f.checkValidity()) { e.preventDefault(); e.stopPropagation(); }
      f.classList.add('was-validated');
    }, false);
  });
})();
```

6) Modal (JS component) — 10 min

```
<div class="modal fade" id="addEvent" tabindex="-1" aria-hidden="true">
  <div class="modal-dialog">
    <div class="modal-content">
      <div class="modal-header">
        <h5 class="modal-title">Add Event</h5>
        <button type="button" class="btn-close" data-bs-dismiss="modal"></button>
      </div>
      <div class="modal-body">
        Use the form below (or the Submit section) to add a campus event.
        <input class="form-control" placeholder="Quick title">
      </div>
      <div class="modal-footer">
        <button class="btn btn-secondary" data-bs-dismiss="modal">Close</button>
        <button class="btn btn-primary">Save</button>
      </div>
    </div>
  </div>
</div>
```

7) Utilities polish — 5 min

Deliverables (end of Week 4)

- Repo: ucu-dip-webdev-2025-lab04-bootstrap--
- Files: index.html (uses Bootstrap CDN only)
- Screenshots (2): full page; modal open

Grading (4 pts)

- Navbar + responsive grid layout 1.5
- Cards section looks good at mobile & desktop 1.0
- Form with validation styles 1.0
- Modal works + repo hygiene (names/screenshots) 0.5

Quick fixes

- Toggler doesn't open? Ensure bundle JS is included after HTML and button data-bs-target matches the collapse id.
- Icons not showing? Check the Bootstrap Icons CDN link and icon class name (bi bi-...).

Beginner-Friendly Bootstrap Examples (Paste inside)

0) Quick starter (CDN)

1) Typography & Utilities

2) Buttons (sizes & states)

```
<div class="container py-4">
  <button class="btn btn-primary">Primary</button>
  <button class="btn btn-outline-secondary">Outline</button>
  <button class="btn btn-success btn-sm">Small</button>
  <button class="btn btn-danger btn-lg">Large</button>
  <button class="btn btn-warning" disabled>Disabled</button>
  </div>
```

3) Alerts (dismissible)

```
<div class="container py-4">
    <div class="alert alert-success alert-dismissible fade show" role="alert">
        <strong>Nice!</strong> Your profile was saved.
        <button type="button" class="btn-close" data-bs-dismiss="alert"></button>
        </div>
</div>
```

4) Badges in Buttons

```
<div class="container py-4">
    <button class="btn btn-dark">
      Notifications <span class="badge text-bg-danger ms-1">3</span>
    </button>
</div>
```

5) List Group (active/disabled)

```
<div class="container py-4">
```

```
      Today
      Tomorrow
      Next Week (disabled)

</div>
```

6) Responsive Images

```
<div class="container py-4">
    <img class="img-fluid rounded" src="https://picsum.photos/900/300" alt="Banner">
    <img class="img-thumbnail mt-3" src="https://picsum.photos/120" alt="Avatar">
    <img class="rounded-circle ms-2" src="https://picsum.photos/80" alt="Circle avatar">
    </div>
```

7) Grid Basics (stack on mobile, columns on desktop)

8) Table (striped + responsive)

9) Card Grid (simple)

10) Forms — Stacked (beginner)

```
<div class="container py-4">
  <form class="bg-white p-3 rounded border">
    <div class="mb-3">
      <label class="form-label" for="email">Email</label>
      <input id="email" type="email" class="form-control" placeholder="you@ucu.ac.ug" required>
      <div class="form-text">We'll never share your email.</div>
    </div>
    <div class="mb-3">
      <label class="form-label" for="pw">Password</label>
      <input id="pw" type="password" class="form-control" required>
    </dim>
    <div class="mb-3 form-check">
      <input id="remember" type="checkbox" class="form-check-input">
      <label class="form-check-label" for="remember">Remember me</label>
    <button class="btn btn-success">Sign in</button>
  </form>
</div>
```

11) Forms — Input Group (with icon/text)

12) Floating Labels (nice, modern)

13) Navbar (simple)

14) Accordion (FAQ)

15) Modal (trigger + dialog)

16) Offcanvas (slide-in menu)

17) Toast (quick message)

</div>

Dashboard
Settings

```
</div>
<script>
  const toastEl = document.getElementById('liveToast');
  const toast = new bootstrap.Toast(toastEl, { delay: 2000 });
  toast.show();
</script>
```

Mini-challenges (beginner practice)

- Make it responsive: Turn a 1-column card list into 2 columns on md, 3 on lg.
- Validation: Add required to form fields and use .was-validated on submit.
- Theme switch: Change the navbar to navbar-dark bg-dark and compare contrast.
- Spacing drill: Add py-5 to a section and g-3 to a row—see the difference.
- Icons (optional): Add Bootstrap Icons CDN and put a calendar icon in your hero.