

Program - BSc (Hons) Computer Systems Engineering (BSc.IT)

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MODULE CODE: CET138

MODULE TITLE: Full Stack Development

MODULE LEADER: David Grey

SUBMISSION DATE AND TIME: As stated in the assignment submission page on Canvas for this module

ASSIGNMENT: First Assignment

Academic Misconduct is an offence under university regulations, and this involves:

- Plagiarism where you use information from another information source (including your previously submitted work) and pass it off as your own. This can be through direct copying, poor paraphrasing and/or absence of citations.
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 that is similar in nature. This can be through loaning of materials, drafts or through unauthorised use
 of a fellow student's work.
- Asking another person to write your assignment where you ask another individual or company to
 complete your work for you, be that paid or unpaid, and submit it as if it were your own.
- Unauthorised use of artificial intelligence where you use artificial intelligence tools to generate your
 assignment instead of completing it yourself and/or where you have not been given permission to use
 artificial intelligence tools by your module leader. Please complete the following declaration around
 you use of artificial intelligence tools in your assignment.

STATEMENT ON USE OF ARTIFICIAL INTELLIGENCE TOOLS:

•	I have used artificial intelligence tools to generate an idea for my assignment:	NO
•	I have used artificial intelligence tools to write my assignment for me:	NO
•	I have used artificial intelligence tools to brainstorm ideas for my assignment:	NO
•	I have used artificial intelligence tools to correct my original assignment:	NO

DECLARATION

- I understand that by submitting this piece of work I am declaring it to be my own work and in compliance with the university regulations on Academic Integrity.
- I confirm that I have done this work myself without external support or inappropriate use of resources.
- I understand that I am only permitted to use artificial intelligence tools in line with guidance provided by my Module Leader, and I have not used artificial intelligence tools outside this remit.
- I confirm that this piece of work has not been submitted for any other assignment at this or another
 institution prior to this point in time.
- I can confirm that all sources of information, including quotations, have been acknowledged by citing
 the source in the text, along with producing a full list of the sources used at the end of the
 assignment.
- I understand that academic misconduct is an offence and can result in formal disciplinary proceedings.
- I understand that by submitting this assignment, I declare myself fit to be able to complete the
 assignment and I accept the outcome of the assessment as valid and appropriate.

ANY OTHER COMMENTS FROM STUDENT:

BOOTSTRAP

What is Bootstrap?

- Bootstrap is a free and open-source front-end framework for developing responsive, mobile-first websites. It gives you a flexible grid system, pre-styled components, and utility classes so you can save time and avoid reinventing the wheel when designing a professional looking design without having to write a lot of custom CSS.

Key Features of Bootstrap

- Responsive Grid System → Up to 12-column layout, which is easy to work with for various screen sizes.
- Prebuilt Components → With navbars, buttons, forms, tables, modals, cards and such.
- Utilities → Predefined classes spacing, align, color, and typography.
- Mobile-First Automatically adapts for phones, tablets, and desktops.
- Cross-browser Compatibility \rightarrow Compatible with all the major web browsers.

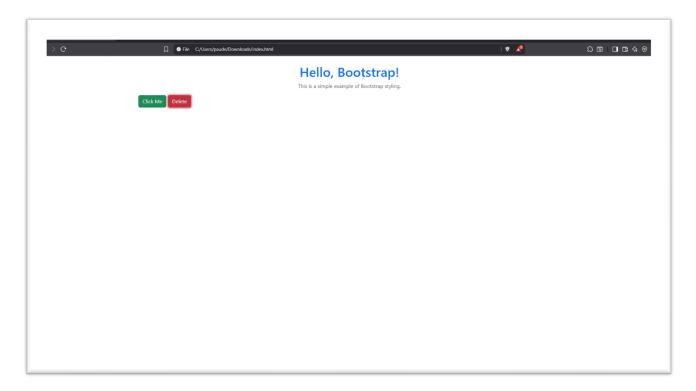
Example: Basic Bootstrap page:

```
File Edit Selection View Go Run Terminal Help

∠ Search

     index.html ×
      C: > Users > paude > Downloads > ♦ index.html > ♦ html > ♦ body.container.my-4 > ♦ button.btn.btn-danger
            <!DOCTYPE html>
           <html lang="en">
လို
                <meta charset="UTF-8">
               <meta name="viewport" content="width=device-width, initial-scale=1.0">
               <title>Bootstrap Example</title>
                <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet">
            <body class="container my-4">
                <h1 class="text-center text-primary">Hello, Bootstrap!</h1>
                 This is a simple example of Bootstrap styling.
                <button class="btn btn-success">Click Me</button>
               <button class="btn btn-danger">Delete
       14
```

Outcome of this code:



How it works:

- Bootstrap is included using <link> in <head>.
- .text-center centers the text in the line.
- .text-primary applies a blue heading color.
- .text-muted makes the paragraph lighter.
- Buttons are using .btn, .btn-success (green color), and .btn-danger (red color).

My Task: Bootstrap Projects

I have created two projects using Bootstrap:

1. Weekly Timetable

Code:

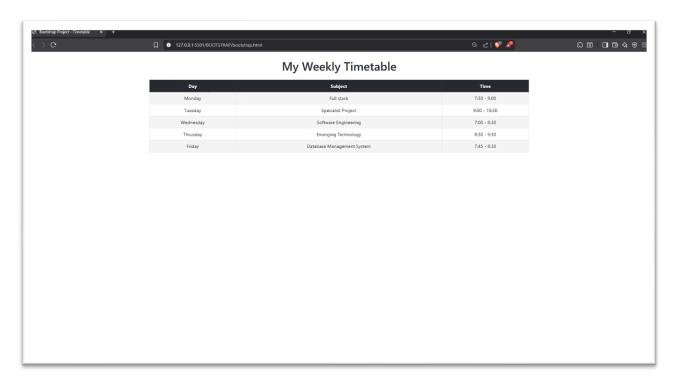
```
File Edit Selection View Go Run Terminal
    bootstrap.html X
    BOOTSTRAP > ♦ bootstrap.html > ♦ html > ♦ body.container.my-4 > ♦ table.table.table-striped.table-bordered.text-center > ♦ tbody > ♦ tr
          <!DOCTYPE html>
          <html lang="en">
လို
           <meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
           <title>Bootstrap Project - Timetable</title>
           <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet">
          <body class="container my-4">
           <h1 class="text-center mb-4">My Weekly Timetable</h1>
           <thead class="table-dark">
               Day
               Subject
                Time
              7:30 - 9:00
      29
              Tuesday
                Specialist Project
              9:00 - 10:30
               Wednesday
               Software Engineering
                7:00 - 8:30
              Thrusday
                Emerging Technology
                8:30 - 9:30
              Friday
                Database Management System
                7:45 - 8:30
```

- tag is been used with Bootstrap classes: .table, .table-striped, .table-bordered, .table-dark.
- Each row represents a day, subject, and time.

What it demonstrates:

- It improve the ability to use bootstrap tables for clean, responsive layouts.
- It helps use to understand about utility of classes for spacing and alignment.

Result:



How it Works:

- 1. <div class="container"> is been used in pages for layout.
- 2. .table & .table-striped is used to styled
- 3. To create a dark header <thead class="table-dark"> is been used.
- 4. lists daily schedule rows.

2. Contact Me Form

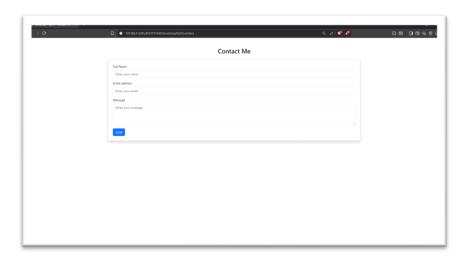
Code:

- Used <form> with Bootstrap classes.
- Name, Email, and Message fields is been included.
- Submit button is styled with .btn btn-primary.

What it demonstrates:

- Understanding of Bootstrap form controls (.form-control, .form-label).
- It has an ability to build a responsive forms with no use of CSS.

Result:



How it Works:

- <div class="container"> holds the form.
- Each input field is inside <div class="mb-3"> for spacing.
- Labels styled with .form-label.
- Inputs and textarea styled with .form-control.
- Submit button styled with .btn btn-primary.