

Most of the information for this assignment is found in Chapter 2.

You may want to review Bootstrap 4 using this tutorial:

https://www.quackit.com/bootstrap/bootstrap_4/tutorial/

TempConvert

// Create your solution and project under labs/UNIT_01_LAB/Experiment

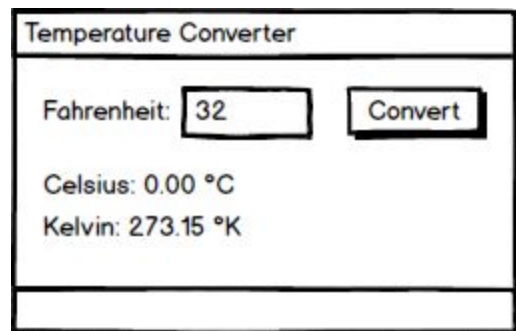
// Implement the lab assignment with a controller named TempConvertController

Make a simple web application that can convert temperatures from Fahrenheit into Celsius and Kelvin.

Present appropriate error messages to the user if they do not enter a temperature.

$\text{celsius} = (\text{fahrenheit} - 32) / 1.8$

$\text{kelvin} = (\text{celsius} + 273.15)$



The screenshot shows a web application titled "Temperature Converter". It features a form with a label "Fahrenheit:" followed by a text input field containing the value "32". To the right of the input field is a button labeled "Convert". Below the input field, the application displays the converted values: "Celsius: 0.00 °C" and "Kelvin: 273.15 °K".

MpgCalc

// Use the same project as LB01

// Implement the lab assignment with a controller named MpgCalcController

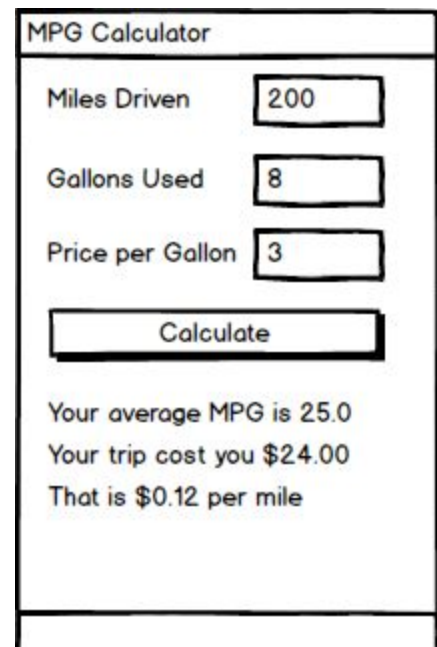
Make a simple web application that calculates the average cost per mile for your next roadtrip.

Present appropriate error messages to the user if they do not values into all fields.

$\text{mpg} = (\text{milesDriven} / \text{gallonsUsed})$

$\text{tripCost} = (\text{gallonsUsed} * \text{pricePerGallon})$

$\text{costPerMile} = (\text{tripCost} / \text{milesDriven})$





The screenshot shows a web application titled "MPG Calculator". It features a form with three labels: "Miles Driven", "Gallons Used", and "Price per Gallon". Each label is followed by a text input field. The input fields contain the values "200", "8", and "3" respectively. Below the input fields is a button labeled "Calculate". Below the button, the application displays the calculated results: "Your average MPG is 25.0", "Your trip cost you \$24.00", and "That is \$0.12 per mile".

Portfolio

// Create a new solution and project under labs/UNIT_01_LAB/Portfolio

Make a simple web portfolio using ASP.NET MVC, Bootstrap 4, and FontAwesome 5.

- ☐ The portfolio should be implemented as a single-page-application
- ☐ Use the HomeController for your home page
- ☐ Use the Index method and Index view for your home page
- ☐ Follow the Bootstrap 4 guide to integrate jQuery, Popper.js, and Bootstrap via CDN
<https://getbootstrap.com/docs/4.0/getting-started/introduction/>
 - ☐ Place all <link> tags to CSS files at the end of the <head>
 - ☐ Place all <script> tags to JS files at the end of the <body>
- ☐ Get a free FontAwesome CDN kit and integrate it
<https://fontawesome.com/start>
- ☐ Your home page must follow the outline below:
 - ☐ Navbar
 - ☐ Navbar must be mobile-responsive
 - ☐ Clicking on a link should smoothly scroll the user to the appropriate section of the page
 - ☐ Use Bootstrap Scrollspy to highlight the current section in the navbar
<https://getbootstrap.com/docs/4.0/components/scrollspy/>
 - ☐ Use FontAwesome 5 to add an icon to the left of each item in the navbar
For Example: " Home  About Me ..."
 - ☐ Jumbotron
 - ☐ Must include your name and a catch phrase / tag line
 - ☐ Must include a Bootstrap carousel with 3-5 screenshots of your past projects
 - ☐ About Me
 - ☐ Must include a professional picture of yourself
 - ☐ Must include some brief information about yourself (no lorem ipsum)
 - ☐ Use a FontAwesome 5 icon in the section header
 - ☐ Contact Me
 - ☐ Must include a contact form which posts to the **ContactMe** action method
 - ☐ Must include fields for a name, email address, and message body
 - ☐ All fields are required. Show an appropriate error message if the user leaves a field blank.

- ☐ If the user submits the form with valid data, then display the message **"Message has been sent, we will get back with you shortly."** on a new page. (Also provide the user with a link back to the home page.)
- ☐ Use the HTML helper methods **Html.BeginForm()**, **Html.TextBoxFor()**, and **Html.ValidationMessageFor()** to create this form
- ☐ Apply the **form**, **form-group**, **form-control**, and **text-danger** classes as needed.
- ☐ Use a FontAwesome 5 icon in the section header
- ☐ Footer
 - ☐ Must include copyright info like so © **Paul Smith 2019** (use your name instead)
 - ☐ The background of the footer must have a contrasting background to the rest of the page