

Lab: Create an HTML form

Estimated time: 30 minutes

An event management company is looking for part-time employees and wants interested candidates to register online. They plan to contact those who register whenever there is an event. The company has approached you to create an online form that the applicants can use to register.

Objectives

After completing this lab, you will be able to:

1. Create an HTML form
2. Add labels and text input fields
3. Add a control to input a phone number
4. Add a control to input an email ID
5. Add a **Submit** button
6. Group the form elements in a fieldset and add a legend to it.

1. Create a form

In the window to the right, click **File > New File**. A **New File** window opens.

Type `registration_form.html` as the file name and click **OK**. You are now ready to start creating your web page.

You will use the `<form>` tag to create an HTML form. The `action` attribute of the form specifies the URL that processes the data when the form is submitted.

Note: The code at the destination URL is written by the back-end system developer. As a front-end developer, your focus is on creating the HTML form.

The following code creates a basic form within an HTML document, to which you will add controls. Copy the code into your HTML file and save it.

```
<!DOCTYPE html>
<html>
  <head>
    <title> Registration Form </title>
  </head>
  <body>
    <h2>Registration Form</h2>
    <form action="/register">
      </form>
    </body>
  </html>
```

2. Add a label and a text input field

The `<input>` tag is used to create different types of controls that enable the user to input values. The default input type is `text`.

The `<label>` tag defines the label text for other HTML form elements. The `for` attribute of the `<label>` tag should be the same as the ID of the element it binds to.

Let's add a label and a `text` input field for the first name of the user. Type the following code inside the `<form>` tag.

```
<label for="firstname">First name :</label>
<input type="text" id="firstname" name="firstname">
```

The `id` attribute enables the front-end developer to access this input control. The `name` attribute enables the back-end system developer to access the value that's entered in this input field.

We need a similar field for the user's last name:

```
<label for="lastname">Last name :</label>
<input type="text" id="lastname" name="lastname">
```

After you add the two input text fields, your code should look like this:

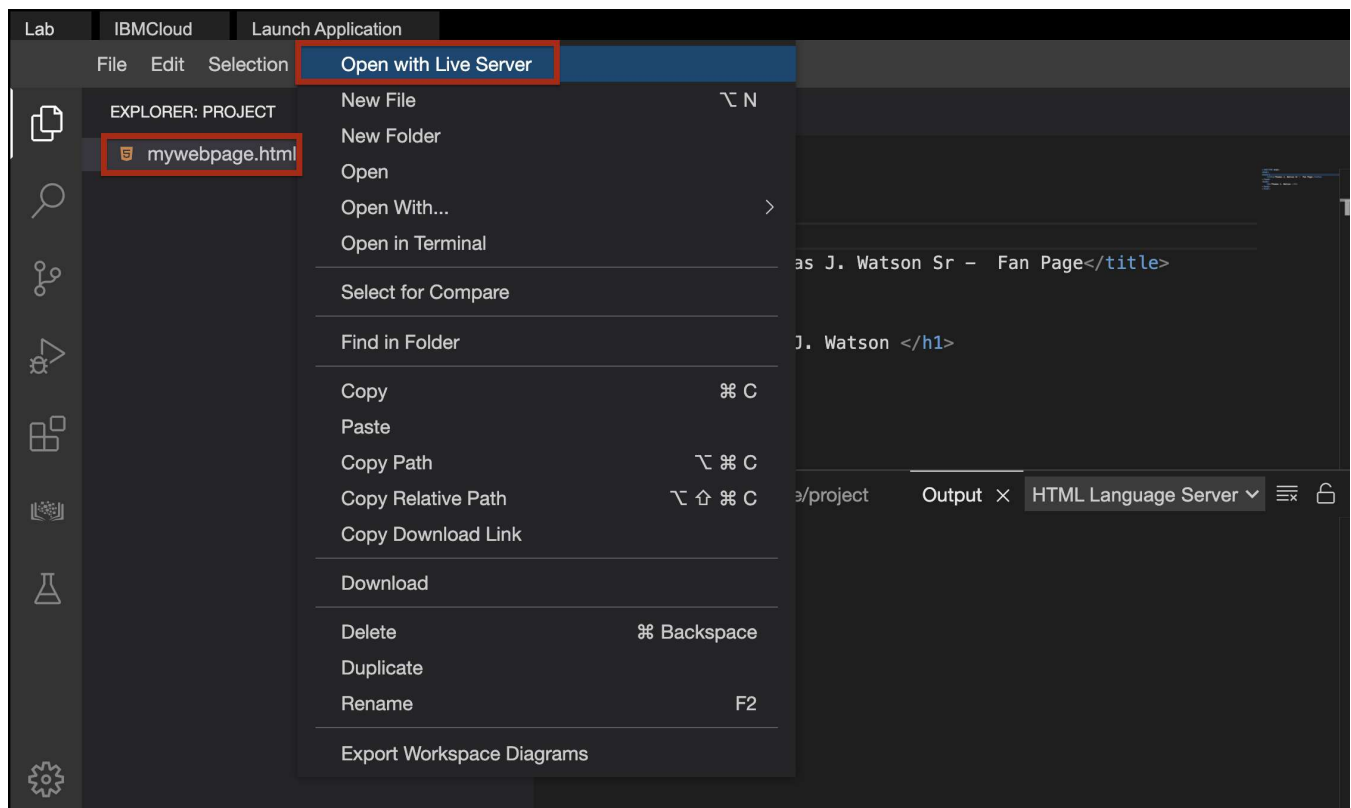
```
<!DOCTYPE html>
<html>
  <head>
    <title> Registration Form </title>
  </head>
  <body>
    <h2>Registration Form</h2>
    <form action="/register">
      <label for="firstname">First name :</label>
      <input type="text" id="firstname" name="firstname">
      <br><br>
      <label for="lastname">Last name :</label>
      <input type="text" id="lastname" name="lastname">
    </form>
  </body>
</html>
```

Note that the `
` tag creates a line break. Without the `
` tag, all our form controls would display in a single line in our HTML page.

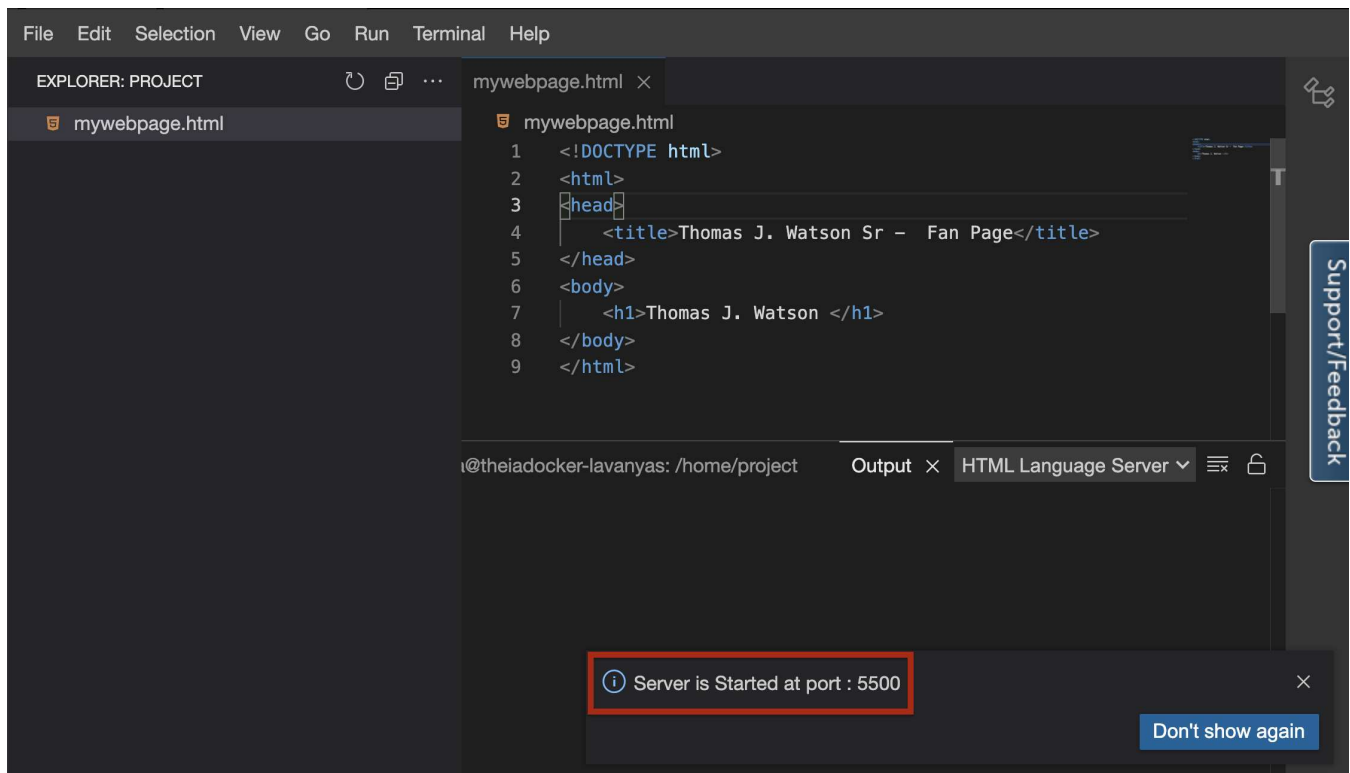
To see how your HTML page displays, kindly use Live server which has been already installed in SN Labs.

Instructions to preview a file using Live Server:

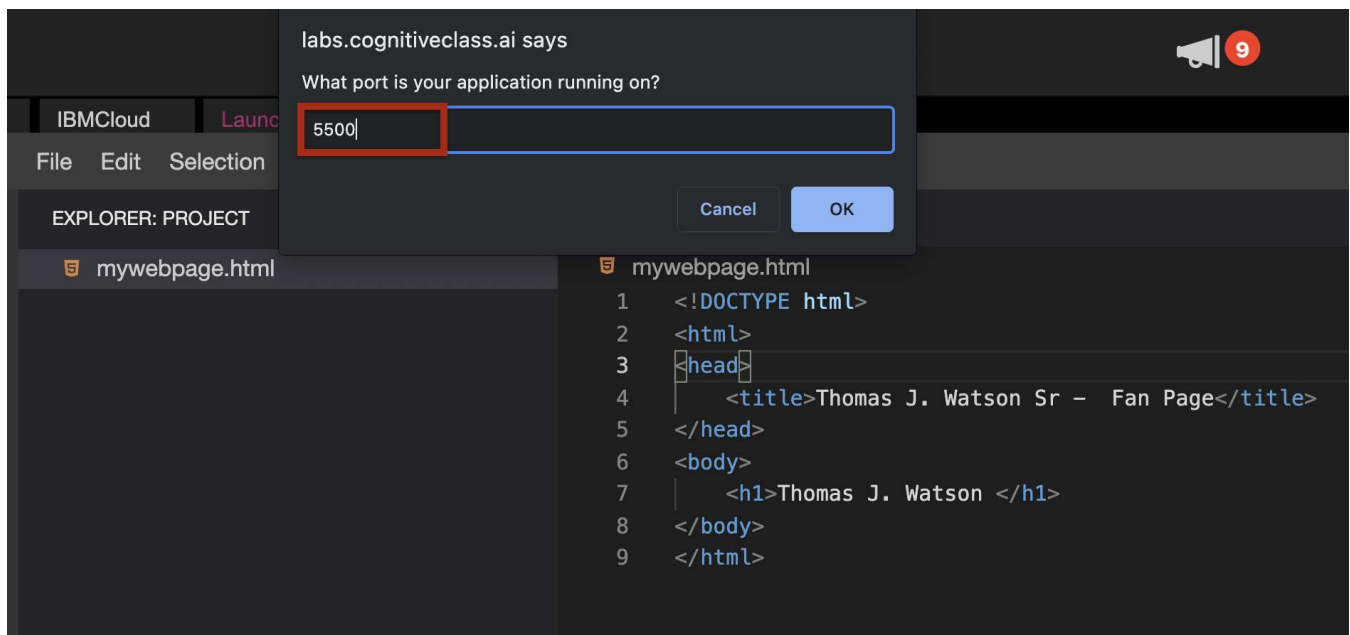
1. Right click on your file & click on 'Open with Live Server'



2. This should show notifications mentioning that the server has started on port 5500 & is Live.



3. Click on Launch application & enter the port no. as 5500



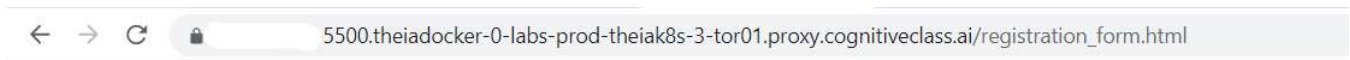
4. This will open your file on a new window in your local browser.

(Note – If you get a pop-up block alert, please allow pop-ups & do repeat Step 3 again)

5. Click on the file name to view its preview.



After following the above steps, Your page should now look like this:



Registration Form

First name :

Last name :

3. Add a control to input an email ID

To enable users to enter their e-mail address, you will use the `<input>` tag with the `email` type. Add the following code to your form after the **Last name** text field:

```
<label for="email">Email :</label>
<input type="email" id="email" name="email">
```

Your page should now like this:

```
<!DOCTYPE html>
<html>
  <head>
    <title> Registration Form </title>
  </head>
  <body>
    <h2>Registration Form</h2>
    <form action="/register">
      <label for="firstname">First name :</label>
      <input type="text" id="firstname" name="firstname">
      <br><br>
      <label for="lastname">Last name :</label>
      <input type="text" id="lastname" name="lastname">
      <br><br>
      <label for="email">Email :</label>
      <input type="email" id="email" name="email">
    </form>
  </body>
</html>
```

When you have updated your code, save the file. The page should now look like this:

← → ↻ 5500.theiadocker-0-labs-prod-theiak8s-3-tor01.proxy.cognitiveclass.ai/registration_form.html

Registration Form

First name :

Last name :

Email :

Add a Submit button

Finally, let's add a **Submit** button at the end of the form. When a user clicks **Submit**, the form data is submitted to the back-end program for processing.

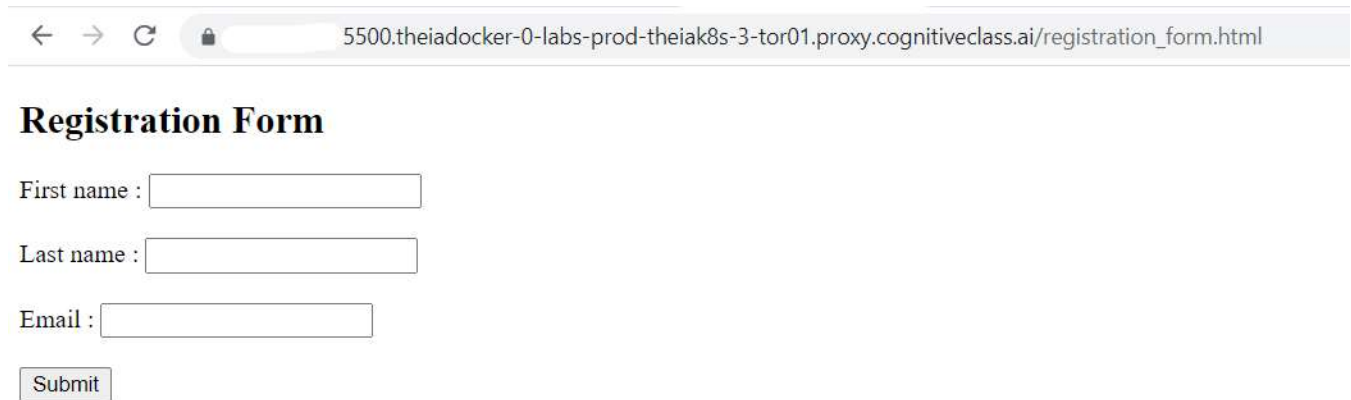
The following code will create a **Submit** button with a text label. Add this line immediately after the **Email** field:

```
<input type="submit" value="Submit">
```

Your final form code should look like this:

```
<!DOCTYPE html>
<html>
  <head>
    <title> Registration Form </title>
  </head>
  <body>
    <h2>Registration Form</h2>
    <form action="/register">
      <label for="firstname">First name :</label>
      <input type="text" id="firstname" name="firstname">
      <br><br>
      <label for="lastname">Last name :</label>
      <input type="text" id="lastname" name="lastname">
      <br><br>
      <label for="email">Email :</label>
      <input type="email" id="email" name="email">
      <br><br>
      <input type="submit" value="Submit">
    </form>
  </body>
</html>
```

When you have updated the code, save the file. The page should now look like this:

A screenshot of a web browser displaying a registration form. The browser's address bar shows the URL "5500.theiadocker-0-labs-prod-theiak8s-3-tor01.proxy.cognitiveclass.ai/registration_form.html". The form has a title "Registration Form" in a large, bold, black serif font. Below the title, there are three text input fields, each preceded by a label: "First name :", "Last name :", and "Email :". The labels are in a black serif font. At the bottom of the form is a "Submit" button with a grey background and black text.

Add a fieldset

Now that the form is complete. We can use the **fieldset** tag to group the related elements of the form. The following code will group the elements in the form in a single box.

```

<!DOCTYPE html>
<html>
  <head>
    <title> Registration Form </title>
  </head>
  <body>
    <h2>Registration Form</h2>
    <form action="/register">
      <fieldset>
        <label for="firstname">First name :</label>
        <input type="text" id="firstname" name="firstname">
        <br><br>
        <label for="lastname">Last name :</label>
        <input type="text" id="lastname" name="lastname">
        <br><br>
        <label for="email">Email :</label>
        <input type="email" id="email" name="email">
        <br><br>
        <input type="submit" value="Submit">
      </fieldset>
    </form>
  </body>
</html>

```

Note: the fieldset is basically used in large form where you have to group the elements differently.

When you have updated the code, save the file. The page should now look like this:

Registration Form

First name :

Last name :

Email :

Add a legend tag

What if there are multiple elements inside a form that needed to be grouped separately. How are we going to identify them?

By using the **legend** tag, we can add a title to the grouped element to recognize them.

The following code will group the elements and segregate them with the help of title.

```

<!DOCTYPE html>
<html>
  <head>
    <title> Registration Form </title>
  </head>
  <body>
    <h2>Registration Form</h2>
    <form action="/register">
      <fieldset>
        <legend>Personal Information</legend>
        <label for="firstname">First name :</label>
        <input type="text" id="firstname" name="firstname">
        <br/><br/>
        <label for="lastname">Last name :</label>
        <input type="text" id="lastname" name="lastname">
        <br/><br/>
        <label for="email">Email :</label>
        <input type="email" id="email" name="email">
      </fieldset>
      <br/><br/>
      <fieldset>
        <legend>Education Qualification</legend>
        <label for="hdegree">Highest Degree :</label>
        <input type="text" id="hdegree" name="hdegree">
        <br/><br/>
        <label for="Collegename">College name :</label>
        <input type="text" id="Collegename" name="Collegename">
        <br/><br/>
        <label for="University">University :</label>
        <input type="text" id="University" name="University">
        <br/><br/>
      </fieldset>
      <br/><br/>
      <input type="submit" value="Submit">

    </form>
  </body>
</html>

```

When you have updated the code, save the file. The page should now look like this:

Registration Form

Personal Information

First name :

Last name :

Email :

Education Qualification

Highest Degree :

College name :

University :

Summary

Congratulations! You have learned how to create an HTML form with input fields. Don't stop there -- we encourage you to explore other controls, such as radio buttons and check boxes.

Tutorial details

Author: Ramesh Sannareddy

Change log:

Date	Version	Changed by	Change Description
2020-08-13	1.0	Ramesh Sannareddy	Initial version created
2021-09-01	1.1	Sourabh Mohan	Update with new HTML Tags

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