

WEB PROGRAMMING AND APPLICATIONS

(503073)

LAB 1

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Lab Objectives

By the end of this lab, students will be able to:

1. Understand and create basic HTML page structures using various elements such as tables, lists, forms, and multimedia.
2. Develop and design simple web pages incorporating interactive features like login and registration forms.
3. Utilize inline CSS for basic styling within HTML elements.
4. Embed multimedia content like video and audio in web pages.
5. Use Visual Studio Code and Live Server to build, preview, and debug HTML documents efficiently.

Preparation Requirements

1. Install Visual Studio Code on your computer.
2. Set up the Live Server extension in Visual Studio Code.
3. Ensure basic familiarity with the HTML syntax.
4. Prepare sample content (e.g., images, videos, and audio files) to use in your web pages.




Exercise 1. About Page

In this exercise, create a basic web page structure using an HTML table with 3 columns. Each column should display user information, including an image (using the `` tag), the user's name and position (using appropriate heading tags like `<h2>` or `<h3>`), a short description (using a `<p>` tag), and a list of the user's skills or expertise (using `` and `` tags). The goal is to organize the content in a clean and readable format using basic HTML elements.

About us page

Some text about who we are and what we do.
Resize the browser window to see that this page is responsive by the way.

Our Team

 <p>Jane Doe CEO & Founder Some text that describes me lorem ipsum ipsum lorem. Specializes in<ul style="list-style-type: none">• Javascript• C/C++• JavaContact</p>	 <p>Johnny Depp Product Owner Some text that describes me lorem ipsum ipsum lorem. Specializes in<ul style="list-style-type: none">a. Objective Cb. Swiftc. C/C++Contact</p>	 <p>Luke Evans Team Leader Some text that describes me lorem ipsum ipsum lorem. Specializes in<ul style="list-style-type: none">◦ C#◦ Visual Basic◦ TypescriptContact</p>
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The images should be responsive: their size will be increased automatically when we increase browser size (and vice versa).

Exercise 2. Design a Login Form

Email	<input type="text" value="email@domain.com"/>
Password	<input type="password" value="....."/>
Remember me	<input type="checkbox"/>
<input type="button" value="Login"/>	
Not registered? Creat an account	
For got your password? Click here to reset	

Email	<input type="text" value="email@domain.com"/>
Password	<input type="password" value="....."/>
Remember me	<input type="checkbox"/>
<input type="button" value="Login"/>	
Not registered? Creat an account	
For got your password? Click here to reset	

Please fill out this field.

In this exercise, design a basic login form with two text fields, a checkbox, and a button. Include two links that redirect to relevant pages. The form should be placed inside a hidden HTML table to align the elements properly. The form must send two pieces of information, 'email' and 'password', to the server at <http://localhost/login.php> using the **POST** method. Additionally, apply the default HTML form validation to ensure the text fields cannot be left empty, and that the email address entered is in the correct format.

3. HTML TABLE

Create an HTML table similar to the following table.

STUDENT SCHEDULE					
DAY/PERIOD	I	II	LUNCH	III	IV
MONDAY	Math	Physics			
TUESDAY	LAB				
WEDNESDAY	History	Music		SEMINAR	
THURSDAY	Physical Education	Swimming		Chemistry	Biology
FRIDAY	LAB			Geography	Informatics
SATURDAY	Math	Physics		LAB	
SUNDAY					Homework

Requirements:

1. All text contents are center aligned in every cell, both vertically and horizontally.
2. The merged cells are filled with a background color.

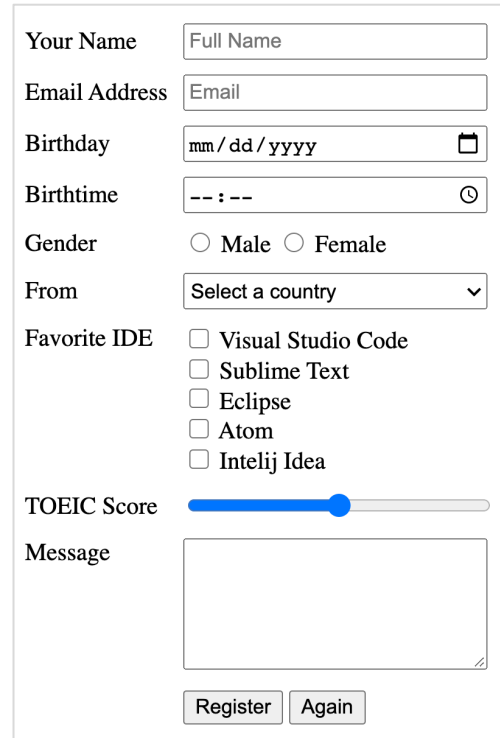
Hints:

1. Use the `<table>` tag for the entire table. Inside it are `<tr>` tags with each tag representing a table row. Each `<tr>` tag contains a list of `<td>` tags that represent table cells.
2. Use the `rowspan` attribute on the `<td>` tag to combine cells between different rows into one large cell. Similarly, use the `colspan` attribute on the `<td>` tag to combine cells from different columns into one large cell. These two properties can be used at the same time to create a large cell in both directions.

4. REGISTER FORM

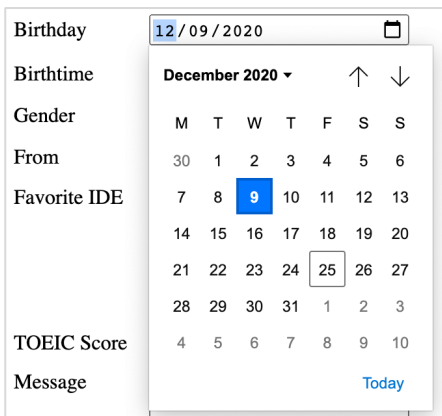
Requirements:

1. All form control elements should be left aligned.
2. For "Gender" field, only one option can be selected at a time.
3. For "Favorite IDE" and "Message" fields, their labels should be placed on top of the section.
4. If **Again** button is clicked, all input element values will be restored to their default value.

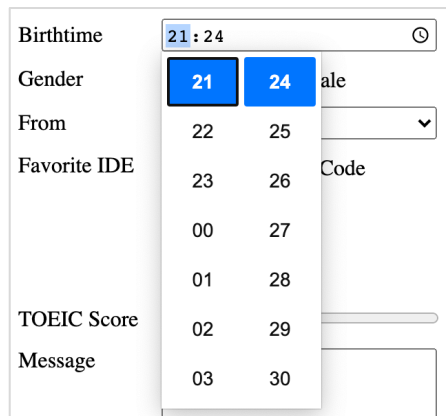


The Register Form contains the following fields and controls:

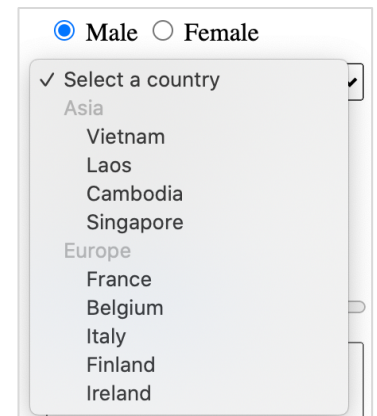
- Your Name:** Text input field with placeholder "Full Name".
- Email Address:** Text input field with placeholder "Email".
- Birthday:** Text input field with placeholder "mm/dd/yyyy" and a calendar icon.
- Birthtime:** Text input field with placeholder "--:--" and a clock icon.
- Gender:** Radio buttons for "Male" and "Female".
- From:** Dropdown menu with placeholder "Select a country".
- Favorite IDE:** Checkboxes for "Visual Studio Code", "Sublime Text", "Eclipse", "Atom", and "Intelij Idea".
- TOEIC Score:** A horizontal slider control.
- Message:** A large text area.
- Buttons:** "Register" and "Again" buttons at the bottom.



Close-up of the Birthday and Birthtime fields. The Birthday field shows a calendar for December 2020 with the 9th selected. The Birthtime field shows a time picker with 21:24 selected.



Close-up of the Gender and From fields. The Gender field shows radio buttons for "Male" and "Female". The From field shows a dropdown menu with "Select a country" as the selected option.



Close-up of the Favorite IDE and Message fields. The Favorite IDE field shows checkboxes for "Visual Studio Code", "Sublime Text", "Eclipse", "Atom", and "Intelij Idea". The Message field shows a large text area.

The form must submit its information to <http://localhost/register.php> using HTML **POST** method. The server expects to receive an **x-www-form-urlencoded** body containing the following keys: **name**, **email**, **birthday**, **birthtime**, **gender**, **country**, **favorite_ide**, **toeic**, **message**.

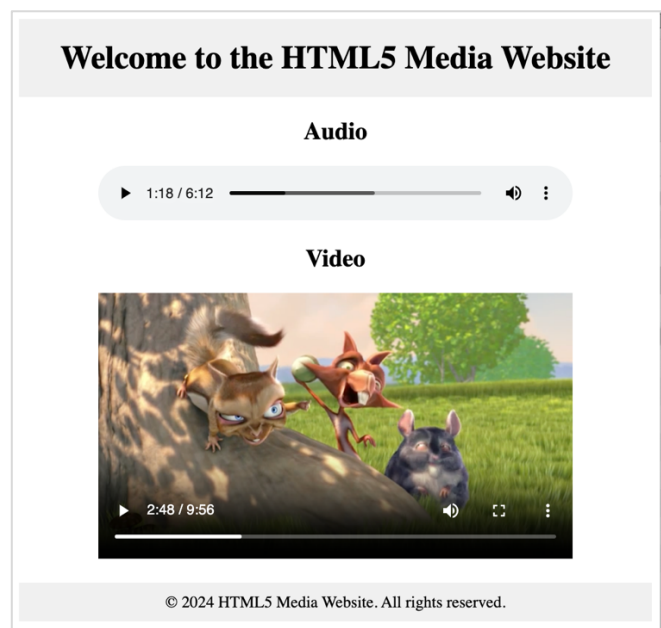
- For gender field: its value must be either 'male' or 'female'.
- For toeic field: the maximum value is 990, minimum value is 5 and each step would increase or decrease the value by a factor of 5.

Exercise 5. Build a simple website utilizing HTML following the structure depicted in the provided **ex5.jpg** image. The website should exclusively employ basic HTML tags, including headings, links, tables, images, and paragraphs. For the image, you can utilize the following URL:
<https://via.placeholder.com/600x300>.

Exercise 6. Create a simple HTML website that enables users to play an MP3 song and an MP4 video. You have the flexibility to choose any MP3 or MP4 file for this purpose.



Exercise 5



Exercise 6