

WEB PROGRAMMING AND APPLICATIONS

(503073)

LAB 1

by Mai Van Manh




The goal of this week's exercises is to create simple web pages using common html elements like tables, lists, forms, etc. Inline-CSS code can also be used in these exercises in order to improve the look and feel of the user interface.

1. ABOUT PAGE

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> |
|--|--|--|

The images should be responsive: their size will be increased automatically when we increase browser size (and vice versa).

2. 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 | <div><input type="password" value=""/><div>! Please fill out this field.</div></div> |
| Remember me | <input type="checkbox"/> |
| <input type="button" value="Login"/> | |
| Not registered? Creat an account | |
| For got your password? Click here to reset | |

The form need to submit its information to <https://web-503073-wiolshzi6q-uc.a.run.app/lab01/login> using HTTP **POST** method. The server expects to receive an *x-www-form-urlencoded* body containing two keys: **email** and **password**.

Requirements:

1. Form elements should be placed inside a hidden **table** element.
2. Remove underlines from all hyperlinks (<a> elements).
3. Password is the required field.
4. If a valid email address is not entered, the form should not be submitted (HTML5 feature).
5. Try to fix all the error messages outputted by the server until you get this success message.

Conguratulation! You have completed this exercise

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.

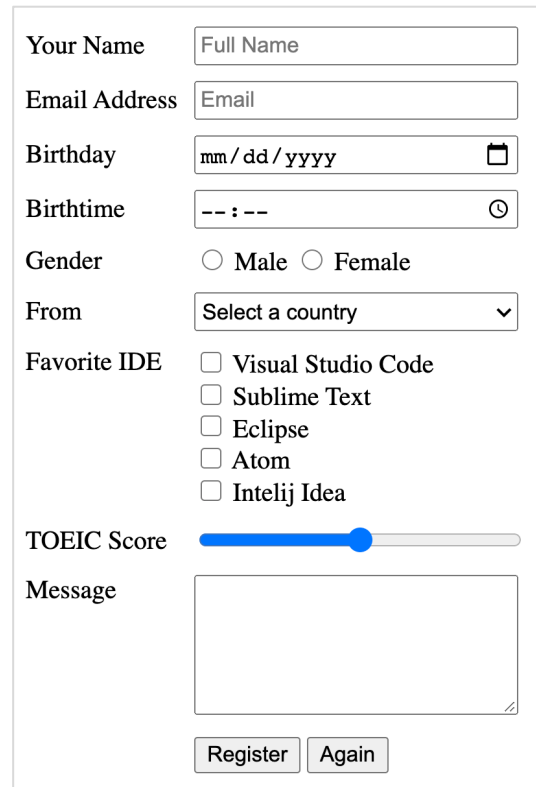
Hints:

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

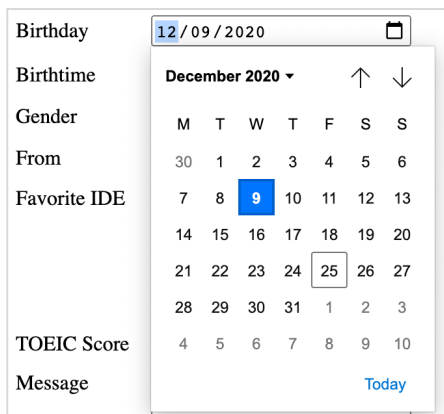
Requirements:

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.

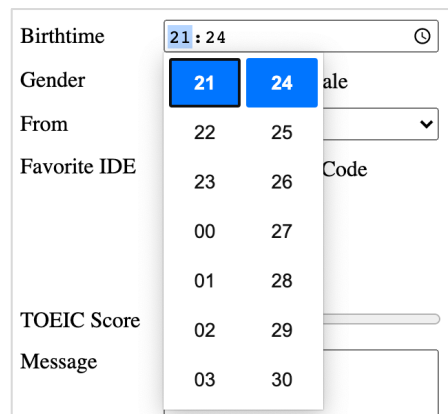


The main register form contains the following fields and controls:

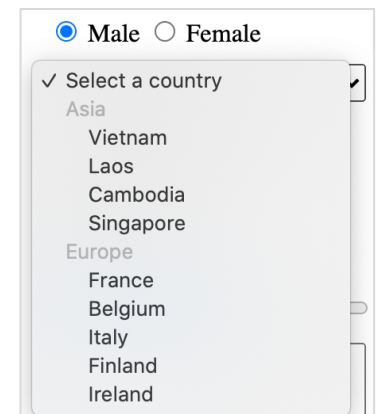
- Your Name:** Text input field with placeholder "Full Name".
- Email Address:** Text input field with placeholder "Email".
- Birthday:** Date picker showing "mm/dd/yyyy".
- Birthtime:** Time picker showing "--:--".
- Gender:** Radio buttons for "Male" and "Female".
- From:** Dropdown menu with placeholder "Select a country".
- Favorite IDE:** Group of checkboxes for "Visual Studio Code", "Sublime Text", "Eclipse", "Atom", and "Intelij Idea".
- TOEIC Score:** Range slider.
- Message:** 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" (selected) and "Female". The From field shows a dropdown menu with "Select a country" as the placeholder.



Close-up of the Favorite IDE and TOEIC Score fields. The Favorite IDE field shows checkboxes for "Visual Studio Code", "Sublime Text", "Eclipse", "Atom", and "Intelij Idea". The TOEIC Score field shows a range slider.

The form must submit its information to <https://web-503073-wiolshzi6q-uc.a.run.app/lab01/register> 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.
- Try to fix all the error messages outputted by server until you get a result similar to this screen:

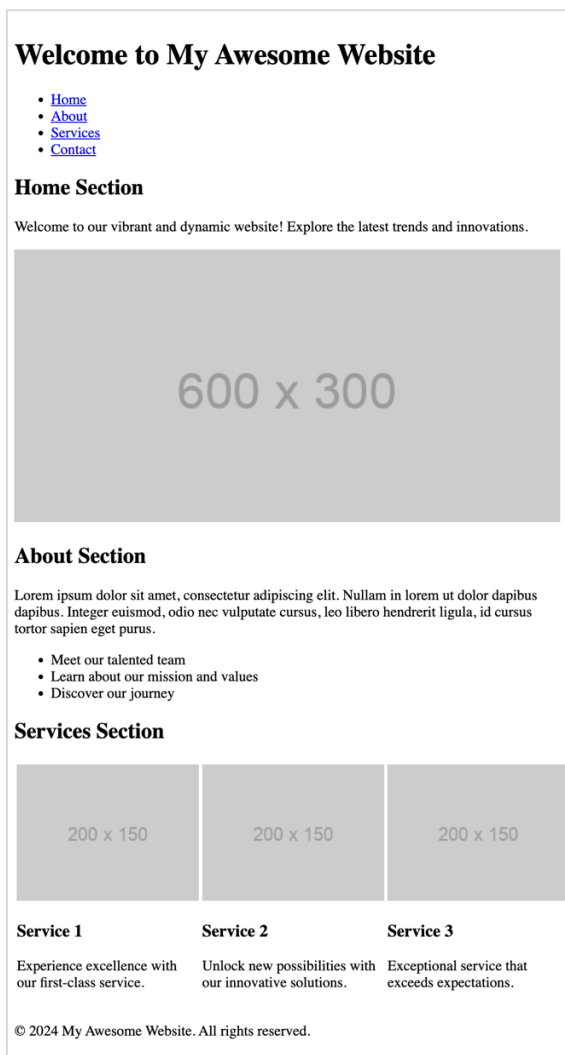
| | |
|---|---|
| Họ tên | Mai Van Manh |
| Email | mvmanh@gmail.com |
| Ngày sinh | 2020-12-12 |
| Giờ sinh | 11:45 |
| Giới tính | male |
| Quốc gia | Vietnam |
| IDE Yêu thích Hãy đảm bảo rằng các IDE bạn chọn đã hiển thị đủ | Visual Studio Code Sublime Text Eclipse Atom Intelij Idea |
| Điểm TOEIC | 990 |
| Giới thiệu bản thân | Hello |

HOMEWORK

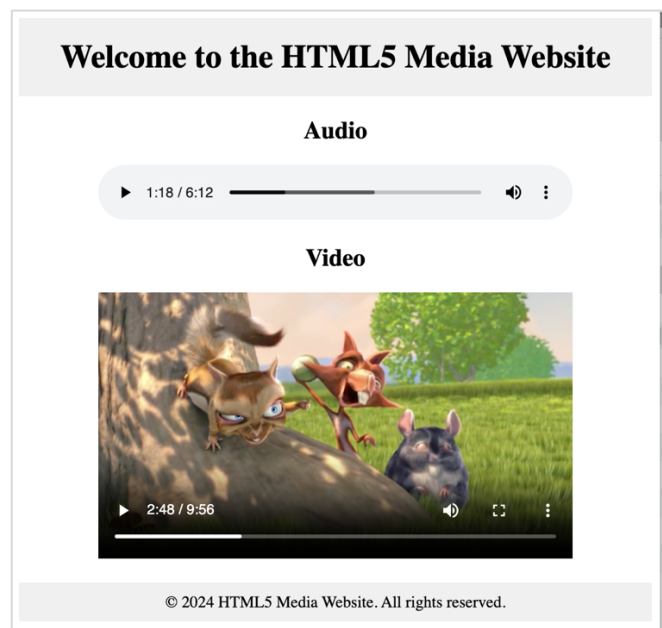
Exercise 5. Build a simple website utilizing HTML following the structure depicted in the provided **ex5.jpg** image. The website should exclusively employ basic HTML tags, including headings, links, tables, images, and paragraphs. For the image, you can utilize the following URL:

<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