HTML Exercises for Form

Practices Exercises to implement

Exercise #1
Signup Form

Includes Form Validation

Exercise #2
Search Flight Form

Exercise #3
Login Form

Exercise #1
Signup Form

Signup Form

- Signup Form should be implemented with the following fields.
  - Title
  - First Name
  - Last Name
  - Email
  - Mobile Number
  - Password
  - Confirm Password
  - Preferred Language
  - Receive Newsletter

Strat Hawk

Home My Bookings Destinations Login Signup

Signup

Title
○ Mr. ○ Mrs.

First Name   Last Name
[   ]   [   ]

Email   Mobile Number
[   ]   [   ]

Password   Confirm Password
[   ]   [   ]

Preferred Language
[Chinese   ▾]   ☐ Receive newsletters

[Register]

Signup Form fields and Validations

Form Field	Field Type	Validation
Title	Radio (Values: Mr., Mrs.)	Mandatory Field
First Name	Text	Mandatory Field
Last Name	Text	Mandatory Field
Email	Text	1) Mandatory Field 2) Correct email format
Mobile Number	Text	Should contain only numbers
Password	Password	1) Mandatory Field 2) 8 or more character 3) 1 upper case 4) 1 lower case
Confirm Password	Password	Validations same as Password field
Preferred Language	Drop Down List	
Receive Newsletter	Checkbox	
Register	Submit	Clicking this button should display login page

Mandatory Field
Form with mandatory fields should not be submitted if necessary value is not filled or selected.

For example, if the user tries to submit the form without entering any data in First Name field, then the form should not allowed to be submitted.

Values: Chinese, Spanish, English, Hindi, Portuguese

Implementation Guidelines

Step #1: Form Field Layout Design

1. <table> tag will help us define the form fields in two columns

2. The layout of the table with necessary <tr> and <td> tag is specified in the adjacent diagram for reference

Implementation Guidelines

Step #2: Include for form and table

1. Open Brackets

2. Open 'signup.html' in 'strat-hawk' folder

3. After the <h2> tag include <form> tag with attribute 'action' pointing to 'login.html'.

4. Within <form> tag include <table> tag

5. Within <table> tag include <tr> tag with cellpadding

6. Within <tr> tag include 2 <td> tags

7. Copy and paste the <tr> tag along with 2 <td> tag 5 times after the <tr> tag

```
<h2>Signup</h2>
<form action="login.html">

</form>
```

```
<table cellpadding="10">
    <tr>
        <td></td>
        <td></td>
    </tr>
</table>
```

```
<table>
    <tr>
        <td></td>
        <td></td>
    </tr>
    <tr>
        <td></td>
        <td></td>
    </tr>
    <tr>
        <td></td>
        <td></td>
    </tr>
    <tr>
        <td></td>
        <td></td>
    </tr>
    <tr>
        <td></td>
        <td></td>
    </tr>
    <tr>
        <td></td>
        <td></td>
    </tr>
</table>
```

Implementation Guidelines

Step #3: Include Title Radio and Register button

1. Open Brackets

2. Open 'signup.html' in 'strat-hawk' folder

3. Include <label> and radio buttons in the first <td> of the first <tr>

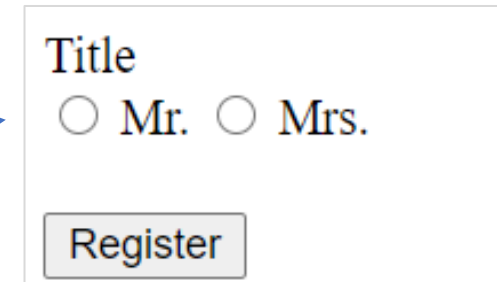4. Include submit button in the first <td> of the last <tr>

```html
<tr>
    <td>
        Title<br>
        <input type="radio" name="title" value="mister" id="mister" required>
        <label for="mister">Mr.</label>
        <input type="radio" name="title" value="missus" id="missus">
        <label for="missus">Mrs.</label>
    </td>
</tr>
<tr>
    <td></td>
    <td></td>
</tr>
<tr>
    <td></td>
    <td></td>
</tr>
<tr>
    <td></td>
    <td></td>
</tr>
<tr>
    <td></td>
    <td></td>
</tr>
<tr>
    <td><input type="submit" value="Register"></td>
    <td></td>
</tr>
```
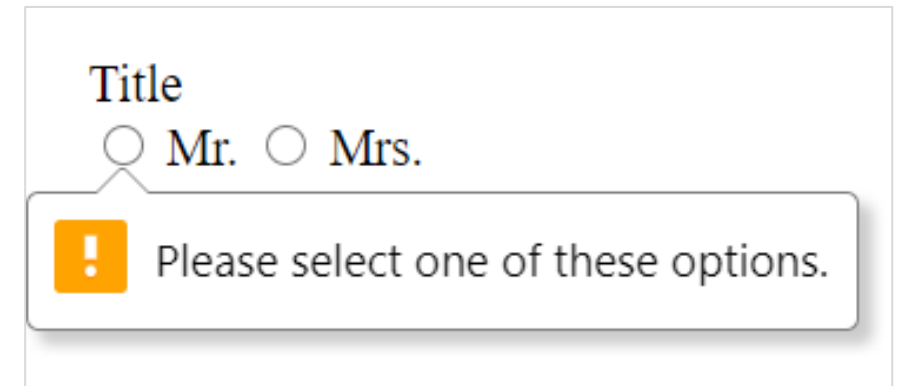
Implementation Guidelines

Step #4: Validate Radio Button

1. Launch signup.html page in Live Preview. Check the output.

2. Click "Register" button without selecting Mr. or Mrs. The form should not be submitted and a message should be displayed.

3. After selecting Mr. or Mrs. and then clicking "Register" should navigate the page to "login.html"

Title
○ Mr. ○ Mrs.

Register

Title
○ Mr. ○ Mrs.

⚠ Please select one of these options.

This message is displayed because of the required attribute

```
<input type="radio" name="title" value="mister" id="mister" required>
```

Implementation Guidelines

Step #5: Include all Labels

1. Include labels in respective <td> tag

2. Don't miss to include the <br> tag after each label

3. The included label tags are underlined

```html
<table cellpadding="10">
    <tr>
        <td>
            Title<br>
            <input type="radio" name="title" value="mister" id="mister" required>
            <label for="mister">Mr.</label>
            <input type="radio" name="title" value="missus" id="missus">
            <label for="missus">Mrs.</label>
        </td>
    </tr>
    <tr>
        <td><label for="firstName">First Name</label><br></td>
        <td><label for="lastName">Last Name</label><br></td>
    </tr>
    <tr>
        <td><label for="email">Email</label><br></td>
        <td><label for="mobileNumber">Mobile Number</label><br></td>
    </tr>
    <tr>
        <td><label for="password">Password</label><br></td>
        <td><label for="confirmPassword">Confirm Password</label><br></td>
    </tr>
    <tr>
        <td><label for="language">Preferred Language</label><br></td>
    </tr>
    <tr>
        <td><input type="submit" value="Register"></td>
        <td></td>
    </tr>
</table>
```

Implementation Guidelines

Step #6: Include first name, last name, email, mobile number

1. Include input text fields for First Name, Last Name, Email and Mobile Number

2. Notice that except Mobile Number all other fields are marked with 'required'. This validates if the respective field data is entered in or not.

3. Launch in Live Preview and validate the following aspects:

   1. Check if each label click creates focus to the field.

   2. Clicking 'Register' without entering value should result in message

```html
<tr>
    <td>
        <label for="firstName">First Name</label><br>
        <input type="text" name="firstName" id="firstName" required>
    </td>
    <td>
        <label for="lastName">Last Name</label><br>
        <input type="text" name="lastName" id="lastName" required>
    </td>
</tr>
<tr>
    <td>
        <label for="email">Email</label><br>
        <input type="text" name="email" id="email" required>
    </td>
    <td>
        <label for="mobileNumber">Mobile Number</label><br>
        <input type="text" name="mobileNumber" id="mobileNumber">
    </td>
</tr>
```

First Name

Last Name

! Please fill out this field.

Mobile Number

Implementation Guidelines

Step #6: Include password fields, preferred language and newsletters

1. Include Password and Confirm Password as 'password' type with 'required' attribute

2. Include 'Preferred Language' drop down

3. Include checkbox for 'Receive Newsletter'

```html
<tr>
    <td>
        <label for="password">Password</label><br>
        <input type="password" name="password" id="password" required>
    </td>
    <td>
        <label for="confirmPassword">Confirm Password</label><br>
        <input type="password" name="confirmPassword" id="confirmPassword" required>
    </td>
</tr>
<tr>
    <td>
        <label for="language">Preferred Language</label><br>
        <select name="language" id="language">
            <option>Chinese</option>
            <option>Spanish</option>
            <option>English</option>
            <option>Hindi</option>
            <option>Portuguese</option>
        </select>
    </td>
    <td>
        <input type="checkbox" name="newsletter" id="newsletter">
        <label for="newsletter">Receive newsletters</label>
    </td>
</tr>
```

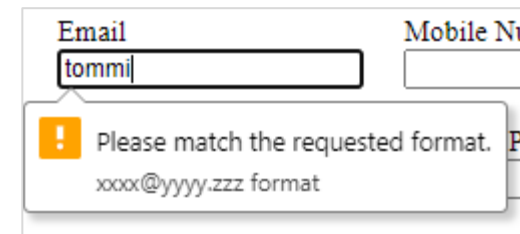# Implementation Guidelines

Step #6: Include email validation

1. Validate correctness of email id format using 'pattern' and 'title' attribute.

2. The value given for 'pattern' is called as 'Regular Expression'

3. Check if message is displayed like this if incorrect email id format is entered by user

```
<input type="text" name="email" id="email"
       pattern="[a-z0-9._%+-]+@[a-z0-9.-]+\.[a-z]{2,}$"
       required title="xxxx@yyyy.zzz format">
```

Copy pattern from below text:
[a-z0-9._%+-]+@[a-z0-9.-]+\.[a-z]{2,}$

Email   Mobile Nu
tommi
! Please match the requested format. P
xxxx@yyyy.zzz format

Implementation Guidelines

Step #6: Validation for mobile number, password and confirm password
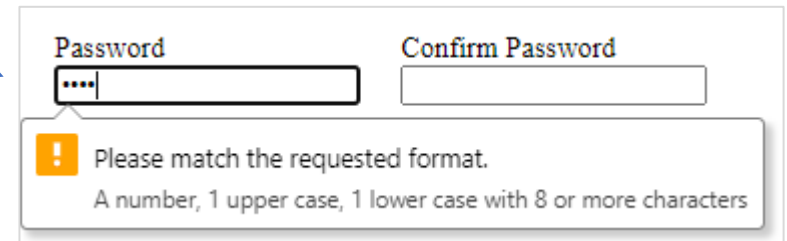
1. Include 'pattern' attribute for 'Mobile Number'

```html
<input type="text" name="mobileNumber" id="mobileNumber" pattern="[0-9]{10}">
```

2. Include 'pattern' and 'title' attribute for 'Password'

```html
<input type="password" name="password" id="password"
       pattern="(?=.*\d)(?=.*[a-z])(?=.*[A-Z]).{8,}"
       title="A number, 1 upper case, 1 lower case with 8 or more characters" required>
```

3. Refer expected output

Copy pattern from below text:
`(?=.*\d)(?=.*[a-z])(?=.*[A-Z]).{8,}`

4. Implement similar validation

   for 'Confirm Password' as well.

Password   Confirm Password
[••••   ]   [   ]

! Please match the requested format.
  A number, 1 upper case, 1 lower case with 8 or more characters

Code Reference

- GitHub code reference link:

  https://github.com/simplacademy/html-learn/blob/9d43cbac2d8734c020701de9dfbce443ea68ebd6/strat-hawk/signup.html

Exercise #2
Search Flight Form

Search Flight

In Landing Page, we will implement the 'Search Flights' section. Find below the fields details and validations to be done.

Implementation Guidelines

1. Open Brackets

2. Open 'index.html' from 'strat-hawk' folder

3. Include <h2> after <img> tag with content as 'Search Flights'

4. After <h2> include <form> tag with 'action' attribute referring to 'index.html' necessary tags to display input fields for From, To, Travel Date, Class and Register submit button.

5. Within form tag include all input elements based on the inputs provided in the adjacent table.

6. Include relevant 'placeholder' attribute for From, To and Travel Date

Form Field	Field Type	Validation
From	Text	Mandatory Field
To	Text	Mandatory Field
Travel Date	Text	Mandatory Field Date should be in yyyy-mm-dd format.
Class	Drop Down List • Economy • Business • First	
Search	Submit	

7. To find the Travel Date pattern, search in internet with keywords "regular expression for date in yyyy-mm-dd".

8. Include 'required' attribute for From, To and Travel Date

9. Launch Live Preview and verify each field

Code Reference
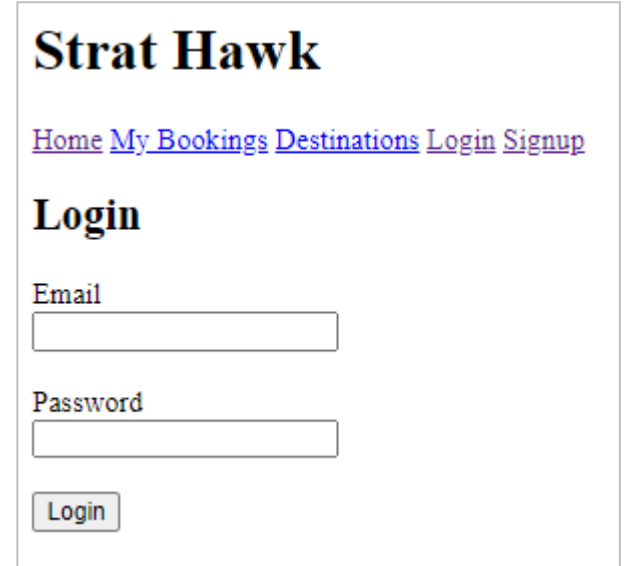
- GitHub code reference link:

  https://github.com/simplacademy/html-learn/blob/9d43cbac2d8734c020701de9dfbce443ea68ebd6/strat-hawk/index.html

Exercise #3
Login Form

Login

- Implement login page similar to the layout specified here.

- Clicking 'Login' should display 'index.html'

- Login should work only when email and password field is filled up.

- Email format validation is not required.

Implementation Guidelines

1. Open Brackets

2. Open 'login.html' from 'strat-hawk' folder

3. After <h2> include <form> tag with 'action' attribute referring to 'index.html'.

4. Include form fields email and password referring the coding we have done so far.

Code Reference

- ## Click on this link

  https://github.com/simplacademy/html-learn/blob/4d1bf195fa6c48eae4afce8e539ce314ea8b5477/strat-hawk/login.html

Congratulations on completing the exercises

Proceed with next learning topic in the HTML Course