

# 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

**Signup**

<code>&lt;table&gt;</code>	<code>&lt;td&gt;</code>	<code>&lt;td&gt;</code>
<code>&lt;tr&gt;</code>	Title <input type="radio"/> Mr. <input type="radio"/> Mrs.	
<code>&lt;tr&gt;</code>	First Name <input type="text"/>	Last Name <input type="text"/>
<code>&lt;tr&gt;</code>	Email <input type="text"/>	Mobile Number <input type="text"/>
<code>&lt;tr&gt;</code>	Password <input type="password"/>	Confirm Password <input type="password"/>
<code>&lt;tr&gt;</code>	Preferred Language <input type="text" value="Chinese"/> ▼	<input type="checkbox"/> Receive newsletters
<code>&lt;tr&gt;</code>	<input type="button" value="Register"/>	

# 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>
```

[illegible]

# 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>

```
<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></td>
  <td></td>
</tr>
<tr>
  <td><input type="submit" value="Register"></td>
  <td></td>
</tr>
```

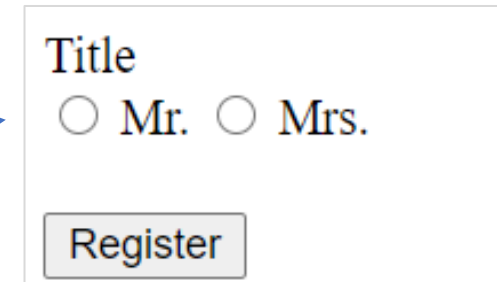




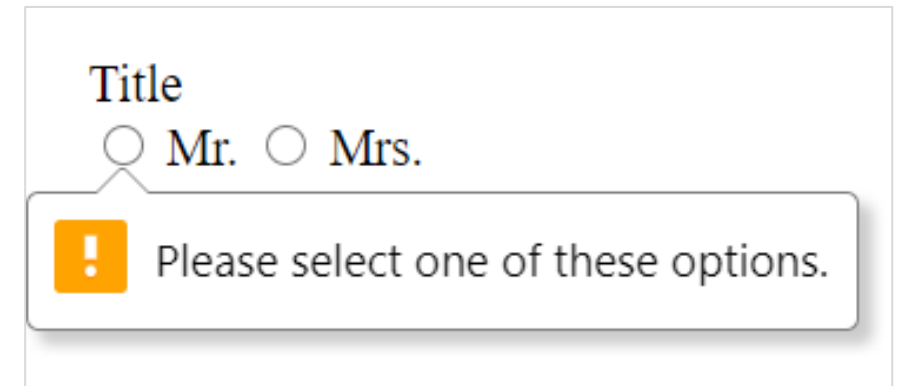
# Implementation Guidelines

## 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"



A screenshot of a web form titled "Title" with two radio buttons labeled "Mr." and "Mrs.". Below the radio buttons is a "Register" button. A blue arrow points from the first list item to this form.



A screenshot of the same form as above, but with an error message displayed below the radio buttons. The message is enclosed in a box with a yellow exclamation mark icon and the text "Please select one of these options." A blue arrow points from the second list item to this form.

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


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

```
<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
<input type="text"/>	<input type="text"/>
Mobile Number	<input type="text"/>

# 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'

```
<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

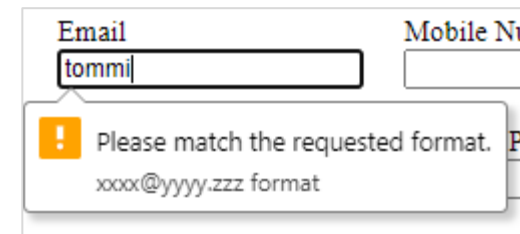
## Step #6: Include email validation

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,}\$**



The screenshot shows a web form with two input fields: 'Email' and 'Mobile Nu'. The 'Email' field contains the text 'tommi'. Below the 'Email' field, there is a red error message box with an exclamation mark icon. The message reads: 'Please match the requested format. P' followed by 'xxxx@yyyy.zzz format' on the next line. The 'Mobile Nu' field is empty.

# Implementation Guidelines

Step #6: Validation for mobile number, password and confirm password

1. Include 'pattern' attribute for 'Mobile Number'

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

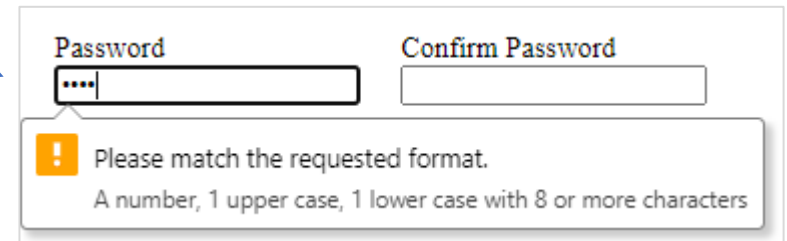
2. Include 'pattern' and 'title' attribute for 'Password'

```
<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
4. Implement similar validation for 'Confirm Password' as well.

Copy pattern from below text:

`(?=.*\d)(?=.*[a-z])(?=.*[A-Z]).{8,}`



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.

## Strat Hawk

[Home](#) [My Bookings](#) [Destinations](#) [Login](#) [Signup](#)

### Plan



### Search Flights

<input type="text" value="From"/>	<input type="text" value="To"/>	<input type="text" value="Travel Date yyyy-mm-dd"/>	<input type="text" value="Economy"/>	<input type="button" value="Search"/>
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### Recommended Flights

Flight	Departure	Duration	Arrival	Cost	Book
SH288	Berlin (BER) 21:00 Wed 28 Oct 2020	49 hrs 5 mins	Sydney (SYD) 08:05 Sat 31 Oct 2020	\$3447	<input type="button" value="Book"/>
SH245	Sydney (SYD) 22:25 Tue 10 Nov 2020	23 hrs 55 mins	Berlin (BER) 12:20 Wed 11 Nov 2020	\$801	<input type="button" value="Book"/>

# 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 <ul style="list-style-type: none"><li>• Economy</li><li>• Business</li><li>• First</li></ul>	
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:

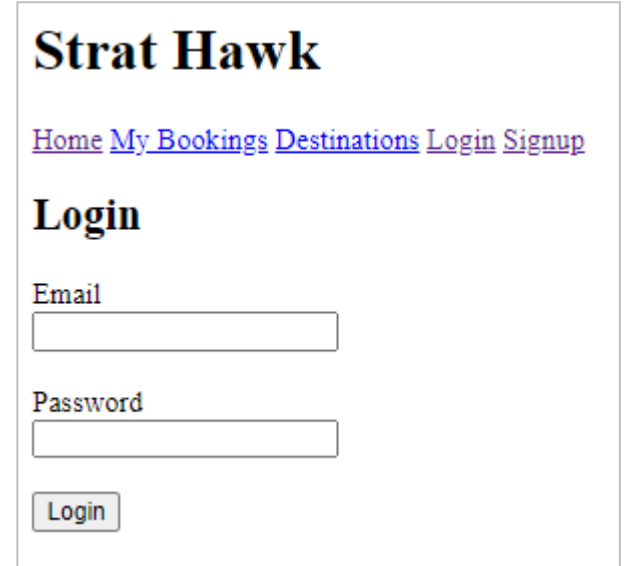
<https://github.com/simplacademy/html-learn/blob/9d43cbac2d8734c020701de9dfbce443ea68ebd6/strat-hawk/index.html>

# **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.



The screenshot shows a web page for 'Strat Hawk'. At the top, the name 'Strat Hawk' is displayed in a bold, black, serif font. Below it is a horizontal navigation menu with links: 'Home', 'My Bookings', 'Destinations', 'Login', and 'Signup', all in a blue, underlined, sans-serif font. The main heading 'Login' is in a bold, black, serif font. Below this are two input fields: 'Email' and 'Password', both in a black, sans-serif font. The 'Email' field is a single-line text box, and the 'Password' field is a single-line text box. Below the 'Password' field is a 'Login' button with a black border and the word 'Login' in a black, sans-serif font.

# 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

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