



前端網絡開發人員證書

8. HTML: Form II

Presented by Krystal Educational Platform



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8.1 Revise

8.1 Revise



- What is form?
- Can you name any input types? (e.g. text)
- Which input attribute helps you to change the default value in most of cases?
- How to create a dropdown? (Name the tags)



8.2 Search form

8.2 Search form



- To create a search form

```
<!-- SiteSearch Google -->
<form method="get" action="http://www.google.com/search" target="_blank">
  <a href="http://www.google.com/" target="_blank">
    </a>
    <input type="search" name="q" value="">
    <input type="submit" name="submit-btn" value="Search">
</form>
```



8.2 Search form



- This turns the google logo  into a hyperlink to google website

```
<a href="http://www.google.com/" target="_blank">
|   </a>
```

- name = “q” is the most common name for a search input
- The search input will NOT be recognized if its name is not “q”
- value **MUST** be defined

```
<input type="search" name="q" value="">
```



8.3 Validation

8.3.1 Validation: Input attributes



- minlength
 - Limits the minimum length
- maxlength
 - Limits the maximum length
 - Once reached the maxlength:
 - users cannot type anything more
- required
 - The input is required

```
<form>
  <label for="name">Name</label>
  <input id="name" name="name" minlength="6" maxlength="20" required>
  <input type="submit" value="Submit">
</form>
```

Name Submit

! 請填寫這個欄位。

Name a Submit

! 請將這段文字加長到 6 個字元以上 (目前已有 1 個字元)。

8.3.2 Validation: Pattern



- pattern
 - Restrict the input
 - [0-9]: Users can enter 0-9 only
 - {8}: Users must enter 8 characters

```
<input type="tel" id="phone" name="phone" maxlength="8" pattern="[0-9]{8}" required>
```

Phone no. Submit

! 請符合要求的格式。

8.3.2 Validation: Pattern



- Letters only: [a-zA-Z]+
- Small / capital letters only: [a-zA-Z]
- Small letters only, 6-20 characters: [a-z]{6,20}
- Letters & no. & -_. only: [a-zA-Z0-9-_]+
- Must start with letters: [a-zA-Z][a-zA-Z0-9]
- #####-#####-#####: \d{3}-\d{8}
- +#####-#####-#####:[+]\d{3}-\d{8}

8.3.2 Validation: Pattern



- For more complicated examples:
<https://www.html5pattern.com/>



8.4 Exercise

8.4.1 Exercise: Login



- All inputs are required
- Username
 - Maxlength: 20
- Password
 - Maxlength: 20

Login

Username

Password

[Create account](#)

[Forgot password](#)

8.4.1 Exercise: Login



- If you want to make the hyperlinks functional,
- Open new HTML files
- E.g. 

```
<a href="createAC.html" alt="Create account">Create account</a>
```

8.4.1 Exercise: Login



- Open the form

```
<!-- Login -->
<h3>Login</h3>
<form id="loginForm">
</form>
```

- Add username label & input text in the form

```
<label for="uname">Username</label>
<input id="uname" name="uname" placeholder="Enter username" maxlength="20" required>
```

Login

Username

8.4.1 Exercise: Login



- Add password label & input
 - Add suitable
 to break lines for a better layout

```
<br>
<label for="pw">Password</label>
<input id="pw" name="pw" type="password" placeholder="Enter password" maxlength="20" required>
```

Password

- Add login input submit button

```
<br>
<input type="submit" value="Login">
```

Login

8.4.1 Exercise: Login



- Add hyperlinks for creating account & forgot password

```
<br>
<a href="" alt="Create account">Create account</a>
<br>
<a href="createAC.html" alt="Create account">Create account (with the new "createAC.html")</a>
<br>
<a href="" alt="Forgot password">Forgot password</a>
```

Create account
Create account (with the new "createAC.html")
Forgot password

8.4.1 Exercise: Login



```
<!-- Login -->
<h3>Login</h3>
<form id="loginForm">
  <label for="uname">Username</label>
  <input id="uname" name="uname" placeholder="Enter username" maxlength="20" required>
  <br>
  <label for="pw">Password</label>
  <input id="pw" name="pw" type="password" placeholder="Enter password" maxlength="20" required>
  <br>
  <input type="submit" value="Login">
  <br>
  <a href="" alt="Create account">Create account</a>
  <br>
  <a href="" alt="Forgot password">Forgot password</a>
</form>
```

8.4.2 Exercise: Create account



- All inputs are required
- Name
 - Letters / space only
 - Maxlength: 30
- Email
 - Maxlength: 40
- Username
 - Letters / no. / _ only
 - Length: 6-20
- Password & Confirm password
 - Length: 8-20

Create account

Name

Gender

Female Male Other Secret

Email

Username

Password

Comfirm password

(Note: This function requires JS, will teach in the later lessons.)

`onkeypress="JS function"`

8.4.2 Exercise: Create account



- Open the form

```
<!-- Create account -->
<h3>Create account</h3>
<form id="createAC-form">
</form>
```

- Add name label & input text

```
<label for="contactName">Name</label>
<input id="contactName" name="contactName" placeholder="e.g. Choco Lau" pattern="[a-zA-Z ]+" maxlength="30" required>
```

Create account

Name

SCOPE
School of Continuing and Professional Education
香港專上學院
A.Y.U.-C.P.E.

KRYSTAL INSTITUTE
DIGITAL CITIZEN DOME TECHNOLOGY

8.4.2 Exercise: Create account



- Add gender label & input radio

```
<br>
<label for="gender">Gender</label><br>
<input type="radio" name="gender" id="female" value="F" required>Female
<input type="radio" name="gender" id="male" value="M" required>Male
<input type="radio" name="gender" id="other" value="other" required>Other
<input type="radio" name="gender" id="secret" value="secret" required>Secret
```

Gender
○ Female ○ Male ○ Other ○ Secret

8.4.2 Exercise: Create account



- Add email label & input text

```
<br>
<label for="email">Email</label>
<input type="email" id="email" name="email" maxlength="40" placeholder="e.g. ABC@email.com" required>
```

Email e.g. ABC@email.com

- Add username label & input text

```
<br>
<label for="uname">Username</label>
<input id="uname" name="uname" placeholder="Letters/Numbers/_ only" pattern="[a-zA-Z0-9_]+" minlength="6" maxlength="20" required>
```

Username Letters/Numbers/_ only

8.4.2 Exercise: Create account



- Add password label & input

```
<br>
<label for="pw1">Password</label>
<input id="pw1" name="pw1" type="password" placeholder="Enter password" minlength="8" maxlength="20" required>
```

Password

- Add confirm password label & input

```
<br>
<label for="pw2">Comfirm password <br>(Note: This function requires JS, will teach in the later lessons.)</label><br>
<input id="pw2" name="pw2" type="password" minlength="8" maxlength="20" onkeypress="" required>
```

Comfirm password
(Note: This function requires JS, will teach in the later lessons.)

8.4.2 Exercise: Create account



- Add create input submit button

```
<br>
<input type="submit" value="Create">
```

Create

8.4.2 Exercise: Create account



```
<!-- Create account -->
<h3>Create account</h3>
<form id="createAC-form">
  <label for="contactName">Name</label>
  <input id="contactName" name="contactName" placeholder="e.g. Choco Lau" pattern="[a-zA-Z]+" maxlength="30" required>
  <br>
  <label for="gender">Gender</label><br>
  <input type="radio" name="gender" id="female" value="F" required>Female
  <input type="radio" name="gender" id="male" value="M" required>Male
  <input type="radio" name="gender" id="other" value="other" required>Other
  <input type="radio" name="gender" id="secret" value="secret" required>Secret
  <br>
  <label for="email">Email</label>
  <input type="email" id="email" name="email" maxlength="40" placeholder="e.g. ABC@email.com" required>
  <br>
  <label for="uname">Username</label>
  <input id="uname" name="uname" placeholder="Letters/Numbers/_ only" pattern="[a-zA-Z0-9_]+" minlength="6" maxlength="20" required>
  <br>
  <label for="pw1">Password</label>
  <input id="pw1" name="pw1" type="password" placeholder="Enter password" minlength="8" maxlength="20" required>
  <br>
  <label for="pw2">Comfirm password <br>(Note: This function requires JS, will teach in the later lessons.)</label><br>
  <input id="pw2" name="pw2" type="password" minlength="8" maxlength="20" onkeypress="" required>
  <br>
  <input type="submit" value="Create">
</form>
```

8.4.3 Exercise: Forgot password



- Input is required

Forgot password

Enter your username / Email

(Note: This function also requires JS/Python to check the user database.)

Submit

8.4.3 Exercise: Forgot password



- Open the form

```
<!-- Forgot password -->
<h3>Forgot password</h3>
<form id="forgotPW-form">
</form>
```

- Add forgot password label & input text

```
<label for="forgotPW-input">Enter your username / Email
|   <br>(Note: This function also requires JS/Python to check the user database.)</label><br>
<input id="forgotPW-input" name="forgotPW-input" required>
```

Forgot password

Enter your username / Email

(Note: This function also requires JS/Python to check the user database.)

8.4.3 Exercise: Forgot password



- Add submit label & input button

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

Submit

8.4.3 Exercise: Forgot password



```
<!-- Forgot password -->
<h3>Forgot password</h3>
<form id="forgotPW-form">
    <label for="forgotPW-input">Enter your username / Email</label>
    <br>
    <input id="forgotPW-input" name="forgotPW-input" required>
    <br>
    <input type="submit" value="Submit">
</form>
```

8.4.4 Exercise: Contact Us



- All inputs are required
- Name
 - Letters / space only
 - Maxlength: 30
- Email
 - Maxlength: 40

Contact Us

Name

Email

Subject

8.4.4 Exercise: Contact Us



- Open the form

```
<!-- Contact us -->
<h3>Contact Us</h3>
<form id="contactForm">
</form>
```

- Add name label & input text

```
<label for="contactName">Name</label>
<input id="contactName" name="contactName" placeholder="e.g. Choco Lau" pattern="[a-zA-Z]+[a-zA-Z]" maxlength="30" required>
```

8.4.4 Exercise: Contact Us



- Add email label & input

```
<br>
<label for="email">Email</label>
<input type="email" id="email" name="email" maxlength="40" placeholder="e.g. ABC@email.com" required>
```

Email e.g. ABC@email.com

8.4.4 Exercise: Contact Us



- Add subject label & text area

```
<br>
<label for="subject">Subject</label><br>
<textarea id="subject" name="subject" placeholder="Say something.." rows="4" cols="30" required></textarea>
```

Subject

Say something..

- Add submit input button

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

Submit

8.4.4 Exercise: Contact Us



```
<!-- Contact us -->
<h3>Contact Us</h3>
<form id="contactForm">
  <label for="contactName">Name</label>
  <input id="contactName" name="contactName" placeholder="e.g. Choco Lau" pattern="[a-zA-Z]+" maxlength="30" required>
  <br>
  <label for="email">Email</label>
  <input type="email" id="email" name="email" maxlength="40" placeholder="e.g. ABC@email.com" required>
  <br>
  <label for="subject">Subject</label><br>
  <textarea id="subject" name="subject" placeholder="Say something.." rows="4" cols="30" required></textarea>
  <br>
  <input type="submit" value="Submit">
</form>
```

8.4.5 Exercise: Credit card



- All inputs are required
- First & last name
 - Letters / space only
 - Maxlength: 30
- Credit card no.
 - Maxlength: 19
- Expiration date
 - Maxlength: 5
- Security code
 - Maxlength: 3

Credit card

First name

Last name

Credit card number

Expiration date

Security code

8.4.5 Exercise: Credit card



- Open the form

```
<!-- Payment -->
<h3>Credit card</h3>
<form id="payment-form">
</form>
```

8.4.5 Exercise: Credit card



- Add first name label & input text

```
<label for="firstname">First name</label>
<input id="firstname" name="firstname" pattern="[a-zA-Z]+" maxlength="30" required>
```

Credit card

First name

- Add last name label & input text

```
<label for="lastname">Last name</label>
<input id="lastname" name="lastname" pattern="[a-zA-Z]+" maxlength="30" required>
```

Last name

8.4.5 Exercise: Credit card



- Add credit card number label & input text

```
<br>
<label for="ccnum">Credit card number</label>
<input id="ccnum" name="ccnum" pattern="\d{4}[- /.]\d{4}[- /.]\d{4}[- /.]\d{4}"
placeholder="xxxx-xxxx-xxxx-xxxx" maxlength="19" required>
```

Credit card number

8.4.5 Exercise: Credit card



- Credit card no.

```
pattern="\d{4}[- /.]\d{4}[- /.]\d{4}[- /.]\d{4}"
```

- d for digit: Enters numbers only
- {4}: Requires 4 digits
- [- /.]: One of them is required
- E.g. 1234-1234-1234-1234
1234 1234 1234 1234

8.4.5 Exercise: Credit card



- Add expiration date label & input text

```
<br>
<label for="ccExp">Expiration date</label>
<input id="ccExp" name="ccExp" pattern="(0[1-9]|1[012])[- /.](2[1-9]| [345][0-9])"
placeholder="MM/YY" maxlength="5" required>
```

Expiration date

8.4.5 Exercise: Credit card



- Expiration date (MM/YY)

```
pattern="(0[1-9]|1[012])[- /.](2[1-9]| [345][0-9])"
```

- MM (01-12)

- 0[1-9]: Enters 01/02/ ... 08/09 only
- | : OR
- 1[012]: Enters 10/11/12 only
- [- /.]: Requires one of them in-between

- YY (21-59)

- 2[1-9]: Enters 21/22/ ... 28/29 only
- [345][0-9]: Enters 30/31/ ... 58/59 only

8.4.5 Exercise: Credit card



- Add security code label & input text

```
<br>
<label for="cvc">Security code</label>
<input id="cvc" name="cvc" pattern="[0-9]{3}" placeholder="CVC" maxlength="3" required>
```

Security code

- Add continue to checkout label & input submit button

```
<br>
<input type="submit" value="Continue to checkout">
```

8.4.5 Exercise: Credit card



```
<!-- Payment -->
<h3>Credit card</h3>
<form id="payment-form">
  <label for="firstname">First name</label>
  <input id="firstname" name="firstname" pattern="[a-zA-Z]+" maxlength="30" required>
  <label for="lastname">Last name</label>
  <input id="lastname" name="lastname" pattern="[a-zA-Z]+" maxlength="30" required>
  <br>
  <label for="ccnum">Credit card number</label>
  <input id="ccnum" name="ccnum" pattern="\d{4}[- /.]\d{4}[- /.]\d{4}[- /.]\d{4}" placeholder="xxxx-xxxx" maxlength="19" required>
  <br>
  <label for="ccExp">Expiration date</label>
  <input id="ccExp" name="ccExp" pattern="(0[1-9]|1[012])[- /.](2[1-9]| [345][0-9])" placeholder="MM/YY" maxlength="5" required>
  <br>
  <label for="cvc">Security code</label>
  <input id="cvc" name="cvc" pattern="[0-9]{3}" placeholder="CVC" maxlength="3" required>
  <br>
  <input type="submit" value="Continue to checkout">

</form>
```

Reference



- HTML5Pattern (2021). *WELCOME...* [online] available from <<https://www.html5pattern.com/>> [20 May 2021]
- W3Schools (2021). *HTML Tutorial* [online] available from <<https://www.w3schools.com/html/default.asp>> [20 May 2021]