

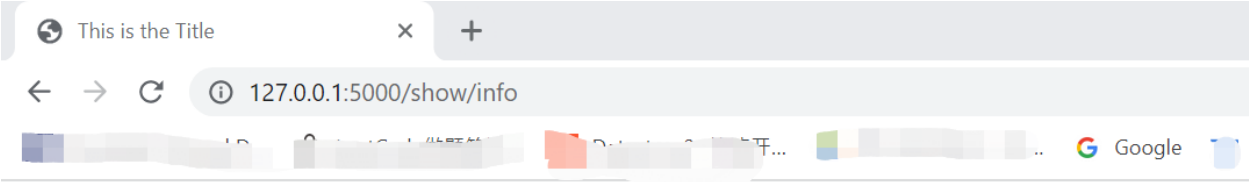
# HTML Labels

`<h1></h1>`, `<div></div>` `<span></span>`

```
<!-- index.html -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>This is the Title</title>
</head>
<body>
  <h1>Info shown</h1>
  <h2>second large</h2>
  <h3>third large</h3>
  <h4>forth large</h4>

  <div>Block-level label, take whole line</div>
  <div>
    <span>Inline label, only take space it need...</span>
    <span>...Inline label, will have space between two span, if span in diff lines</span>
  </div>
  <div>
    <span>Inline label1...</span><span>...Inline label2, no space when same line</span>
  </div>

  <div>
    <!-- if in the same line, why use span instead of div -->
    <!-- may need diff style-->
    <span style="color: coral">Style 1</span> <span>Style 2</span>
  </div>
</body>
</html>
```



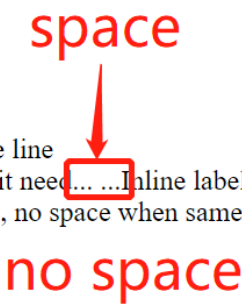
## Info shown

### second large

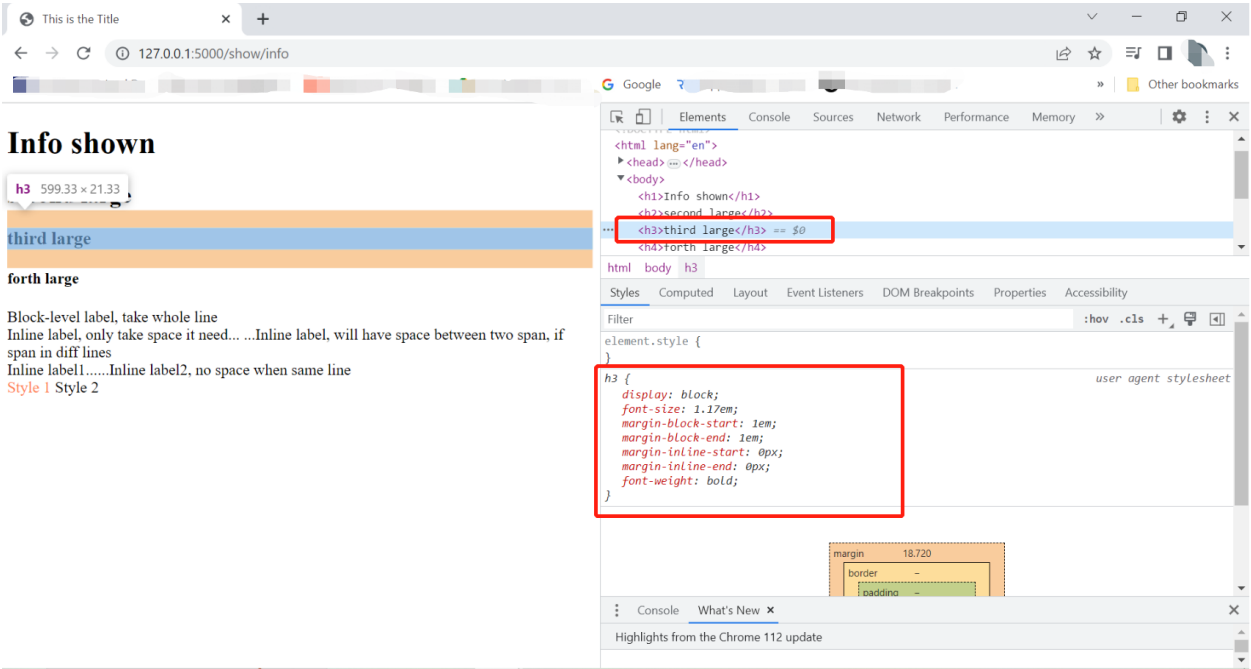
### third large

### forth large

Block-level label, take whole line  
Inline label, only take space it need... ..Inline label, will have space between two span, if span in diff lines  
Inline label1.....Inline label2, no space when same line  
Style 1 Style 2



check style of each label



<a></a>

```
from flask import Flask, render_template

app = Flask(__name__)

# /show/info <-> index() function
# when visit /show/info, index() function .exe
@app.route("/show/info")
def index():
    # flask will find the file named "index.html and return value in this file
    # which direction will flask check?
    # default: in the folder named "templates" in the project folder
    return render_template("index.html")

@app.route('/get/news')
def get_news():
    return render_template("get_news.html")

if __name__ == '__main__':
    app.run()
```

```
<!-- index.html -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>This is the Title</title>
</head>
<body>
  <h1>Info shown</h1>
  <h2>second large</h2>
  <h3>third large</h3>
  <h4>forth large</h4>

  <div>Block-level label, take whole line</div>
  <div>
    <span>Inline label, only take space it need...</span>
    <span>...Inline label, will have space between two span, if span in diff lines</span>
  </div>
  <div>
    <span>Inline label1...</span><span>...Inline label2, no space when same line</span>
  </div>

  <div>
    <!-- if in the same line, why use span instead of div -->
    <!-- may need diff style-->
    <span style="color: coral">Style 1</span> <span>Style 2</span>
  </div>

  <div>
    <a href="https://news.google.com/home?hl=en-US&gl=US&ceid=US:en">google news</a>
    <a href="/get/news">visit our html file</a>
  </div>
</body>
</html>
```

```
<!-- get_news.html -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>news page</title>
</head>
<body>
```

```
<h1 style="color: crimson">This is our news page</h1>
</body>
</html>
```



Info shown

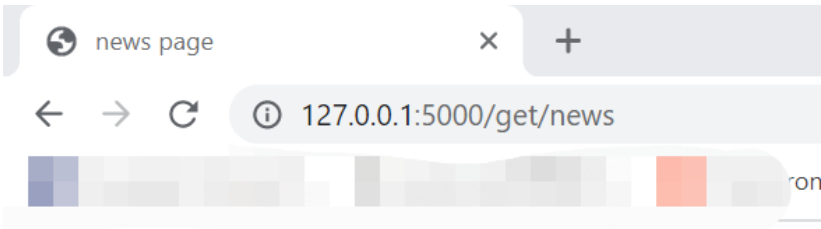
second large

third large

forth large

Block-level label, take whole line  
Inline label, only take space it need... ..Inline label, will have space between two span, if span in diff lines  
Inline label1.....Inline label2, no space when same line

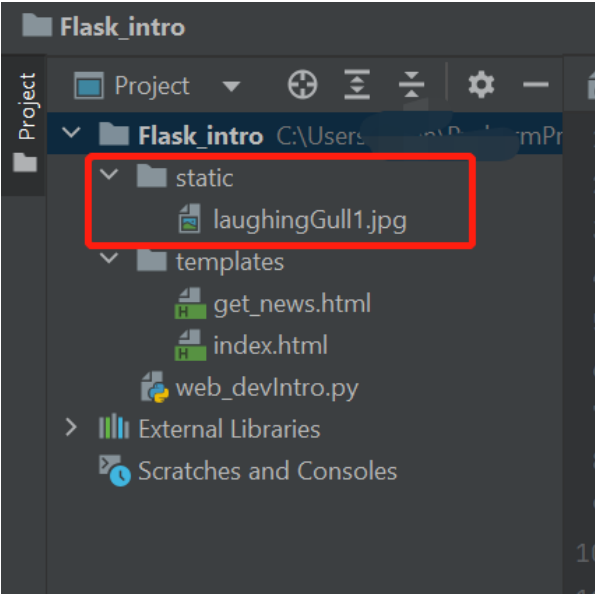
Style 1 Style 2  
[google news](#) [visit our html file](#) jump to our get\_news.html  
jump to google news



This is our news page

<img />

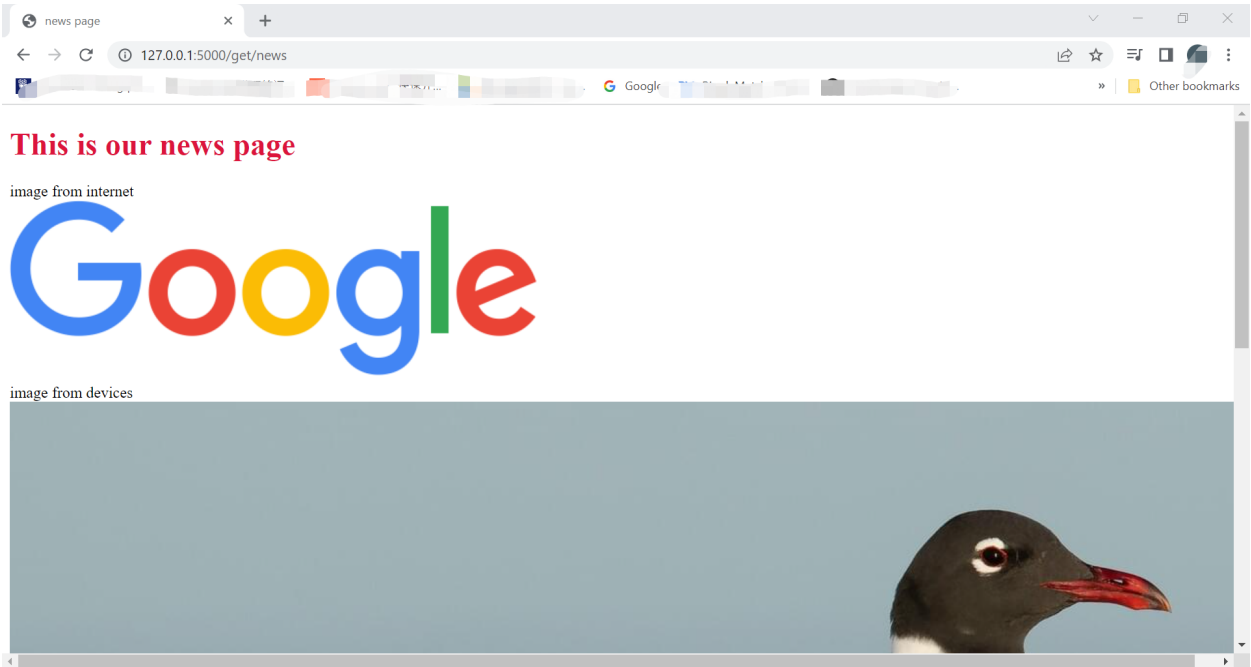
  
remember put image in static folder



```
<!-- get_news.html -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>news page</title>
</head>
<body>
  <h1 style="color: crimson">This is our news page</h1>
  <div>image from internet</div>
  
```

```
<div>image from devices</div>

</body>
</html>
```



```
<!-- get_news.html -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>news page</title>
</head>
<body>
  <h1 style="color: crimson">This is our news page</h1>
  <div>image from internet</div>
  
  <div>image from devices</div>
  
</body>
</html>
```

size change (by pixel)

## This is our news page

image from internet



image from devices



**<a></a> is also a inline label**

if delete <div></div>

```
<!-- get_news.html -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>news page</title>
</head>
<body>
  <h1 style="color: crimson">This is our news page</h1>

  
</body>
</html>
```

This is our news page



(by percentage)

```
<!-- get_news.html -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>news page</title>
</head>
<body>
  <h1 style="color: crimson">This is our news page</h1>
  <div>image from internet</div>
  
  <div>image from devices</div>
  
</body>
</html>
```

This is our news page

image from internet



image from devices



<a><img /></a>

```
from flask import Flask, render_template

app = Flask(__name__)

# /show/info <-> index() function
# when visit /show/info, index() function .exe
@app.route("/show/info")
def index():
    # flask will find the file named "index.html and return value in this file
    # which direction will flask check?
    # default: in the folder named "templates" in the project folder
    return render_template("index.html")

@app.route('/get/news')
def get_news():
    return render_template("get_news.html")

@app.route('/birds/list')
def birds_list():
    return render_template("birds_list.html")

if __name__ == '__main__':
    app.run()
```

```
<!-- birds_list.html -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Birds</title>
</head>
<body>
    <h1>Birds list</h1>
    
    
    

</body>
</html>
```



Birds list



<ul></ul>

```
<!-- index.html -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>This is the Title</title>
</head>
<body>
    <h1>Info shown</h1>
    <h2>second large</h2>
    <h3>third large</h3>
    <h4>forth large</h4>

    <div>Block-level label, take whole line</div>
    <div>
        <span>Inline label, only take space it need...</span>
        <span>...Inline label, will have space between two span, if span in diff lines</span>
    </div>
    <div>
        <span>Inline label1...</span><span>...Inline label2, no space when same line</span>
    </div>
```

```
<div>
  <!-- if in the same line, why use span instead of div -->
  <!-- may need diff style-->
  <span style="color: coral">Style 1</span> <span>Style 2</span>
</div>

<div>
  <a href="https://news.google.com/home?hl=en-US&gl=US&ceid=US:en">google news</a>
  <a href="/get/news">visit our html file</a>
</div>

<div>
  <h2>Birds list</h2>
  <ul>
    <li>Great Blue Heron</li>
    <li>Laughing Gull</li>
    <li>Mixed Tern</li>
  </ul>
</div>

<div>
  <h2>Another birds list</h2>
  <ol>
    <li>Sandwich Tern</li>
    <li>Royal Tern</li>
    <li>Lesser Black-backed Gull</li>
  </ol>
</div>

</body>
</html>
```

# Info shown

## second large

### third large

#### forth large

Block-level label, take whole line  
Inline label, only take space it need... ..Inline label, will have space between two span, if span in diff lines  
Inline label1.....Inline label2, no space when same line  
Style 1 Style 2  
[google news](#) [visit our html file](#)

## Birds list

- Great Blue Heron
- Laughing Gull
- Mixed Tern

## Another birds list

1. Sandwich Tern
2. Royal Tern
3. Lesser Black-backed Gull

<table></table> <thead></thead> <tbody></tbody>

<tr></tr><th></th>

```
<!-- index.html -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>This is the Title</title>
</head>
<body>
  <h1>Info shown</h1>
  <h2>second large</h2>
  <h3>third large</h3>
  <h4>forth large</h4>

  <div>Block-level label, take whole line</div>
  <div>
    <span>Inline label, only take space it need...</span>
```

```

    <span>...Inline label, will have space between two span, if span in diff lines</span>
</div>
<div>
    <span>Inline label1...</span><span>...Inline label2, no space when same line</span>
</div>

<div>
    <!-- if in the same line, why use span instead of div -->
    <!-- may need diff style-->
    <span style="color: coral">Style 1</span> <span>Style 2</span>
</div>

<div>
    <a href="https://news.google.com/home?hl=en-US&gl=US&ceid=US:en">google news</a>
    <a href="/get/news">visit our html file</a>
</div>

<div>
    <h2>Birds list</h2>
    <ul>
        <li>Great Blue Heron</li>
        <li>Laughing Gull</li>
        <li>Mixed Tern</li>
    </ul>
</div>

<div>
    <h2>Another birds list</h2>
    <ol>
        <li>Sandwich Tern</li>
        <li>Royal Tern</li>
        <li>Lesser Black-backed Gull</li>
    </ol>
</div>

<div>
    <table>
        <!-- column name -->
        <thead>
            <tr>
                <th>ID</th> <th>name</th> <th>age</th>
            </tr>
        </thead>
        <!-- table -->
        <tbody>
            <tr>
                <th>1</th> <th>aaa</th> <th>25</th>
            </tr>

            <tr>
                <th>2</th> <th>bbb</th> <th>26</th>
            </tr>

            <tr>
                <th>3</th> <th>ccc</th> <th>30</th>
            </tr>
        </tbody>
    </table>
</div>

</body>
</html>
```



## second large

### third large

#### forth large

Block-level label, take whole line  
Inline label, only take space it need... ..Inline label, will have space between two span, if span in diff lines  
Inline label1.....Inline label2, no space when same line  
Style 1 Style 2  
[google news](#) [visit our html file](#)

## Birds list

- Great Blue Heron
- Laughing Gull
- Mixed Tern

## Another birds list

1. Sandwich Tern
2. Royal Tern
3. Lesser Black-backed Gull

#### ID name age

1   aaa   25  
2   bbb   26  
3   ccc   30

#### add border

```
<div>
  <table border="1">
    <!-- column name -->
    <thead>
      <tr>
        <th>ID</th> <th>name</th> <th>age</th>
      </tr>
    </thead>
    <!-- table -->
    <tbody>
      <tr>
        <th>1</th> <th>aaa</th> <th>25</th>
      </tr>

      <tr>
        <th>2</th> <th>bbb</th> <th>26</th>
      </tr>

      <tr>
        <th>3</th> <th>ccc</th> <th>30</th>
      </tr>
    </tbody>
  </table>
</div>
```

ID	name	age
1	aaa	25
2	bbb	26
3	ccc	30

```
from flask import Flask, render_template

app = Flask(__name__)

# /show/info <-> index() function
# when visit /show/info, index() function .exe
@app.route("/show/info")
def index():
    # flask will find the file named "index.html and return value in this file
    # which direction will flask check?
    # default: in the folder named "templates" in the project folder
    return render_template("index.html")
```

```
@app.route('/get/news')
def get_news():
    return render_template("get_news.html")

@app.route('/birds/list')
def birds_list():
    return render_template("birds_list.html")

@app.route('/birds/table')
def birds_table():
    return render_template("birds_table.html")

if __name__ == '__main__':
    app.run()
```

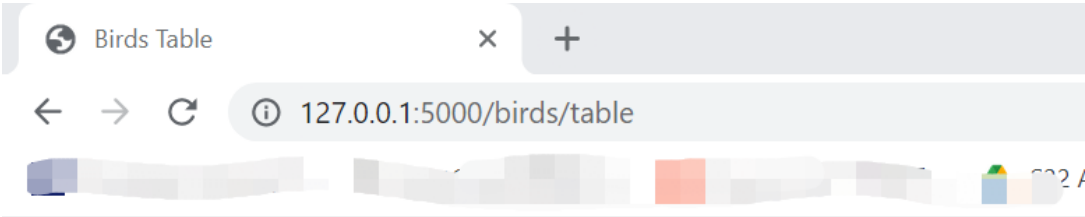
```
<!-- birds_table.html -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Birds Table</title>
</head>
<body>
    <h1>Birds </h1>
    <table border="1">
        <thead>
            <tr>
                <td>ID</td>
                <td>Photo</td>
                <td>Name</td>
                <td>More Info</td>
            </tr>
        </thead>

        <tbody>
            <tr>
                <td>1</td>
                <td></td>
                <td>Great Blue Heron</td>
                <td><a href="https://www.allaboutbirds.org/guide/Great_Blue_Heron/overview" target="_blank">more information</a></td>
            </tr>




            <tr>
                <td>1</td>
                <td></td>
                <td>Laughing Gull</td>
                <td><a href="https://www.allaboutbirds.org/guide/Laughing_Gull/overview" target="_blank">more information</a></td>
            </tr>

            <tr>
                <td>1</td>
                <td></td>
                <td>Mixed Tern</td>
                <td><a href="https://www.allaboutbirds.org/guide/Mixed Tern/overview" target="_blank">more information</a></td>
            </tr>
        </tbody>
    </table>

</body>
</html>
```



# Birds

ID	Photo	Name	More Info
1		Great Blue Heron	<a href="#">more information</a>
1		Laughing Gull	<a href="#">more information</a>
1		Mixed Tern	<a href="#">more information</a>

## input label

```
<!-- index.html -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>This is the Title</title>
</head>
<body>
  <h1>Info shown</h1>
  <h2>second large</h2>
  <h3>third large</h3>
  <h4>forth large</h4>

  <div>Block-level label, take whole line</div>
  <div>
    <span>Inline label, only take space it need...</span>
    <span>...Inline label, will have space between two span, if span in diff lines</span>
  </div>
  <div>
    <span>Inline label1...</span><span>...Inline label2, no space when same line</span>
  </div>

  <div>
    <!-- if in the same line, why use span instead of div -->
    <!-- may need diff style-->
    <span style="color: coral">Style 1</span> <span>Style 2</span>
  </div>

  <div>
    <a href="https://news.google.com/home?hl=en-US&gl=US&ceid=US:en">google news</a>
    <a href="/get/news">visit our html file</a>
  </div>

  <div>
    <h2>Birds list</h2>
    <ul>
      <li>Great Blue Heron</li>
      <li>Laughing Gull</li>
      <li>Mixed Tern</li>
    </ul>
  </div>

  <div>
    <h2>Another birds list</h2>
    <ol>
      <li>Sandwich Tern</li>
      <li>Royal Tern</li>
      <li>Lesser Black-backed Gull</li>
    </ol>
  </div>

  <div>
    <table border="1">
```

```
<!-- column name -->
<thead>
  <tr>
    <th>ID</th>
    <th>name</th>
    <th>age</th>
  </tr>
</thead>
<!-- table -->
<tbody>
  <tr>
    <th>1</th>
    <th>aaa</th>
    <th>25</th>
  </tr>

  <tr>
    <th>2</th>
    <th>bbb</th>
    <th>26</th>
  </tr>

  <tr>
    <th>3</th>
    <th>ccc</th>
    <th>30</th>
  </tr>
</tbody>
</table>
</div>

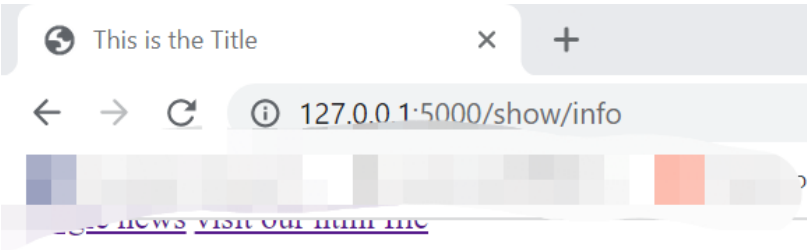
<div>
  <h1>input</h1>
  <div> text
    <input type="text" />
  </div>
  <div> password
    <input type="password"/>
  </div>
  <div> upload file
    <input type="file"/>
  </div>

  <div> single selection
    <input type="radio" name="n1"/> A
    <input type="radio" name="n1"/> B
  </div>

  <div> multiple selection
    <input type="checkbox"/> A1
    <input type="checkbox"/> A2
    <input type="checkbox"/> A3
    <input type="checkbox"/> B2
    <input type="checkbox"/> B5
  </div>

  <div> button
    <input type="button" value="button">
    <input type="submit" value="submit">
  </div>
</div>

</body>
</html>
```



## Birds list

- Great Blue Heron
- Laughing Gull
- Mixed Tern

## Another birds list

1. Sandwich Tern
2. Royal Tern
3. Lesser Black-backed Gull

ID	name	age
1	aaa	25
2	bbb	26
3	ccc	30

## input

text

password

upload file  laughingGull2.jpg

single selection ☒ A ☐ B

multiple selection ☐ A1 ☒ A2 ☒ A3 ☒ B2 ☐ B5

button

### <select></select>

```
<div>
  <h1>select</h1>
  <select>
    <option>A</option>
    <option>B</option>
    <option>C</option>
    <option>D</option>
  </select>
</div>

<div>
  <h1>select</h1>
  <select multiple>
    <option>A</option>
    <option>B</option>
    <option>C</option>
    <option>D</option>
  </select>
</div>
```

# select

A ▾

# select

A ▴  
B  
C  
D ▾

**<textarea></textarea>**

```
<div>
  <h1>multiple lines text</h1>
  <textarea></textarea>
  <textarea rows="5"></textarea>
</div>
```

# multiple lines text

```
from flask import Flask, render_template

app = Flask(__name__)

# /show/info <-> index() function
# when visit /show/info, index() function .exe
@app.route("/show/info")
def index():
    # flask will find the file named "index.html and return value in this file
    # which direction will flask check?
    # default: in the folder named "templates" in the project folder
    return render_template("index.html")

@app.route('/get/news')
def get_news():
    return render_template("get_news.html")

@app.route('/birds/list')
def birds_list():
    return render_template("birds_list.html")

@app.route('/birds/table')
def birds_table():
    return render_template("birds_table.html")

@app.route('/register')
def register():
    return render_template("register.html")

if __name__ == '__main__':
    app.run()
```

```
<!-- register.html -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>User Register</title>
</head>
<body>
  <h1>User Register</h1>
  <div> User name
    <input type="text" />
  </div>
```

```
<div> password
  <input type="password" />
</div>

<div> gender
  <input type="radio" name="n1"/> male
  <input type="radio" name="n1"/> female
</div>

<div> hobby
  <input type="checkbox"> basketball
  <input type="checkbox"> skiing
  <input type="checkbox"> volleyball
</div>

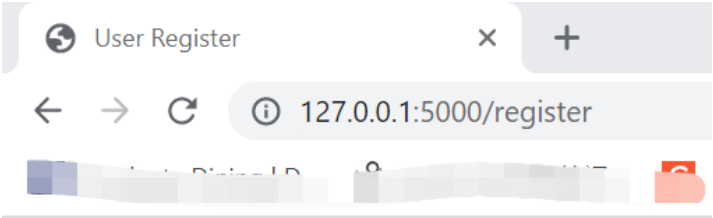
<div> city
  <select>
    <option>Houston</option>
    <option>Austin</option>
    <option>Dallas</option>
  </select>
</div>

<div> interest
  <select multiple>
    <option>movie</option>
    <option>reading</option>
    <option>sports</option>
  </select>
</div>

<div> other
  <textarea></textarea>
</div>

<div>
  <input type="submit" value="register"/>
</div>

</body>
</html>
```



# User Register

User name

password

gender ☐ male ☐ female

hobby ☐ basketball ☐ skiing ☐ volleyball

city 

Houston

interest 

movie

reading

sports

other

register