Pemrograman Web

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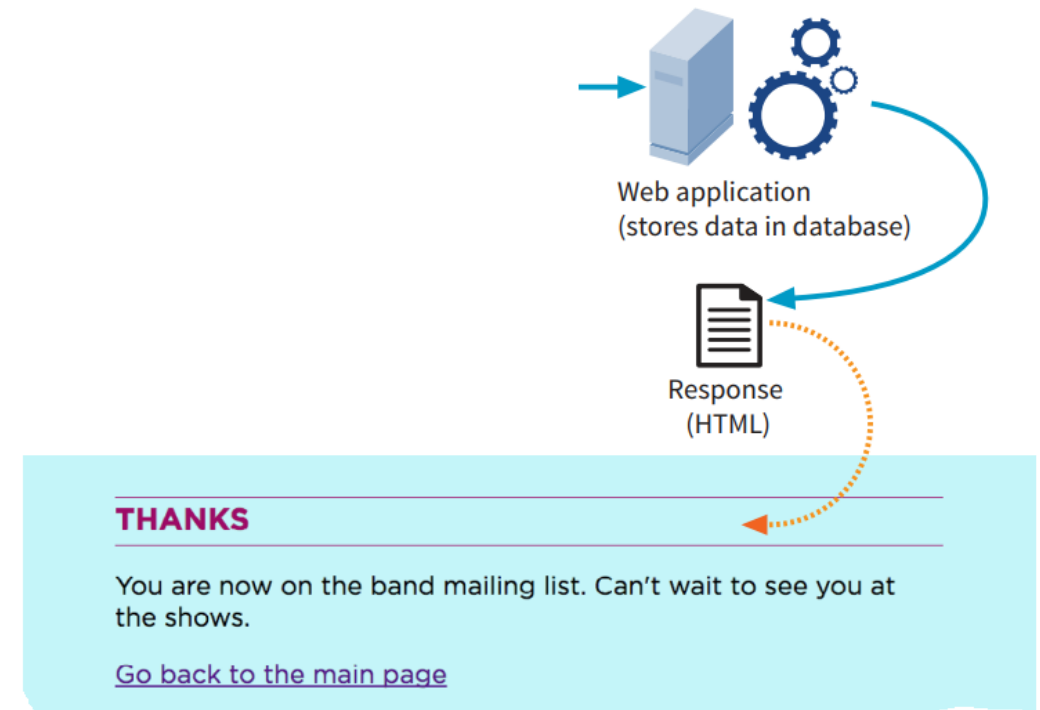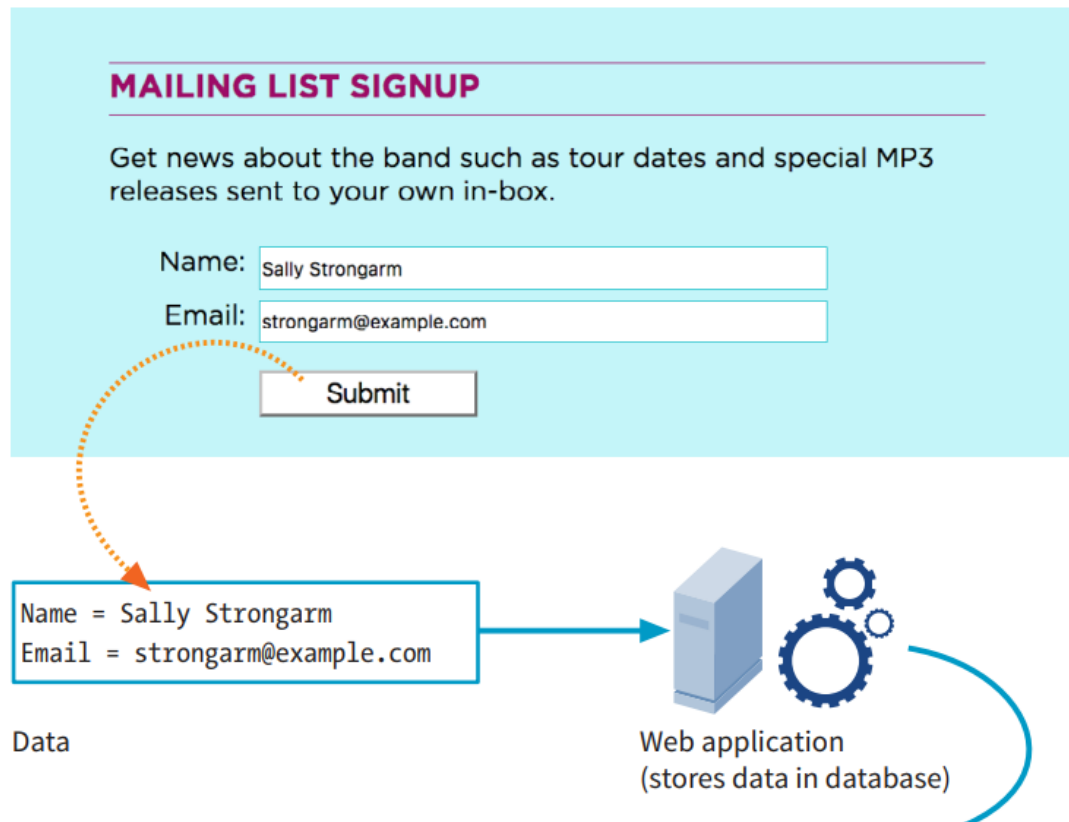dev.xbata.com

@rojulman

4. HTML: FORM

Form

- Form digunakan untuk mengumpulkan data/informasi dari pengguna
- Data akan di proses di Server dengan Aplikasi Web.

Form

```
<form>...</form>
```

Interactive form

```html
<body>
  <h1>Mailing List Signup</h1>

  <form action="/mailinglist.php" method="POST">
    <fieldset>
      <legend>Join our email list</legend>
      <p>Get news about the band such as tour dates and special MP3
releases sent to your own in-box.</p>
      <ol>
       <li><label for="firstlast">Name:</label>
         <input type="text" name="fullname" id="firstlast"></li>
       <li><label for="email">Email:</label>
         <input type="text" name="email" id="email"></li>
      </ol>
      <input type="submit" value="Submit">
    </fieldset>
  </form>

</body>
```

MAILING LIST SIGNUP

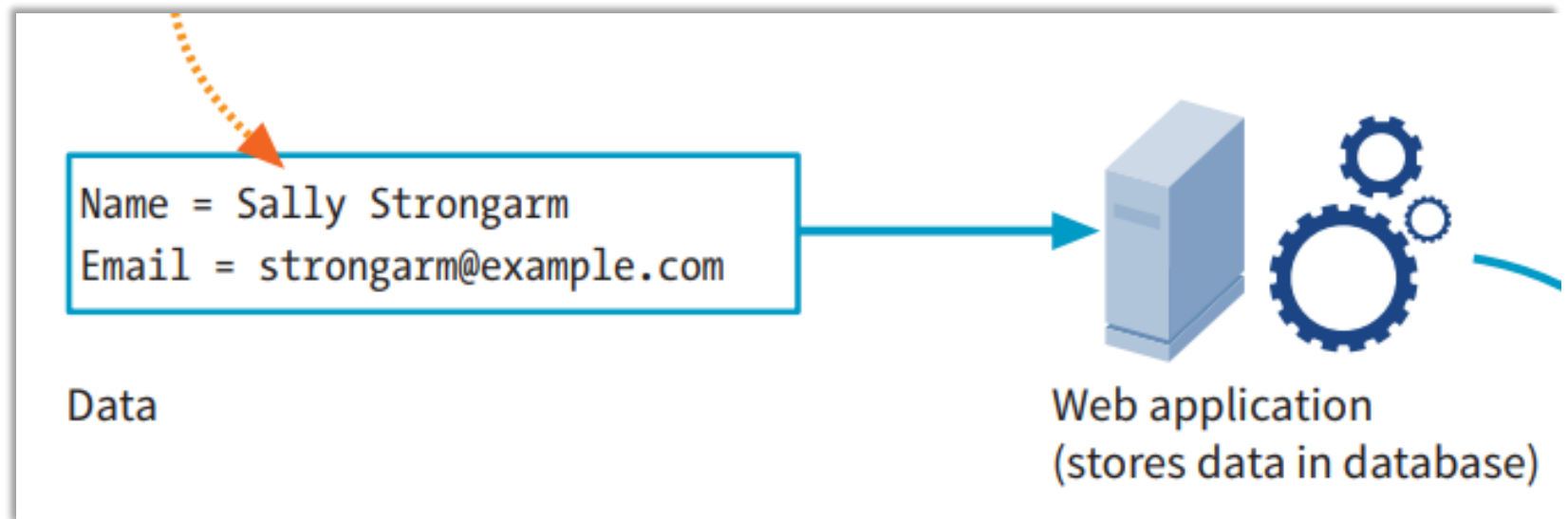Get news about the band such as tour dates and special MP3 releases sent to your own in-box.

Name: Sally Strongarm

Email: strongarm@example.com

Submit

Form: Action Attribute

```
<form action="/mailinglist.php" method="POST">...</form>
```

- Data yang dikirim oleh form akan di proses pada program di sisi server:
  - PHP
  - ASP
  - JSP
  - Python
  - Ruby
  - C# .NET

Name = Sally Strongarm
Email = strongarm@example.com

Data

Web application
(stores data in database)

Anatomi Form

```
<form action = "Script URL" method = "GET|POST">
    form elements like input, textarea etc.
</form>
```

Atribute	Deskripsi
action	Skrip backend yang akan memproses isian Form
method	Method yang digunakan untuk kirim data, POST/GET
target	Tentukan spesifik target yang diinginkan, isian: _blank, _self, _parent
enctype	Tipe enkripsi data yang dikirim, biasanya untuk kirim atau upload file - **mutlipart/form-data : untuk upload file binary gambar, dokumen file lain**

Form: Control dan Elemen

Form Controls	Function
`<input>`	Defines a form control for user input.
`<button>...</button>`	Defines a button.
`<textarea>...</textarea>`	Defines a form control for multi-line user text input.
`<select>...</select>`	Used to create a drop-down list.
`<datalist>...</datalist>`	Used to create a drop-down list that suggests possible values from a range of values, based on what the user types in.
`<option>...</option>`	Defines an option in a select or datalist list.

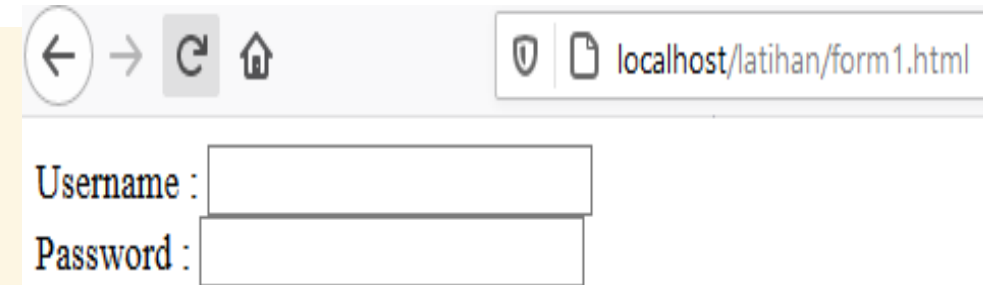| Elements Used with Controls	Function
`<label>...</label>`	Used to associate a label with a control.
`<output>...<output>`	Used to display the result of a calculation or user action.
`<progress>...<progress>`	Used to display the completion progress of a task.
`<meter>...<meter>`	Used to display a level within a range.
`<optgroup>...</optgroup>`	Used to group options on a drop-down list.
`<fieldset>...</fieldset>`	Used to group controls. Also, it encloses them in a border.
`<legend>...</legend>`	Used to display a caption for the content of its parent `<fieldset>` element.
`<keygen>`	Although this element was introduced in HTML5, it has been deprecated and will no longer be supported by browsers, so its use is discouraged.

HTML Text Input

Atribute	Deskripsi
type	Tipe kontrol input: text, password,email,url, tel, search, hidden
name	Nama kontrol yang akan dikirim ke sisi server
value	Nilai control yang akan dikirim ke sisi server
Size	Lebar kontrol (dalam satuan karakter)
Maxlenght	Maksimum jumlah karakter yang boleh di input

```html
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <title>Form Login</title>
5  </head>
6  <body>
7  <form method="POST" action="login.php">
8    Username : <input type="text" name="username"/>
9    <br/>
10   Password : <input type="password" name="password"/>
11 </form>
12 </body>
13 </html>
```

localhost/latihan/form1.html

Username :

Password :

HTML5 Input Type

- Inputan user diarahkan sesuai dengan kebutuhan aplikasi

- Meminimalkan kesalahan input

- Gunakan tag <label> untuk arahan informasi inputan yang berkesesuaian

<label>...</label>

Attaches information to form controls

New HTML5 Form input Types

3.2.1	input Type color
3.2.2	input Type date
3.2.3	input Type datetime
3.2.4	input Type datetime-local
3.2.5	input Type email
3.2.6	input Type month
3.2.7	input Type number
3.2.8	input Type range
3.2.9	input Type search
3.2.10	input Type tel
3.2.11	input Type time
3.2.12	input Type url
3.2.13	input Type week
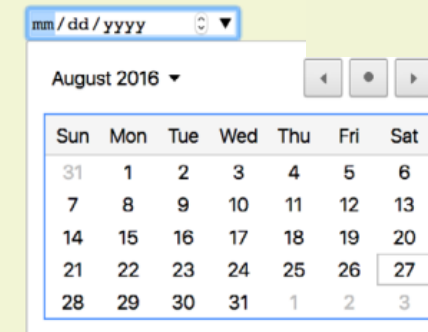
HTML5 Input Type : Color & Date Time
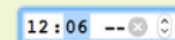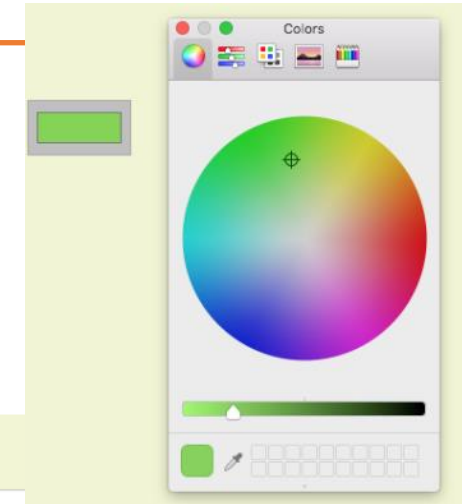
```
7         <h1>HTML5 New Input Form</h1>
8         <form method="POST" action="http://dev.xbata.com">
9             <p>
10               <label> Color :
11                   <input type="color" autofocus/>(hexadecimal)
12               </label>
13           </p>
14           <p>
15               <label>Tanggal :
16                   <input type="date"/>(mm-dd-yyyy)
17               </label>
18           </p>
19           <p>
20               <label>Jam Tanggal
21                   <input type="datetime-local"/>(mm-dd-yyyy, hh:mm)
22               </label>
23           </p>
24       </form>
```

input type="date"

input type="time"

HTML5 Input Type : Number & Password

```
<label>Number of guests <input type="number" name="guests" min="1"
max="6"></label>
```

Number of guests: [   ]

```
<label>Satisfaction (0 to 10) <input type="range" name="satisfaction"
min="0" max="10" step="1"></label>
```

Satisfaction (from 0 to 10): [————————◯————————]

```
<li><label for="form-pswd">Password:</label><br>
 <input type="password" name="pswd" maxlength="12" id="form-pswd"></li>
```

Password: ●●●●●●●●●●

HTML5 Input Type : File

- Digunakan untuk upload/kirim file ke server
- Ditambahkan atribut enctype pada Form

```
<form action="/client.php" method="POST" enctype="multipart/form-data">
  <label>Send a photo to be used as your online icon <em>(optional)
</em><br>
  <input type="file" name="photo"></label>
</form>
```

Send a photo to be used as your online icon *(optional)*:
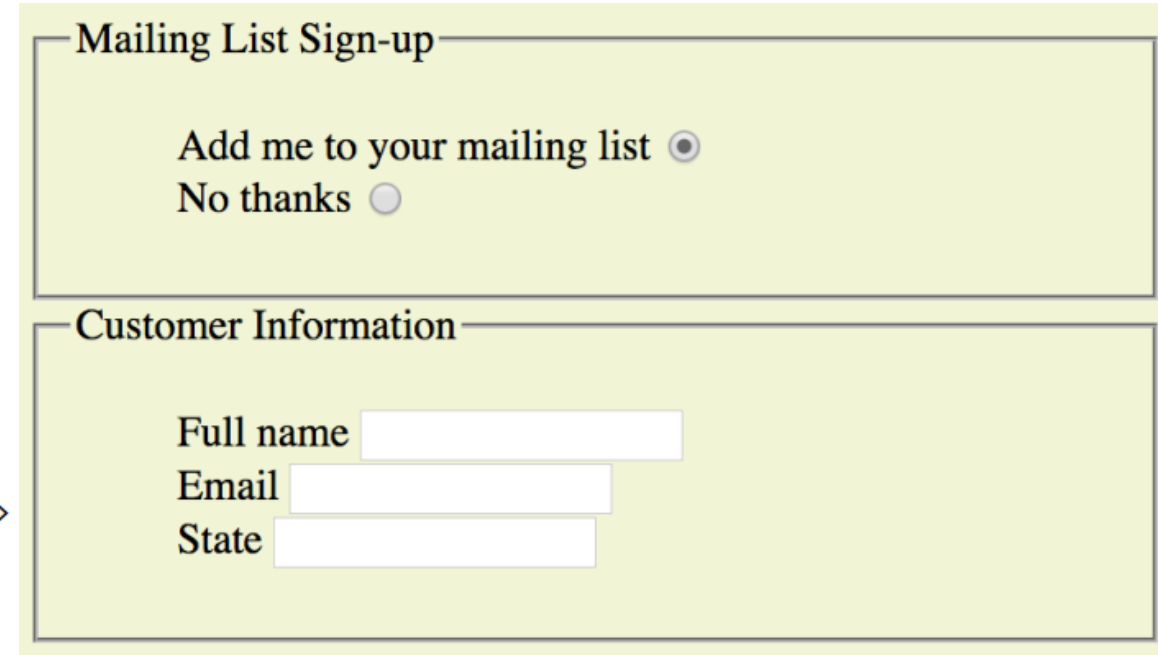
Choose File | No file chosen

Fieldset dan Legend

- Fieldset: mengelompokan logical control dari control2 pada form
- Legend: berisi informasi dari kelompok control

```html
<fieldset>
  <legend>Mailing List Sign-up</legend>
  <ul>
    <li><label>Add me to your mailing list <input type="radio"
    name="list" value="yes" checked></label></li>
    <li><label>No thanks <input type="radio" name="list" value="no">
</label></li>
  </ul>
</fieldset>

<fieldset>
  <legend>Customer Information</legend>
  <ul>
    <li><label>Full name: <input type="text" name="fullname"></label>
</li>
    <li><label>Email: <input type="text" name="email"></label></li>
    <li><label>State: <input type="text" name="state"></label></li>
  </ul>
</fieldset>
```

Dropdown Menu : SELECT

- Elemen form berisi daftar list pilihan bentuk dropdown menu list

```html
<p>What is your favorite 80s band?
<select name="EightiesFave">
    <option>The Cure</option>
    <option>Cocteau Twins</option>
    <option>Tears for Fears</option>
    <option>Thompson Twins</option>
    <option value="EBTG">Everything But the Girl</option>
    <option>Depeche Mode</option>
    <option>The Smiths</option>
    <option>New Order</option>
</select>
</p>
```

What is your favorite 80s band? The Cure

- Scrolling menu, memungkinkan user memilih lebih dari satu item
- Tambahkan attribute size dan multiple

```
<p>What 80s bands did you listen to?
<select name="EightiesBands" size="6" multiple>
    <option>The Cure</option>
    <option>Cocteau Twins</option>
    <option selected>Tears for Fears</option>
    <option selected>Thompson Twins</option>
    <option value="EBTG">Everything But the Girl</option>
    <option>Depeche Mode</option>
    <option>The Smiths</option>
    <option>New Order</option>
</select>
</p>
```

What 80s bands did you listen to?

The Cure
Cocteau Twins
Tears for Fears
Thompson Twins
Everything But the Girl
Depeche Mode

Dropdown Menu : SELECT

- Grouping menu, memungkinkan mengelompokan pilihan item
- Gunakan tag optgroup dengan atribut label

```
<select name="icecream" size="7" multiple>
  <optgroup label="traditional">
    <option>vanilla</option>
    <option>chocolate</option>
  </optgroup>
  <optgroup label="fancy">
    <option>Super praline</option>
    <option>Nut surprise</option>
    <option>Candy corn</option>
  </optgroup>
</select>
```

traditional
vanilla
chocolate
fancy
Super praline
Nut surprise
Candy corn

Radio Button

- Elemen inputan berupa pilihan yang wajib dipilih dari beberapa alternatif yang ditawarkan

```
<p>How old are you?</p>
<ol>
  <li><input type="radio" name="age" value="under24" checked> under 24</li>
  <li><input type="radio" name="age" value="25-34"> 25 to 34</li>
  <li><input type="radio" name="age" value="35-44"> 35 to 44</li>
  <li><input type="radio" name="age" value="over45"> 45+</li>
</ol>
```

How old are you?

- ⦿ under 24
- ○ 25 to 34
- ○ 35 to 44
- ○ 45+

Checkbox

- Elemen inputan berupa pilihan yang optional (boleh di pilih atau tidak dipilih) dari beberapa alternatif yang ditawarkan

```html
<h1>Kendaraan Yang Anda Miliki:</h1>
<form action="/action_page.php">
  <input type="checkbox" id="vehicle1" name="vehicle1" value="Bike">
  <label for="vehicle1"> I have a bike</label><br>
  <input type="checkbox" id="vehicle2" name="vehicle2" value="Car">
  <label for="vehicle2"> I have a car</label><br>
  <input type="checkbox" id="vehicle3" name="vehicle3" value="Boat">
  <label for="vehicle3"> I have a boat</label><br><br>
  <input type="submit" value="Submit">
</form>
```

Kendaraan Yang Anda Miliki:

☑ I have a bike
☑ I have a car
☐ I have a boat

Submit

Input Type – Dropdown Suggestion

`<datalist>…</datalist>`
Drop-down menu input

- Datalist menyediakan pilihan untuk dipilih satu oleh user (mirip seperti SELECT Menu)

- Gunakan atribut list dan name untuk id list yang dirujuk

```
<p>Education completed: <input type="text" list="edulevel"
name="education">

<datalist id="edulevel">
  <option value="High School">
  <option value="Bachelors Degree">
  <option value="Masters Degree">
  <option value="PhD">
</datalist>
```

Education completed: [▼]
High School
Bachelors Degree
Masters Degree
PhD

Button - Tombol
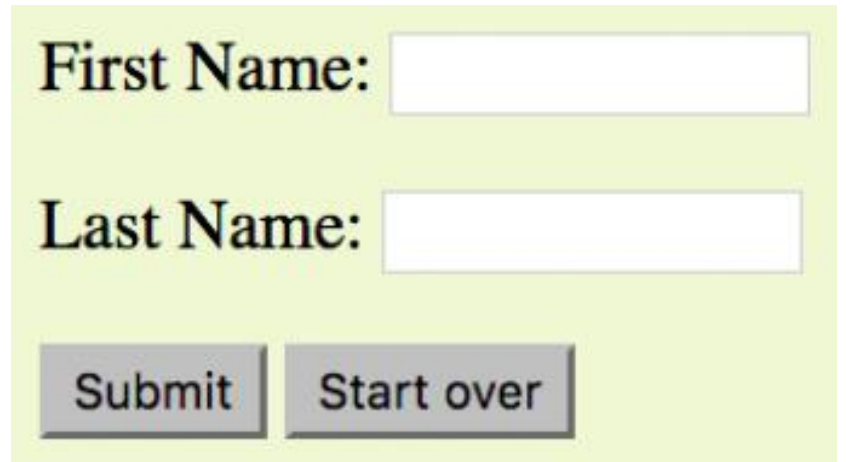
- Terdapat dua pilihan tipe button
  - Submit : Jika ditekan data form dikirim
  - Reset : Jika ditekan data form akan di kosongkan kembali

```
<input type="submit">
```
Submits the form data to the server

```
<input type="reset">
```
Resets the form controls to their default settings

First Name: [   ]

Last Name: [   ]

Submit   Start over

```
<p><input type="submit"> <input type="reset" value="Start over"></p>
```
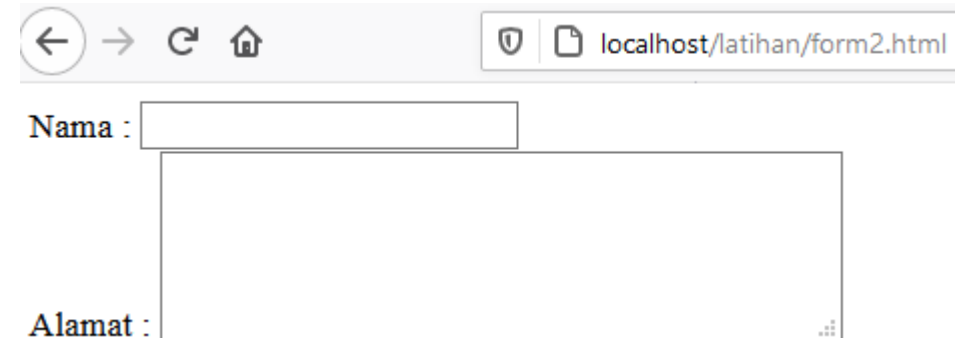
HTML Multi Text Input : TextArea

Atribute	Deskripsi
name	Nama kontrol yang akan dikirim ke sisi server
cols	Jumlah kolom dari area text box
rows	Jumlah baris dari area text box

```html
<form method="POST" action="biodata.php">
  Nama : <input type="text" name="username"/>
  <br/>
  Alamat : <textarea name="alamat" cols="40" rows="3"></textarea>
  <br/>
</form>
```

Tugas Praktikum 3.1

Buat form seperti Gambar 1
Dan halaman hasil inputan seperti Gambar 2
Check Kode Program anda dengan validator, pastikan tidak ada error !!

Gambar 1

Gambar 2

Tugas Praktikum 3.2

Buat form Pesanan Barang, seperti Gambar, Gunakan Tag HTML dan CSS Inline Style

Tugas Praktikum 3.2

Buat form Pesanan Barang, seperti Gambar, Gunakan Tag HTML dan CSS Inline Style

HTML5 Validator : validator.w3.org

Website yang menyediakan validasi kode program HTML5

HTML5 Validator : validator.w3.org

Check kode program anda ! (copas kode HTML5 ke tab validate by direct input), dan tekan tombol check

Contoh: ADA ERROR !
Dokumen Tidak Ada Title