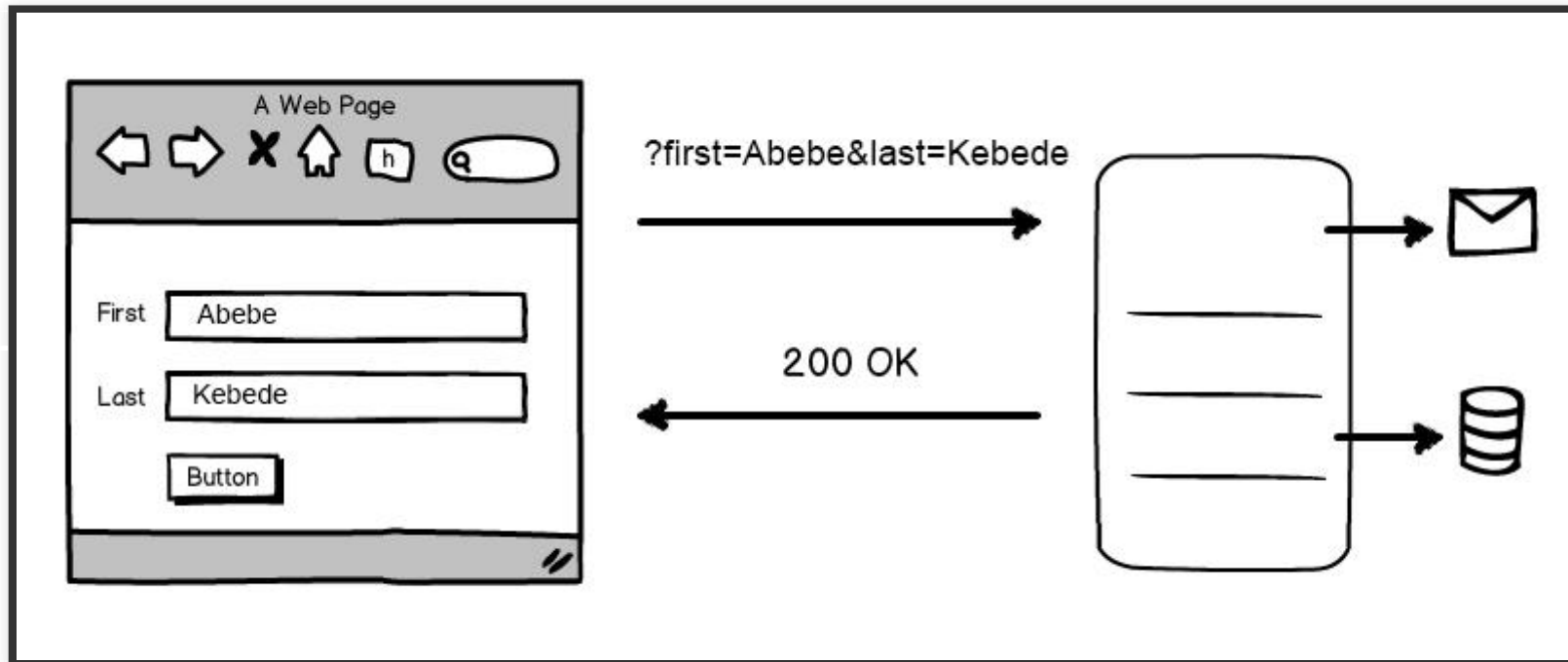


Forms: Browser-to-Server Communication



The Form HTML

```
<form action="http://example.com/processform.php"
  method="get">
  <input type="text" name="first">
  <input type="text" name="last">
  <button type="submit">Send Data</button>
</form>
```




The Form HTTP Request: GET

Request:

```
GET /processform.php?first=Abebe&last=Kebede HTTP/1.1  
Host: example.com
```

Response:

```
200  
<doctype html>  
<html>  
  <head>  
    <title>Welcome to my website!</title>  
    ...  
</html>
```





Form element

```
<form action="http://example.com/processform.php"  
  <b>method="get"></b>  
</form>
```

```
<form action="http://example.com/processform.php"  
  <b>method="post"></b>  
</form>
```



The Form HTTP Request: POST

Request:

```
POST /processform.php HTTP/1.1
Host: example.com
first=Abebe&last=Kebede
```

Response:

```
200
<doctype html>
<html>
  <head>
    <title>Welcome to my website, Abebe!</title>
    ...
  </html>
```



Input element

```
<input type="text" name="animal">
```

```
<input type="text" name="animal" value="Red Fox">
```



Button element

```
<button type="submit">Submit order</button>
```

Submit order

```
<button type="reset">Start over</button>
```

Red Fox

Start over

```
<button type="button">Customize</button>
```

Customize



Label element

```
<label> Animal:  
<input type="text" name="animal">  
</label>
```

Or

```
<label for="animal"> Animal: </label>  
<input type="text" name="animal" id="animal">
```

Animal



Checkboxes

Yes/No questions:

```
<label> Do you agree?  
<input type="checkbox" name="agreement"/>  
</label>
```

Do you agree? ☐

Multiple options:

```
Options:  
<input type="checkbox" name="opt1" id="opt1">  
<label for="opt1">Option 1</label>  
<input type="checkbox" name="opt2" id="opt2">  
<label for="opt2">Option 2</label>
```

Options: ☐ Option 1 ☐ Option 2





Radio buttons

Multiple choice:

```
<fieldset>
  <legend>Pizza Size:</legend>
  <label for="small">Small</label>
  <input type="radio" name="size" id="small" value="small">
  <label for="medium">Medium</label>
  <input type="radio" name="size" id="medium" value="medium">
  <label for="large">Large</label>
  <input type="radio" name="size" id="large" value="large">
</fieldset>
```

Pizza Size:
Small • Medium • Large •



The select element

```
<label for="os">Your OS?:</label>
<select name="os" id="os">
  <option value="win">Windows</option>
  <option value="mac">Macintosh OSX</option>
  <option value="linux">Linux</option>
</select>
```

Your OS?:



Textarea element

```
<label>Delivery instructions: <br>  
<textarea name="delivery"></textarea>  
</label>
```

Delivery instructions:

```
<label>Write your delivery instructions: <br>  
<textarea name="delivery" rows="3" cols="40"></textarea>  
</label>
```

Write your delivery instructions:



Forms in HTML5

```
<input type="email"
placeholder="name@email.com">
```

A rectangular text input field with a light gray border and a light gray background. The text "name@email.com" is displayed inside the field in a light gray font, serving as a placeholder.

```
<input type="range" min="0" max="50"
value="10">
```



```
<input type="color">
```

