## Validating User Input with JavaScript

JavaScript can be used to validate the data before submitted to the Web server in correct format such as number, email, postcode, and date.

However, JavaScript validation should be considered an assistance more to your users than to your websites because hackers can quite easily simulate your web forms and submit any data of their choosing.

Another reason you cannot rely on JavaScript to perform all your input validation is that some users disable JavaScript, or use browsers that don't support it.

The following example create a general sign-up form, common on most sites that offer memberships or registered users. The inputs requested will be forename, surname, username, password, age, and email address.

Example:

```
<!DOCTYPE html>
<html>
<head>
<title>An Example Form</title>
<script>
function validate(form)
  fail = validateForename(form.forename.value)
  fail += validateSurname(form.surname.value)
  fail += validateUsername(form.username.value)
  fail += validatePassword(form.password.value)
  fail += validateAge(form.age.value)
  fail += validateEmail(form.email.value)
  if (fail == "")
      return true
  else { alert(fail); return false }
}
function validateForename(field) {
  return (field == "") ? "No Forename was entered.\n" :
function validateSurname(field) {
  return (field == "") ? "No Surname was entered.\n" :
```

```
function validateUsername(field) {
  if (field == "")
                                                       function validateEmail(field) {
     return "No Username was entered.\n"
                                                          if (field == "")
  else if (field.length < 5)</pre>
                                                             return "No Email was entered.\n"
     return "Usernames must be at least 5
                                                          else if (!((field.indexOf(".") > 0) &&
characters.\n"
                                                       (field.indexOf("@") > 0)) | |
                                                          /[^a-zA-Z0-9.@ -]/.test(field))
  else if (/[^a-zA-Z0-9 -]/.test(field))
                                                             return "The Email address is invalid.\n"
     return "Only a-z, A-Z, 0-9, - and allowed in
Usernames.\n"
                                                          return ""
  return ""
                                                       }
}
                                                       </script>
function validatePassword(field) {
                                                       </head>
  if (field == "")
                                                       <body>
     return "No Password was entered.\n"
                                                       <form method="post" action="adduser.php"</pre>
  else if (field.length < 8)</pre>
                                                       onsubmit="return validate(this)">
     return "Passwords must be at least 6
characters.\n"
                                                       bgcolor="#eeeee">
  else if (!/[a-z]/.test(field) || ! /[A-
Z]/.test(field) ||!/[0-9]/.test(field))
                                                          <th_colspan="2" align="center">Signup Form
     return "Passwords require one each of a-z, A-Z and
                                                                Forename
                                                             <input type="text" maxlength="32"
0-9.\n"
  return ""
                                                       name="forename" >
}
                                                             Surname</rr>
                                                             <input type="text" maxlength="32"
                                                       name="surname">
function validateAge(field) {
  if (isNaN(field))
                                                             Username</rr>
     return "No Age was entered.\n"
                                                             <input type="text" maxlength="16"
  else if (field < 18 || field > 110)
                                                       name="username">
     return "Age must be between 18 and 110.\n"
                                                             Password
  return ""
                                                             <input type="text" maxlength="12"
                                                       name="password">
```

## **JAVASCRIPT**

Between the <script> and </script> tags lies a single function called **validate**(form) that itself calls up six other functions to validate each of the form's input fields.

The function return either an empty string if a field validates, or an error message if it fails. If there are any errors, the final line of the script pops up an alert box to display them.

If it returns false, the form is prevented from being submitted.

It produces the following page when user click the Signup button.

