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| --- | --- | --- |
| Form on page: form.html | | |
| Field ID | Data Format or RegExp | Explanations |
| Username  (sign up) | /^[\w]{1,15}$/ | It accepts username which contains 1-15 letters and only used English characters (case insensitive), numeric digits and”\_”(underscore). |
| Email | /^\w+([\.-]?\w+)\*@\w+([\.-]?\w+)\*(\.\w{2,3})+$/ | It accepts e-mail address which matches general form of e-mail address.  \w+([\.-]?\w+)\* defines the expression form of the username in the email, before the @ sign. It starts with at least one word character (a-z, A-Z, 0-9 and \_), followed by more word characters or “.” or “-“.  Due to that, “.“ or “- “must follow by a word character (a-z,A-Z,0-9 and \_).  Therefore, the string cannot contain "..", "--", ".-" or "-.".  "@" sign matches itself.  After @ sign, \w+([\.-]?\w+)\* defines the expression form of the domain name, and it is the same pattern as the username mentioned above.  \.\w{2,3} defines “.” followed by two or three word characters.  Eg: ".com", ".co".  (\.\w{2,3})+ specifies that the above expression could occur one or more times.  Eg: ".com", ".co.ca", etc. |
| Password  (sign up) | /^[\w]{6,10}$/ | It accepts password which contains 6-10 letters only used English characters (case insensitive), numeric digits and ”\_”(underscore). |
| S-Submit Button |  | It will check all input values from a user are valid or invalid. If there is any error, a user can not submit data to server. |
| Username  (Log in) | /^[\w]{1,15}$/ | It accepts username which contains 1-15 letters and only used English characters (case insensitive), numeric digits and”\_”(underscore). |
| Password  (log in) | /^[\w]{6,10}$/ | It accepts 6-10 letters and only English characters (case insensitive), numeric digits and” \_”(underscore). |
| L-Submit Button |  | It will check all input values from a user are valid or invalid. If there is any error, a user can not submit data to server. |
| Form on page: contact.html | | |
| Field ID | Data Format or RegExp | Explanations |
| First name and last name  (sign up) | /^[\w]{1,15}$/ | It accepts the clients first and last which contains 1-10 letters and only used English characters (case insensitive), numeric digits and”\_”(underscore). |
| Email | /^\w+([\.-]?\w+)\*@\w+([\.-]?\w+)\*(\.\w{2,3})+$/ | It accepts e-mail address which matches general form of e-mail address.  \w+([\.-]?\w+)\* defines the expression form of the username in the email, before the @ sign. It starts with at least one word character (a-z, A-Z, 0-9 and \_), followed by more word characters or “.” or “-“.  Due to that, “.“ or “- “must follow by a word character (a-z,A-Z,0-9 and \_).  Therefore, the string cannot contain "..", "--", ".-" or "-.".  "@" sign matches itself.  After @ sign, \w+([\.-]?\w+)\* defines the expression form of the domain name, and it is the same pattern as the username mentioned above.  \.\w{2,3} defines “.” followed by two or three word characters.  Eg: ".com", ".co".  (\.\w{2,3})+ specifies that the above expression could occur one or more times.  Eg: ".com", ".co.ca", etc. |
| comment |  |  |

We combine the sign up and log in page together in one page and one html file.

In a signup form, there are three validations for each field by using Java script.

Firstly, user name only accepts minimum 1 letter to maximum 15 letters, a user can use only English characters, numeric digits and \_ (under bar).

Secondly, e-mail field accepts the e-mail address which matches defined regular expression. Username of the e-mail (before the @ sign) must begin with at least one word character (a-z, A-Z, 0-9 and \_), followed by more word characters or “.” or “-“. Thus, the string can not contain “..”,”- -“, “.-“ or “-.”Also, the string must contain @ sign between user name and domain name. As for the domain name (after the @ sign), there are in the same pattern above. Suffix must be 2 to 3 letters and It can be repeated one or more times.

In addition, password field accepts the password which is minimum 6 letters to maximum 10 letters, a user can use only English characters, numeric digits and \_ (under bar).

In the two fields mentioned above, if the user delete all the letter in the blank and want to submit with the blank, the red alert will show errors there.

In this field, when a user tries to send an invalid value to server, pop-up alert will appear on the screen and return false.

Finally, submit button(sign up) field accepts only values which are proper. That’s mean, the submit button only works when all the error are fixed and followed the above validation.

As for a login form, we made three validations for username field, password filed and submit button field. All fields in this page are set same validation as validations which are set in a signup page.

At last, in the contact page, we made three validation for first name and last name field, email validation and the submit button field. All fields in this page are same to the form page validations.