Lab Exercises 6
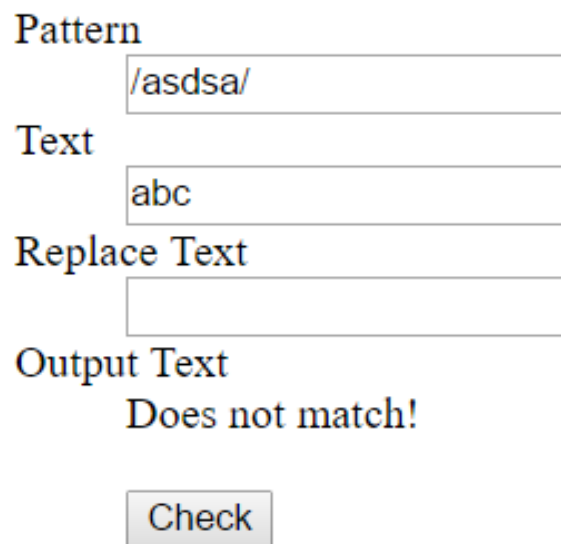
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The purpose of this lab is to practice Regular Expressions and Session/Cookies.

1   Regular Expressions

In this exercise, you are supposed to practice regular expressions. They are very helpful in validating user input, processing strings and extracting required data. For quick reference and online checking of your RegEx patterns you can use `http://gskinner.com/RegExr/`.

In `webpage` folder review `regex_valid_form.php` file. It tells you if particular RegEx pattern matches given text.

Figure 1: Pattern Validation Form

Make following tests and if necessary modifications to the code to fulfill below tasks:

- Check if a string contains another string. For ex, check if string 'The quick brown fox' contains word 'quick'.

- Check if a string contains an email string.

- Check if a string contains a phone number of format +998-##-###-####, for ex (+998-97-1444444).

- Write a PHP script that removes the whitespaces from a string. Sample string: 'The quick " " brown fox'. Expected Output : Thequick""brownfox

- Write a PHP script to remove nonnumeric characters except comma and dot. '$123,34.00A' ⇒ 12,334.00

- Write a PHP script to remove new lines (characters) from a string.

  "Twinkle, twinkle, little star,
  How I wonder what you are.
  Up above the world so high,
  Like a diamond in the sky." ⇒
  "Twinkle, twinkle, little star, How I wonder what you are. Up above the world so high, Like a diamond in the sky."

- Write a PHP script to extract text (within parenthesis) from a string.

  'The quick brown [fox].' ⇒ 'fox'

2 Validation Form

In this exercise you should modify `index.php` to validate input which corresponds to following rules

Name This field is required. It has to contain at least 2 chars. It should not contain any number.

Email This field is required. It should correspond to email format.

Username This field is required. It has to contain at least 5 chars.

Password This field is required. It has to contain at least 8 chars.

Confirm Password This field is required. It has to be equal to Password field.

Date of Birth Date should be written in `dd.MM.yyyy` format. For ex, 07.03.2019

Gender Only 2 options accepted: Male, Female.

Marital Status Only 4 options accepted: Single, Married, Divorced, Widowed

Address This is required field.

City This is required field.

Postal Code This is required field. It should follow 6 digit format. For ex, 100011

Home Phone This is required field. It should follow 9 digit format. For ex, 97 1234567

Mobile Phone This is required field. It should follow 9 digit format. For ex, 97 1234567

Credit Card Number This is required field. It should follow 16 digit format. For ex, 1234 1234 1234 1234

Credit Card Expiry Date This is required field. Date should be written in `dd.MM.yyyy` format. For ex, 07.03.2019

Credit Card Expiry Date This is required field. Date should be written in `dd.MM.yyyy` format. For ex, 07.03.2019

Monthly Salary This is required field. It should be written in following format UZS 200,000.00

Web Site URL This is required field. It should match URL format. For ex, http://github.com

Overall GPA This is required field. It should be a floating point number less than 4.5

3 Password Validation (Bonus Task)

Read following article http://www.rexegg.com/regex-lookarounds.html about lookarounds in RegEx and then modify password field so it corresponds following rules:

1. The password must have between six and ten word characters \w

2. It must include at least one lowercase character [a-z]

3. It must include at least three uppercase characters [A-Z]

4. It must include at least one digit \d