Internet and Web Programming CSE3002 Fall Semester 2020-21

Lab Assignment 2

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Question:

Design the webpage with the types of Cascading style sheets (CSS) – internal, external and inline styles. Using CSS and HTML create a webpage that has two columns. Each column should use half of the width of the page. The left half should have a light gray background and the right half should have a light green background. The webpage right column should show the recipe for grilled cheese sandwiches with bacon and tomato. The ingredients should be displayed in left column as an unordered list, with no bullets. meat ingredients should have a light red background color, vegetables should have a light green background, and dairy products should have a light yellow. The title should be in a sans serif font of your choice, and the instructions should have a heading "Instructions" and the font for the instructions should be italic.

Procedure:

<!DOCTYPE html>: Tells browser that it is an HTML document

<head>: Container for header elements

<title>: Name for toolbar

<body>: Body element for document

<style>: Styles for the different elements

<h2>: Heading of level 2

align: alignment on the HTML document

: Defines a paragraph

<frameset>: Used to divide the document into multiple sections where different documents can be loaded in each section.

k>: Link external plugins or scripts

rel: defines the relationship between the current document and the linked document

type: specifies the type of linked document

href: the link to the document

ul>: Defines unordered list

style: Defines the style of the unordered list.

: Defines individual list item

background-color: Defines the background colour of the element

font-size: Defines the font size of the enclosed font

text-align: Defines the alignment of the text

font-family: Defines the font of the text

font-style: Defines the style of font like bold, italic etc.

padding-left: Defines the left padding

padding-right: Defines the right padding

Code:

index.html

ingredients.html

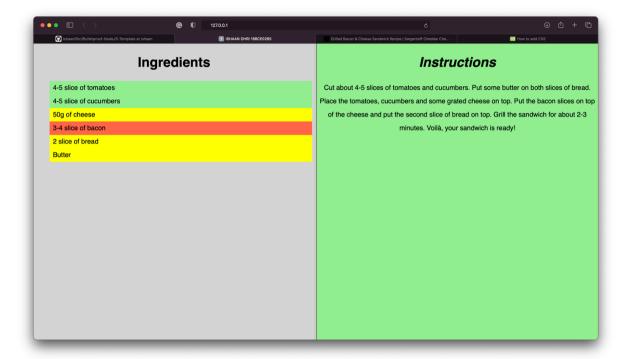
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Recipe</title>
  <style>
     body{
        background-color: lightgrey;
        font-size: 20px;
  </style>
  <link rel="stylesheet" type="text/css" href="./style.css">
  <h2 style="text-align: center; font-family: sans-serif; font-size: 40px;"</pre>
>Ingredients</h2>
  4-5 slice of tomatoes
     4-5 slice of cucumbers
     50g of cheese
     3-4 slice of bacon
     2 slice of bread
     Butter
  </html>
```

recipe.html

style.css

```
p{
    font-family: sans-serif;
    line-height: 40px;
    text-align: center;
}
.veg{
    background-color: lightgreen;
    padding-left: 10px;
    padding-right: 10px;
}
.meat{
    background-color: tomato;
    padding-left: 10px;
    padding-right: 10px;
}
.dairy{
    background-color: yellow;
    padding-left: 10px;
    padding-left: 10px;
    padding-right: 10px;
}
```

Output:



Question:

Write a javascript program to validate HTML form fields in a webpage.

Design a Registration Webpage for an insurance company.

The form must contain a minimum of 10 fields.

Implement Java Script with regular expression to validate the following

For Last Name field - the last name should be dot(.) followed by single letter combination(Note:.K or .N.L is allowed.kumar or Nakul is not allowed).

For E-Mail ID accept only the gmail ID.

With the Data of Birth input, calculate the age of the person and populate it in the textbox automatically.

Validate the form for empty field submissions.

Procedure:

<!DOCTYPE html>: Tells browser that it is an HTML document

<head>: Container for header elements

<title>: Name for toolbar

<body>: Body element for document

<style>: Styles for the different elements

<h1>: Heading of level 1

align: alignment on the HTML document

<form>: Creates an HTML form for user input

action: backend script to process data

method: API request method

: Defines a table

cellpadding: Space to left on all 4 sides inside the cell

: Defines a new table row

: Defines a cell

<input>: Declare input controls that allow users to input data.

type: Defines the type of input text/radio/checkbox

name: Defines the name of the <input> element

id: Unique id to identify

pattern: Defines pattern of input data

required: Compulsory to enter

value: Defines the value of the option in radio/checkbox

<|abel>: Represents a caption for an item in a user interface

For:

<textarea>: Multi-line text input control

rows: Min no of rows

cols: Min no of cols.

background-color: Defines the background colour of the element

font-size: Defines the font size of the enclosed font

text-align: Defines the alignment of the text

font-family: Defines the font of the text

font-style: Defines the style of font like bold, italic etc.

padding-left: Defines the left padding

padding-right: Defines the right padding

Code:

index.html

```
</head>
    <h1 align="center">Insurance Details</h1>
        <form id="insurance-form" onsubmit="submitForm()" action="submit"</pre>
method="POST">
            First Name:
            <input type="text" id="first-name" required>
            Last Name:
            <input type="text" id="last-name" required>
            Date of Birth (DD/MM/YYYY):
            <input type="date" id="dob" onblur="calculateAge()" required>
            Age:
            <input type="number" id="age">
            Gender:
            <input type="radio" name="gender" value="male" checked>Male
            <input type="radio" name="gender" value="female">Female
            <input type="radio" name="gender" value="other">0ther
            Email ID:
            <input type="email" id="email" required style="text-transform:</pre>
lowercase;">
            Mobile Number:
            <input type="text" id="mobile" required>
            Address:
            <textarea id="address" rows="5" cols="30" required></textarea>
            Pincode:
            <input type="text" id="pincode" required>
            Do you have any Health Problems ?
            <input type="radio" name ="health" value="yes">Yes
            <input type="radio" name ="health" value="no" checked>No<br><br>
            List health problems if any :
            <textarea id="health-problems" rows="5" cols="30" ></textarea>
            <input type="submit" value="Validate"/> <br>
    </div>
</body>
```

```
body{
    background-color: rgb(20,20,20);
    font-family: Verdana, Geneva, Tahoma, sans-serif;
    color: rgb(16, 229, 125);
form{
    text-align: center;
    font-size: 1em;
    font-weight: 700;
    font-family: Verdana, Geneva, Tahoma, sans-serif;
input{
    height: auto;
    width: auto;
    padding: 5px 10px 5px 10px;
    text-transform: capitalize;
    background-color: rgb(20,20,20);
    border: 2px solid rgb(156,156,156);
    border-radius: 5px;
    color: white;
    font-size: 1em;
    font-family: Verdana, Geneva, Tahoma, sans-serif;
textarea{
    padding: 5px 10px 5px 10px;
    text-transform: capitalize;
    background-color: rgb(20,20,20);
    border: 2px solid rgb(156,156,156);
    border-radius: 5px;
    color: white;
    font-size: 1em;
    font-family: Verdana, Geneva, Tahoma, sans-serif;
```

script.js

```
function calculateAge(){
    var dob = document.getElementById("dob");
    var date = dob.value.substr(0,2);
    var month = dob.value.substr(3,2);
    var year = dob.value.substr(6,4);
    var current = new Date();

    var age = current.getFullYear() - year;
    if(
        current.getMonth() < month ||
        (current.getMonth() == month && current.getDate() < date)
    ){
        age = age - 1;
    }
    currentAge = document.getElementById("age");</pre>
```

```
currentAge.value= age;
}

function submitForm() {
    var pattern = /^([.][A-Z])*$/;
    var text = document.getElementById("last-name");
    if(!pattern.test(text.value)){
        alert("Enter Correct Last Name");
        text.focus();
    }

    var pattern = /^[a-z0-9._-]+@[gmail]+.[com]{2,5}$/i;
    var text = document.getElementById("email");
    if(!pattern.test(text.value)){
        alert("Enter Correct Email");
        text.focus();
    }
}
```

Output:

