

Full Stack Development Day 7

Assignment Problem Solutions

1. Validation of Date of Birth

```
<!DOCTYPE html>
<html>
  <head>
    <title>Age Verification</title>
    <script>
      function check(){
        var p=/^(([0-2][0-9])|([3][0-1]))/[ ]([0-9])|([1][0-2]))/[ ]([1][9][0-9]{2})|([2][0-9]{3})$/;
        var dob=document.getElementById("txtdob").value;
        var yr=dob.split("/");
        if(p.test(dob)){
          if((2020-parseInt(yr[2]))>=18){
            window.alert("Eligible");
          }
          else{
            window.alert("Not Eligible");
          }
        }
        else{
          window.alert("Enter correct Date (dd/mm/yyyy)");
        }
      }
    </script>
  </head>
  <body>
    Date of Birth: <input type="text" placeholder="Enter Date" id="txtdob"/>
    <button type="button" onclick="check()">Check</button>
  </body>
</html>
```

2. Validation of Password contains 1 Lower case, 1 Upper case and 1 Digit

Regular Expression

Regular Expression

Javascript
flags

/[^](?¹?.*[a-z])(?²?.*[A-Z])(?³?.*[0-9])(?⁴?.*[@#\$]).{5,12}\$/_g

1 match

Test String

Anil12@2

Validate using javascript Function

```

<!Doctype html>
<html>
  <head>
    <title>Password Validation</title>
    <script>
      function passValidate(){
        var valpass = document.getElementById('txtPassword').value;
        if(/^(?1?.*[a-z])(?2?.*[A-Z])(?3?.*[0-9])(?4?.*[@#$]).{5,12}$/.test(valpass)){
          document.getElementById('lblError').innerHTML = 'Valid Password';
        }
        else{
          document.getElementById('lblError').innerHTML = "Invalid Password";
        }
      }
    </script>
  </head>
  <body>
    <input type="password" id="txtPassword" />
    <br />
    <span id="lblError"></span>
    <button type="button" onclick="passValidate()">PasswordValidation</button>
  </body>
</html>

```

Sample Project on Javascript Validation

Step 1:

```

<form method="post" target="#" onsubmit="return validate()">
<h1>Sign up to {this}</h1>
<p>To be able to use all features of {this} you will require an account.
  The form below will allow you to create a new account if you don't have one yet.</p>

  Name<br>
  <input type="text" name="name"><br>
  Email<br>
  <input type="text" name="email"><br>
  Retype email<br>
  <input type="text" name="retype_email"><br>
  Create a password<br>
  <input type="password" name="password"><br>
  Retype password<br>
  <input type="password" name="retype_password"><br>

  <label>
    <input type="checkbox" name="terms">By signing up to {this} you agree to your
    <a href="#service">Terms of Service</a> and <a href="#policy">Privacy Policy</a>
  </label>

  <div class="button">
    <input type="submit" class="button" value="Set Up Account">
  </div>

```

Step 2:

```
function validate() {  
    var result = "";  
    result += validateName();  
    result += validateEmail();  
    result += validatePassword();  
    result += validateTerms();  
  
    if (result == "") return true;  
  
    alert("Validation Result:\n\n" + result);  
    return false;  
}  
  
function validateName() {  
    var name = document.getElementsByName("name")[0].value;  
    if (name.length <= 3)  
        return "Name should be at least three characters.\n";  
    return "";  
}  
  
function validatePassword() {  
    var password = valueOf("password");  
    var retype = valueOf("retype_password");  
  
    if (password.length <= 6)  
        return "Password should be at least 6 characters.\n";  
  
    if (password != retype)  
        return "Passwords do not match.\n";  
    return "";  
}
```

```
function validateEmail() {
    var email = valueOf("email");
    var retype = valueOf("retype_email");

    if (email.indexOf('@') == -1)
        return "Email should be a valid address.\n";

    if (email != retype)
        return "Email addresses do not match.\n";
    return "";
}

function validateTerms() {
    var terms = document.getElementsByName("terms")[0];
    if (!terms.checked)
        return "Please accept the Terms of Service and Privacy Policy";
    return "";
}

function valueOf(name) {
    return document.getElementsByName(name)[0].value;
}
```

Step 3:

```

body {
  font-family: Verdana, sans-serif;
}

input {
  border-radius: 5px;
  padding: 5px;
}

div.button {
  text-align: right;
}

a {
  text-decoration: none;
  color: ■ #e51;
}

form {
  width: 480px;
  margin: auto;
  padding: 5px;
  border: solid ■ black 1px;
  border-radius: 5px;
  box-shadow: 5px 5px 2px ■ #888;
}

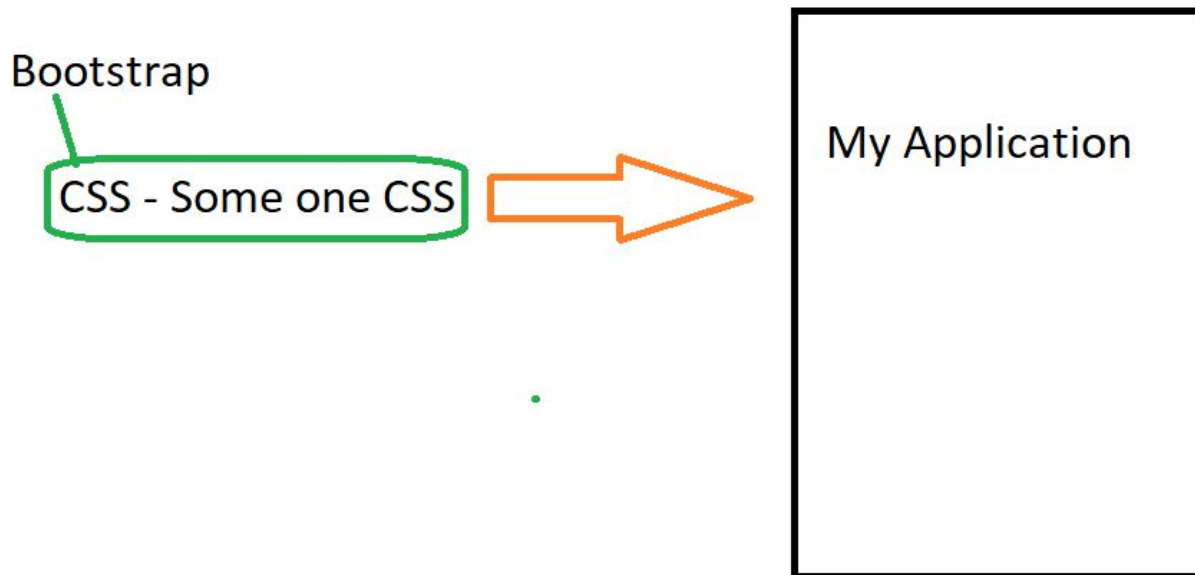
```

Summary Javascript:

1. Javascript can be used as Client Side Scripting
2. Javascript is one the of the primary Web Programming

3. Javascript makes less round trips (request and response) to the server so that application performance will be increased
4. Client Side scripting will reduce the burden on servers.

Bootstrap Version 4.0



1. Bootstrap is one of the front end frameworks for faster and easier web applications
2. Bootstrap is CSS Framework that gives better and effective web application designs

3. Bootstrap is used for responsive designs (It can fit to any device like mobile, tablet, laptop and desktop) and it have browser compatibility also (Firefox, Chrome, Internet Explorer 10+ and safari)

How to Get this Bootstrap to My Application

1. Bootstrap CDN(Content Delivery Network)
2. Download from getbootstrap.com

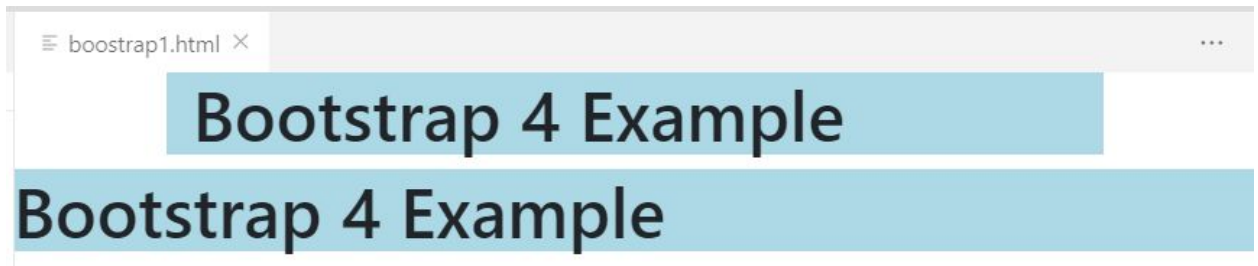
Min.extension as min.css and min.js , Minification means it will remove the white spaces in the given source file

Let's get started with Bootstrap:

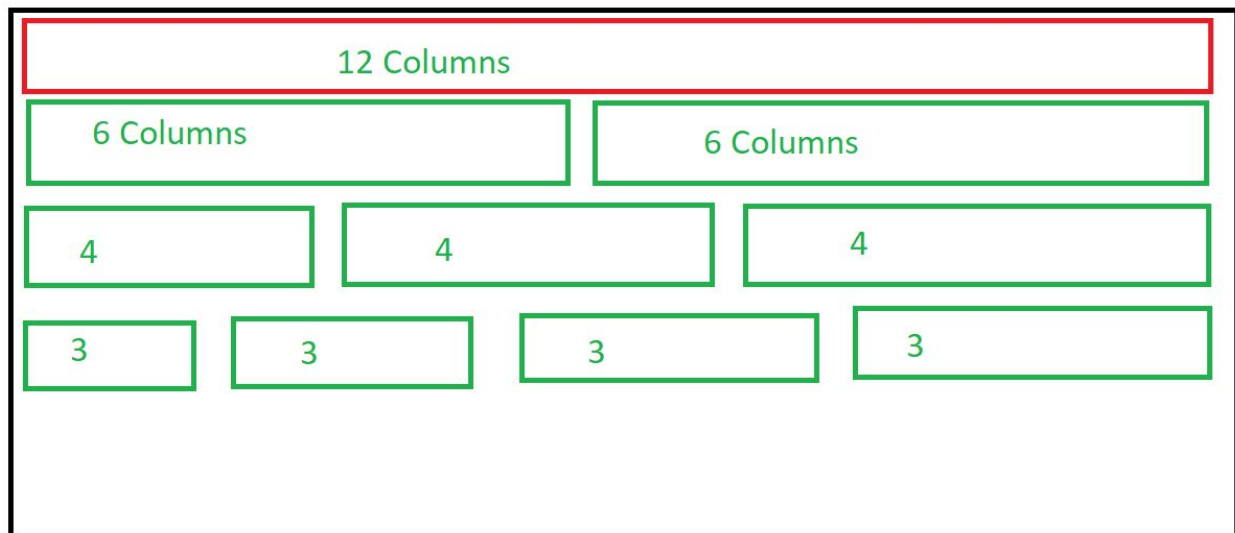
1. Container class

Container and container-fluid

```
<!DOCTYPE html>
<html>
  <head>
    <title>Bootstrap Local </title>
    <link rel="StyleSheet" href="bootstrap-4.4.1-dist/css/bootstrap.min.css" />
    <script src="bootstrap-4.4.1-dist/js/bootstrap.min.js"></script>
    <style type="text/css">
      .a1{
        background-color: lightblue;
      }
    </style>
  </head>
  <body>
    <div class="container a1">
      <h1>Bootstrap 4 Example</h1>
    </div>
    <div class="conatiner-fluid a1">
      <h1>Bootstrap 4 Example</h1>
    </div>
  </body>
</html>
```

Bootstrap 4 Grid Formatting



```
<head>
  <link rel="StyleSheet" href="bootstrap-4.4.1-dist/css/bootstrap.min.css" />
  <script src="bootstrap-4.4.1-dist/js/bootstrap.min.js"></script>
  <style type="text/css">
    .a1{
      background-color: lightblue;
    }
  </style>
</head>
```

```
<body>
  <div class="container-fluid">
    <div class="row a1">
      <div class="col-md-12">
        <h1>Dhayanahita-DSPS</h1>
      </div>
    </div>
    <div class="row a1">
      <div class="col-md-6">
        <h1>Dhayanahita-DSPS</h1>
      </div>
      <div class="col-md-6">
        <h1>Dhayanahita-DSPS</h1>
      </div>
    </div>
    <div class="row a1">
      <div class="col-md-4">
        <h1>Dhayanahita-DSPS</h1>
      </div>
      <div class="col-md-4">
        <h1>Dhayanahita-DSPS</h1>
      </div>
      <div class="col-md-4">
        <h1>Dhayanahita-DSPS</h1>
      </div>
    </div>
  </div>
</body>
```
