

CSE2015 - INTERNET PROGRAMMING AND WEB TECHNOLOGIES

LAB MIDTERM

DATE - 28TH FEB, 2022

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Question 1 -

1. (a) Create a webpage with an image on it. When page loads, display an image at randomly from list of images and display on the top. [3H+7JS]

(i) Change the image at every 4 seconds.

(ii) When all the images are displayed at most once, start the display again.

(b) Get username, phone-no, birthdate from the user and validate each field appropriately. Assume that date has (DD-MM-YY) format, Phone Number has STD Code (+##), No (#####) format. Validate using JS regular expressions.

A - aim - to change images every 4 second

HTML -

```
<!DOCTYPE html>

<html lang="en">

  <head>

    <meta charset="UTF-8" />

    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
```

```
    <meta name="viewport" content="width=device-width,
initial-scale=1.0" />

    <title>Question 1</title>

</head>

<body>

    <div class="main">

        <h1>Question 1 - Change image after 4 seconds</h1>

        <h2 id="image-number">Image 1</h2>

        <div class="image-container">

        </div>

    </div>

    <script src="./ques_1.js"></script>

</body>

</html>
```

Javascript -

```
const image = document.getElementById('image');

const imageNumber = document.getElementById('image-number');

const imagesArray = [

    'bear.jpg',

    'bird.jpg',

    'cat.jpg',

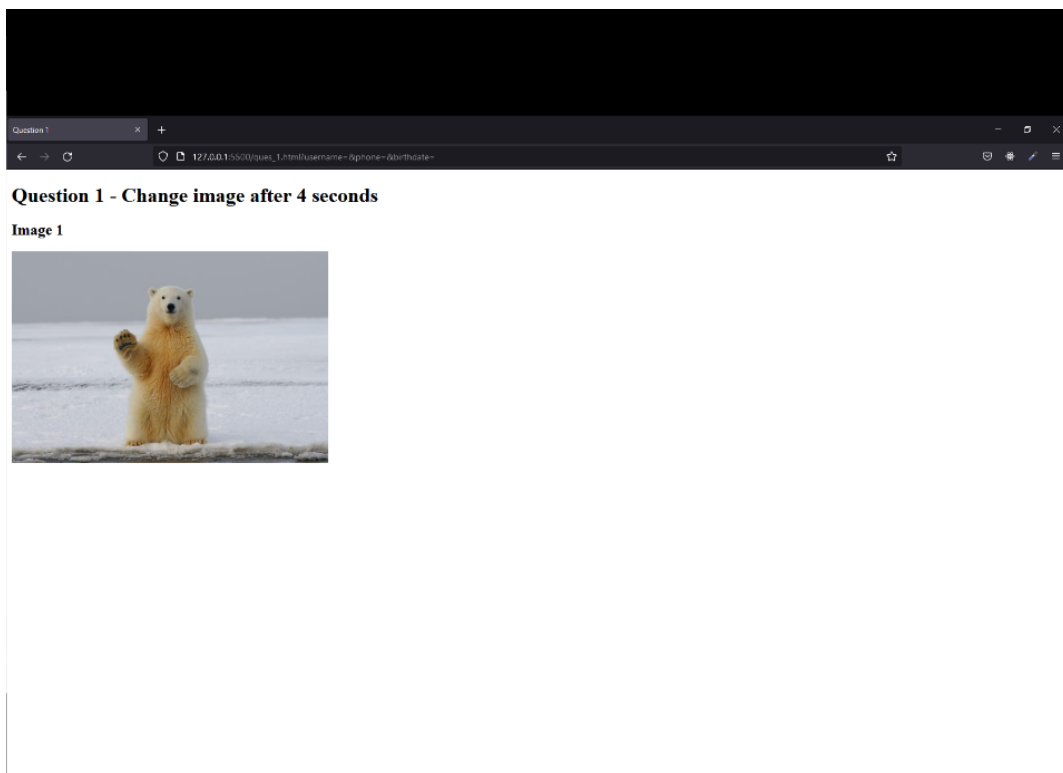
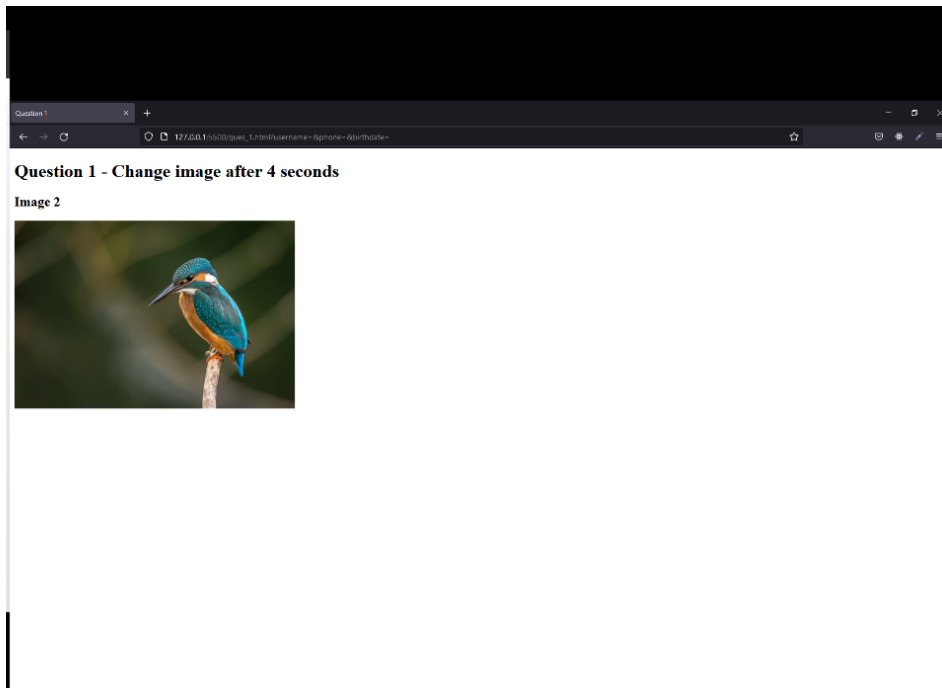
    'deer.jpg',

    'dog.jpg',

    'fox.jpg',
```

```
    'giraffe.jpg',  
  
    'leopard.jpg',  
  
    'panda.jpg',  
  
    'tiger.jpg',  
  ];  
  
  let currentIndex = 1;  
  
  let imagesArrayLength = imagesArray.length;  
  
  const changeImage = () => {  
  
    const newIndex = currentIndex % imagesArrayLength;  
  
    image.src = `./assets/${imagesArray[newIndex]}`;  
  
    imageNumber.innerText = `Image ${newIndex+1}`;  
  
    currentIndex++;  
  
  };  
  
  setInterval(changeImage, 4000);
```

Output -



B -

To validate forms inputs using javascript

HTML -

```
<!DOCTYPE html>

<html lang="en">

  <head>

    <meta charset="UTF-8" />

    <meta http-equiv="X-UA-Compatible" content="IE=edge" />

    <meta name="viewport" content="width=device-width,
initial-scale=1.0" />

    <title>Question 1</title>

  </head>

  <body>

    <form>

      <div class="form-control">

        <label for="username">Username: </label>

        <input type="text" id="username" name="username" />

      </div>

      <br />

      <div class="form-control">

        <label for="phone">Phone Number: </label>

        <input

          type="number"

          id="phone"

          name="phone"

          maxlength="13"

          min="0"

        />

      </div>

    </form>

  </body>

</html>
```

```

        />

    </div>

    <br />

    <div class="form-control">

        <label for="birthdate">Date of birth: </label>

        <input type="name" id="birthdate" name="birthdate" />

    </div>

    <br />

    <button type="submit">Submit</button>

</form>

<script src="./ques_1.js"></script>

</body>

</html>

```

Javascript -

```
const form = document.querySelector('form');
```

```
const validateForm = (e) => {
    e.preventDefault();
    const username = document.getElementById('username');
    const phone = document.getElementById('phone');
    const birthdate = document.getElementById('birthdate');

    const isUsernameValid = username.value.length > 0 ? true : false;
    if (!isUsernameValid) {
        alert('Enter username');
    }
    const birthdateRegex =
```

```

/^((?:31(V|\.)(?:0?[13578]|1[02]))\1|(?:(?:29|30)(V|\.)(?:0?[13-9]|1[0-2])\2))(?:1[6-9]|2[0-9]\d)?\d{2})$|^((?:29(V|\.))0?2\3(?:1[6-9]|2[0-9]\d)?(?:0[48]|2[468][048]|13579[26])|(?:16[2468][048]|3579[26])00)))$|^((?:0?[1-9]|1\d|2[0-8])(V|\.)(?:0?[1-9])|(?:1[0-2]))\4(?:1[6-9]|2[0-9]\d)?\d{2})$/;

```

```

const isBirthDateValid = birthdateRegex.test(birthdate.value);

```

```

if (!isBirthDateValid) {

```

```

    alert('Enter Date in DD-MM-YYYY format');

```

```

}

```

```

console.log(isBirthDateValid);

```

```

function useRegex(input) {

```

```

    let regex = '+d{2}([ ]*)d{10}';

```

```

    return regex.test(input);

```

```

}

```

```

const phoneValid = useRegex(phone.value);

```

```

if (!phoneValid) {

```

```

    alert('Phone number not valid');

```

```

}

```

```

console.log(username);

```

```

console.log(phone);

```

```

console.log(birthdate.value);

```

```

};

```

```

form.addEventListener('submit', validateForm);

```

Output -

Username:

Phone Number:

Date of birth:

127.0.0.1:5500

Enter username

OK

Username:

Phone Number:

Date of birth: