

Assignment 1

by Ruzy Aktar

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Module : Web Technologies

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Introduction

For this report the student will be creating a basic website including 3 pages. These 3 pages will consist of HTML, CSS and Javascript. The idea of this website is to show basic javascript knowledge, demonstrating number of programming concepts that has been covered during the students lecture for her module.

Javascript is the main component for this report and has been successfully added to the website. Below in this report are screenshots and a description of how the chosen javascript works.

Javascript is a language used to make and control website content. Meaning anything that can move , refreshes or can change on a user's phone screen or pc without having to physically do anything essentially is javascript.

HTML - is the structure for the website , e.g. body text. Headers.

CSS – How the page is viewed.

Javascript components for the website.

Parallax background scrolling effects

As you can see below the student has chosen a parallax background effect for the website this is the main javascript element for two pages. Parallax background gives the page a 3D effect, this is done by creating the background to be slower while the text is moving fast controlled by the viewer. This gives the website a good illusion, in summary it's a background scrolling image which is moved to a different speed than the front contents while the user is scrolling.

In order to put this into action, it is very simple the user created tags called '`<div class="pimg1">`' this is to allow where the images would be placed. As there are 3 sections the user repeated the code 3 times but changed the numbers e.g. 1,2,3 on the end of 'PIMG'.

Then the student created section tags '`<section>`', section tags define text. As there are 3 sections, the code was repeated also but each section had a class attached to create a normal , light and dark effect added, to create a nice gradient effect. To add the text a class was created called '`<ptext>`', then a span class called border to create the border where the title of the image would be inside it.

These steps were repeated , to create the 3 sections. To insert the images, it was done on the CSS page. Each image was added by a 'URL' with the appropriate height.

```
<div class="pimg1">
<div class="ptext">
  <span class="border">
    The Universe
  </span>
</div>
</div>

<section class="section section-light">
<center>
<h2>The universe Is A Great Place</h2>
</center>
<p>
  The Universe is everything we can touch, feel, sense, measure or detect. It includes living things,
</p>
```

```
.pimg1{
  background-image:url('https://www.elsegce.cat/myimg/f/49-493424_get-1080p-space-wallpaper-and-make-this-wallpaper.
  min-height:800px;
}

.pimg2{
  background-image:url('https://fsmedia.imgix.net/45/80/e9/ef/abca/49f0/95db/c22bd7bde40f/space.jpeg');
  min-height:400px;
}

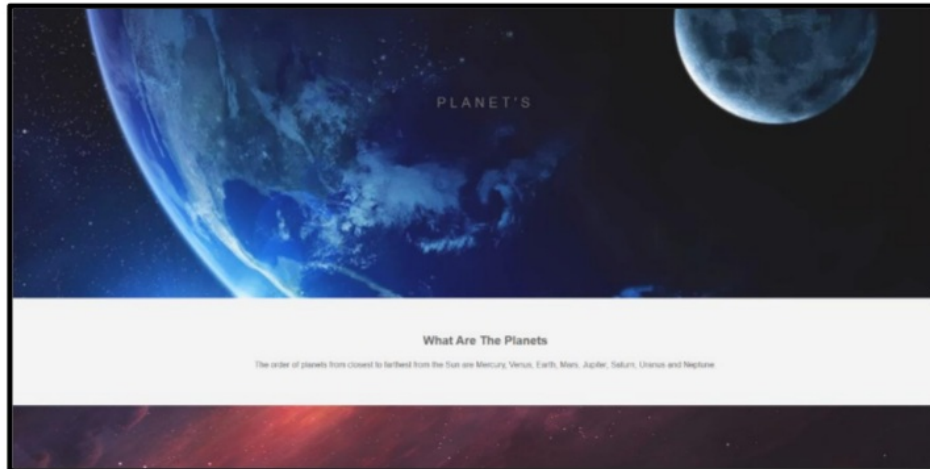
.pimg3{
  background-image:url('https://wallpaperaccess.com/full/691762.jpg');
  min-height:400px;
}
```

make the scrolling effect the student set the background attachment to fixed. Which gave the page the scrolling parallax effect. This allows the text to move but the background stays and makes it have that scrolling effect.

```
.pimg1, .pimg2, .pimg3{
    position:relative;
    opacity:0.90;
    background-position:center;
    background-size:cover;
    background-repeat:no-repeat;

    background-attachment:fixed;
```

Below is how the finished page layout looked.



Calculator

The student added a calculator form to her page. To create this the student used the 'option value' tag to create a drop-down list for a user to choose their options. This is what the browser displays. below in the screenshot the student has shown that the value attribute has been specified. This is what gets sent to the server when a form is submitted.

[illegible]

To get the result the student has added an '<input>' tag , this allows to specify where the user can type their data in. input tags are for forms to state input controls to let users to input data, this varies depending on what attribute.

To get the result working the student has created a function named 'CALC' . this function consists of 'IF' statements for the result. The 'getElementById' is a very useful method which returns a specified element that has the ID attribute to its specific value. For this website the ID for the function is 'result'. This function is saying to get the result from the values number 1 and number 2.

VAR is used for phrases, this describes variables. Below is a screenshot showing the functions for the calculator to work.

```
<script type="text/javascript">
function calc() {

var n1 = parseFloat(document.getElementById("n1").value)
var n2 = parseFloat(document.getElementById("n2").value)

var op = document.getElementById("opr").value
if(op === "+"){
document.getElementById('result').value = n1+n2;
}

if(op === "-"){
document.getElementById('result').value = n1-n2;
}

if(op === "x"){
document.getElementById('result').value = n1*n2;
}

if(op === "/"){
document.getElementById('result').value = n1/n2;
}

if(op === "%"){
document.getElementById('result').value = n1%n2;
}

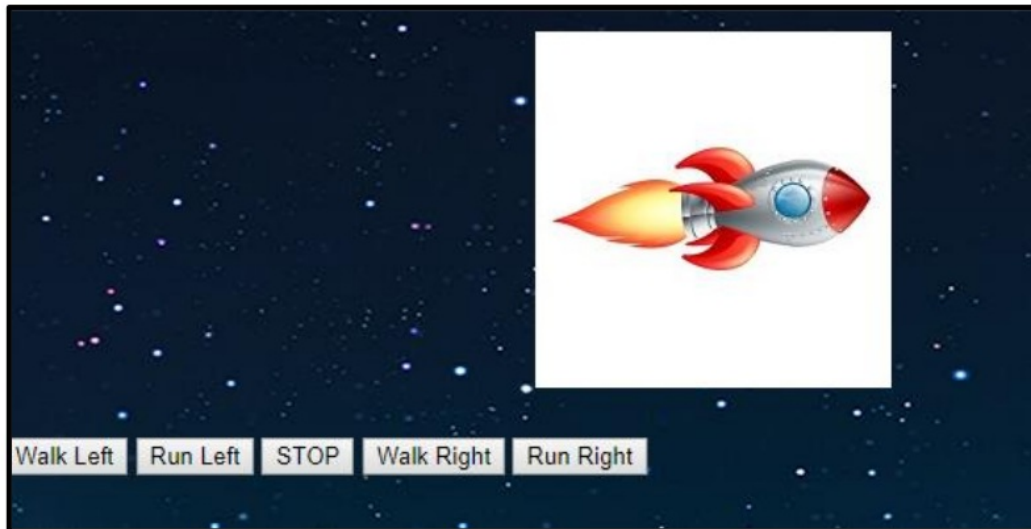
}
```

Contact form

The second javascript used for the website was a contact form. This was done by creating a form using the form tag '<form>' and to input the text the input tag was called '<input="text">'. Each box had tag called <label> this is to let users know what each field is called e.g. first name, last name etc. each box was also given a length and size by creating tags called '<maxlength>' '<size>'.
The '<td>' tag , interprets a cell in a HTML table, this is just for standard cells.

```
<center>
<form>
<table width="450px">
</tr>
<tr>
<td>
<label for = "first_name">First Name</label>
</td>
<td>
<input type="text" name="first_name" maxlength="50" size="30">
</td>
</tr>
<tr>
<td>
<label for="last_name">Last Name</label>
</td>
<td>
<input type="text" name="last_name" maxlength="50" size="30">
</td>
</tr>
<tr>
<td>
<label for="email">Email Address</label>
</td>
<td>
<input type="text" name="email" maxlength="80" size="30">
</td>
</tr>
<tr>
<td>
<label for="telephone"> Telephone Number</label>
</td>
<td>
<input type="text" name="telephone" maxlength="30" size="30">
</td>
</tr>
```

Rocket timer / Picture / rollover image



The student decided to have a rocket fly across, originally it was supposed to be an astronaut that is why the buttons are called 'walk' instead of 'fly'.

The rocket is a simple animation, below are the buttons created for the rocket to walk, run or stop, going either left or right of the page. This is how the animation will be controlled.

```
  
<br><br><br><br><br><br><br>  
<input type="button" value="Walk Left" onClick="javascript:movelleft()">  
<input type="button" value="Run Left" onClick="javascript:runleft()">  
<input type="button" value="STOP" onClick="javascript:stopit()">  
<input type="button" value="Walk Right" onClick="javascript:moveright()">  
<input type="button" value="Run Right" onClick="javascript:runright()">
```

For the javascript function the student has used 'getElementById and called it rocket because the ID is called rocket. This is important or the system won't know what to work.

In the function the student has mentioned what style the rocket should move this is done to set the directions the rocket will be going. Each function is named after what position it will be flying.

To determine the speed inside the function it is called 'speed math random' this is because the student wants the rocket to fly fast as much as it can. A timer has been set for the positions to go at a regular interval. To make the timer go continuously the student has set hers to timer for every second for users desired positions. This is done by using a variable. This is instructing what the javascript needs to do for it to work.

```
<script type="text/javascript">
var timer;//global varibale

function moveleft()
{
therocket=document.getElementById("rocket")
therocket.style.left=therocket.offsetLeft-10
}

function runleft()
{
stopit()
speed=Math.random()
speed=speed*100
timer=setInterval(moveleft,speed)//function,ho
//speed=speed*100
}

function stopit()
{
clearInterval(timer)
}

function moveright()
{
therocket=document.getElementById("rocket")
therocket.style.left=rocket.offsetLeft+10
}
```

However , another javascript is added to the function and this was to make one image change to another different image. Unfortunately, the student couldn't get it to work, but code has been provided for the attempt. This is labeled in the red box.

```
function runright()
{
stopit()
speed=Math.random()
speed=speed*100
timer=setInterval(moveright,speed)//function,how often in milisecond

const togglemodel= () => {
document.querySelector
}

var image_tracker='s';
function change() {
    var image = document.getElementById("stars");
    if(image_tracker==s) {
        image.src='moon.jpg';
        image_tracket='m';
    }
    else{
        image.src='sun.png';
        image_tracker='s';
    }
}
}
```

Below is the code for the HTML to make the pictures change.

```

```



Reference's used for website

<https://solarsystem.nasa.gov/planets/in-depth/>

<https://fsmedia.imgix.net/45/80/e9/ef/abca/49fo/95db/c22bd7bde4of/space.jpeg>

<https://www.technologyreview.com/s/422579/cosmos-at-least-250x-bigger-than-visible-universe-say-cosmologists/>

https://www.esa.int/Our_Activities/Space_Science/Extreme_space/What_is_the_Universe_made_of

<https://theplanets.org/planets/>

<https://fsmedia.imgix.net/45/80/e9/ef/abca/49fo/95db/c22bd7bde4of/space.jpeg>

<https://fsmedia.imgix.net/45/80/e9/ef/abca/49fo/95db/c22bd7bde4of/space.jpeg>

<https://wallpaperaccess.com/full/691762.jpg>

<https://papers.co/wallpaper/papers.co-mc56-wallpaper-galaxy-blue-7-starry-star-sky-30-wallpaper.jpg>

Assignment 1

GRADEMARK REPORT

FINAL GRADE

43/100

GENERAL COMMENTS

Instructor

Range of coding - I'm a bit unclear on the speed of light calculation - you invite the user to calculate, but afterwards it seems to be an addition calculator similar to that completed in class. You've said that you used Javascript for your contact form, but I can't find any, and in your report it seems to be entirely HTML. You would need to put some validation or similar in to demonstrate some Javascript skills. Rocket is OK, but almost identical to class - it even says walk and run as we did in class. You need use your skills to implement something a bit different (I can see that you did attempt this, but not fully working..

22/60

Overall integration of website - Generally OK, but there seems to be an unnecessary white space at the top of the page and the user needs to scroll to get to content (not really necessary as there is a lot of page "real estate" that is unused. 6/10

Analysis of technical development -

The writing style is a little stilted. You should not refer to yourself as "the student" throughout. You should use the passive voice here. For example "To get the result working, the student has created a function..." ... write this as "To get the result working, a function was created..." Take the active voice out entirely. You need more on WHY you took the approach you did, not just what you did. There is often more than one way to approach a problem.

7 /15

Annotated code listing(s) -

Generally OK, but it would be better to have some comments on the code itself, and maybe use arrows to indicate what part of the code you're talking about. This would make it easier for the reader to follow.

8 /15

Total: 43%

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