

(FINAL) Zaeem Assignment 1 - Gaynor

by Zaeem Gulammamodo

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Image [4]

Assignment 1

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1. Introduction

In this documentation, a website has been created with features of JavaScript and jQuery for the user to interact with the website. This website is to show how well website coding skills using HTML, CSS, JavaScript and jQuery have been developed. When creating the website, the program Notepad++ had to be used in order to type the HTML code, CSS code, JavaScript code and jQuery code.

What is JavaScript?

JavaScript will be a scripting language that is used produce and monitor interactive website content, for example, any element on the user displays which changes, refreshes, and sometimes updates without needing the website to be restarted manually. Features such as: [1]

- Images that are animated [1]
- Slideshows for images [1]
- Suggestions for autofill texts [1]
- Forms that are interactive [1]



Image [5]

What is jQuery?

jQuery is a list of JavaScript pre-written code (identified as a JavaScript library) that can be added to the various coding projects by the user. jQuery helps web developers to connect into a website routine JavaScript element so that they can spend more time working on complex elements specific to their website. [2]



Image [6]

2. Website

The created website will be focused on Marvel's The Avengers series. This topic was chosen because it is popular movie franchise. The Avengers website will contain five different created webpages and they are called:

- Home
- Cast
- Gallery
- Quiz
- References



Image [7]

2.1. Site-wide features

Light / Dark Mode

The first and only feature on every created web page will be a jQuery feature. This feature is called Light / Dark Mode. This feature will allow the user to change the interface display on the website for their specific purpose. This feature will change the colour of the background and the colour of the text font.

In the image below, it shows the website interface when the user selects light mode.

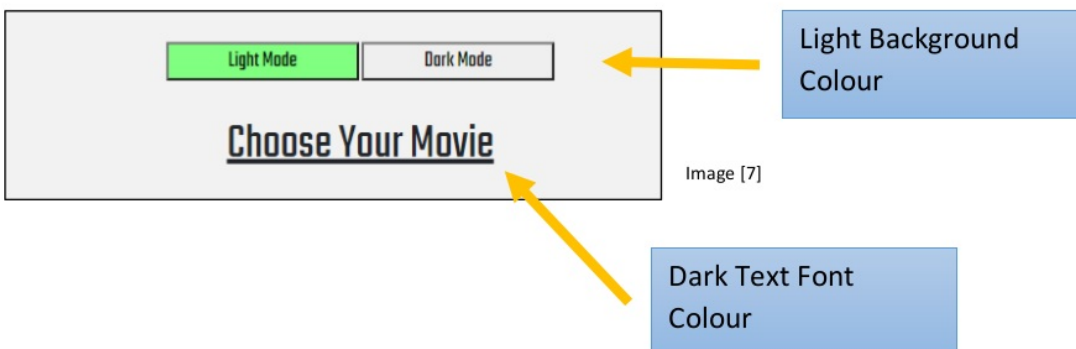
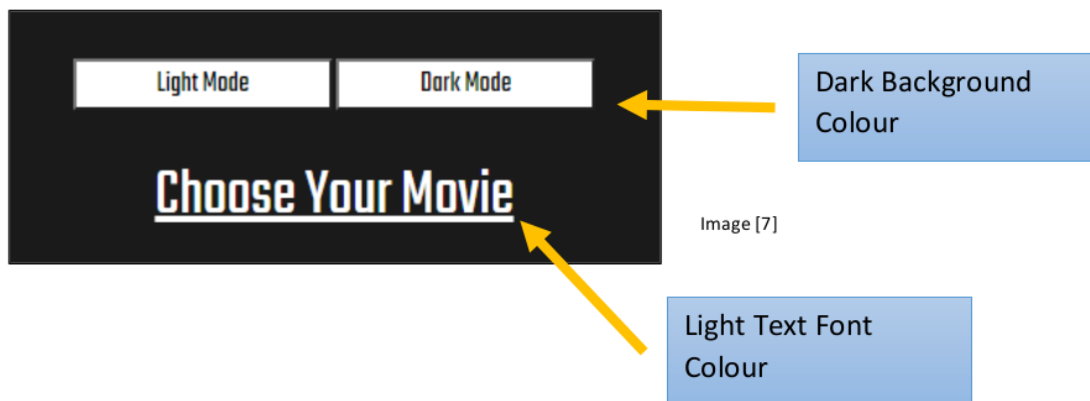


Image [7]

In the image below, it shows the website interface when the user selects dark mode.



This feature will allow users to choose their interface preferences as this is modern feature used within modern technology e.g. Smartphones, Tablets, Smartwatches etc.

Also, visual performance appears to be best with light mode in people with normal vision (or corrected-to-normal vision), while certain people with cataracts and associated disabilities may do better with dark mode. Long-term reading in light mode can be correlated with myopia, on the other hand. [3]

Below will be the annotated code listing for this feature

HTML:

```
<link rel="stylesheet" href="jquery-ui-1.12.1/jquery-ui.css"> <!-- this loads up the css file -->
```

This feature uses jQuery language so the user has to add the jQuery CSS file on the HTML code.

```
<!-- this will add buttons on the website -->

<center>

<button id="button1"><font size="4">Light Mode</font></button>

<button id="button2"><font size="4">Dark Mode</font></button>

</center>
```

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This feature uses interactive elements so the user has to add the button feature on the HTML code.

```
<!-- this will load up all of the javascript files -->  
  
    <script src="Assets/jquery-3.5.1.js"></script>  
  
    <script src="Assets/jquery-ui-1.12.1/jquery-ui.js"></script>  
  
    <script src="Assets/myscripts.js"></script>
```

This feature uses jQuery and JavaScript language so the user has to add the jQuery and JavaScript files on the HTML code.

jQuery:

```
$("#button1").click(['black','#ffd633','#f2f2f2'],buttonClicked); // this will  
change page to light mode settings  
  
$("#button2").click(['white','white','#1a1a1a'],buttonClicked) // this will change  
page to dark mode settings  
  
// this will add function on website - this will change specific items on the page  
when button is clicked  
  
function buttonClicked(e)  
{  
    $("#h1,p,h3,li,#message,#message1,h4").css("color",e.data[0])  
    $("body").css("background-color",e.data[2])  
    $("button").css("background-color",e.data[1])  
}
```

This feature uses jQuery and JavaScript language so the user has to configure the settings and functions on the JavaScript code.

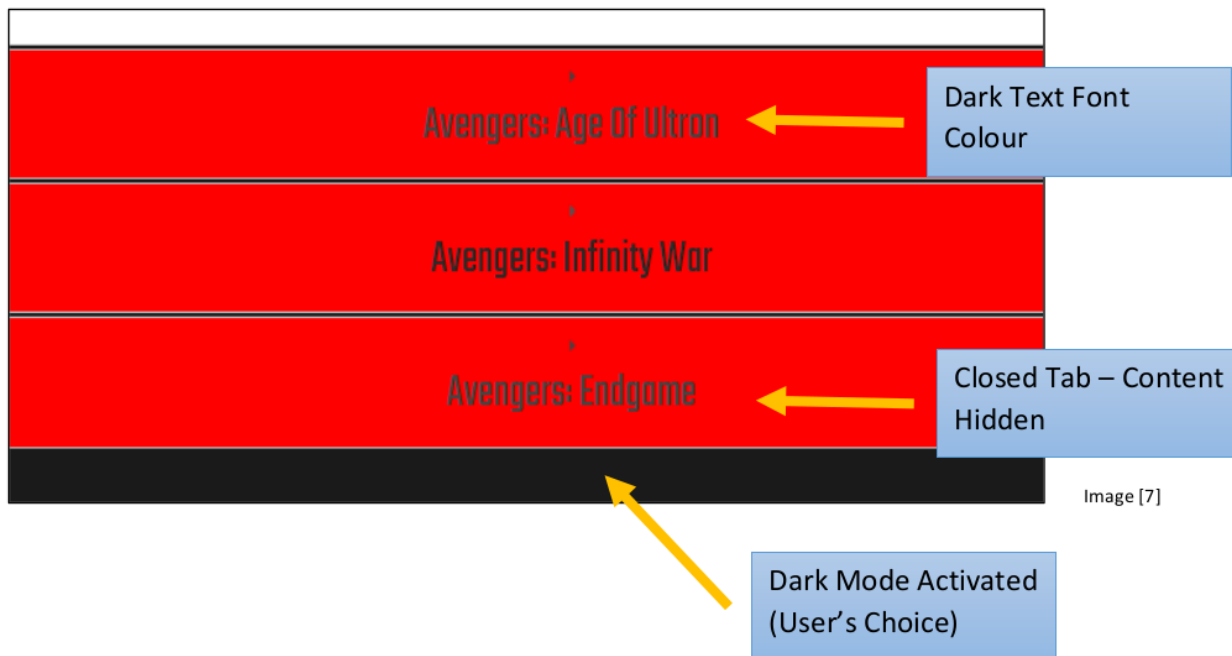
With this all of this code listing above, this feature has successfully been created and worked on the created website.

2.2. Home Page

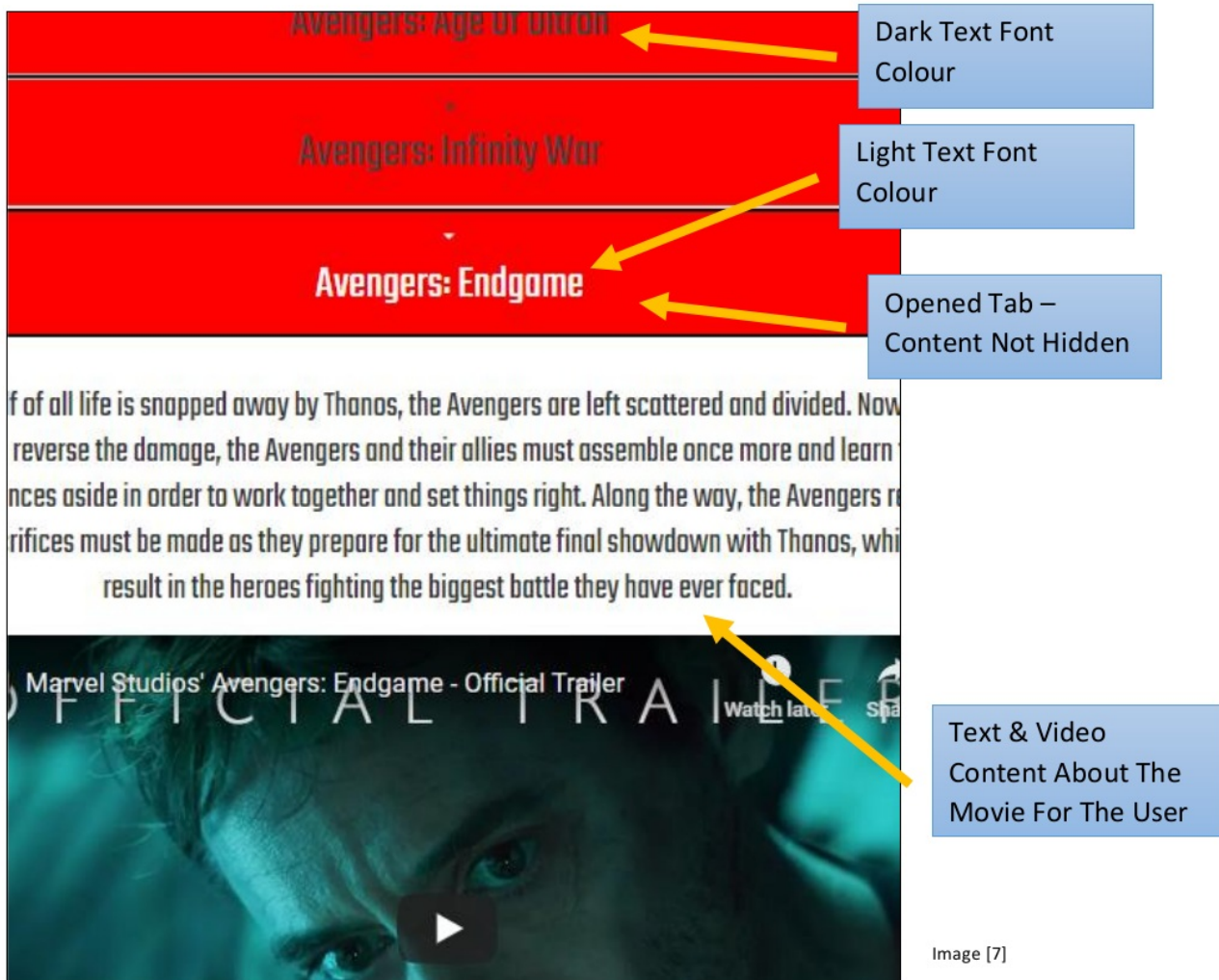
Accordion / Drop Down Menu

The first feature on the Home Page will be a jQuery feature. This feature is called Accordion / Drop Down Menu. This feature will allow the user to change the interface display on the website when they choose their specific content. This feature will change the content from one movie to another when the user selects the specific menu tabs.

In the image below, it shows the website interface when the user clicks Home Page.



In the image below, it shows the website interface when the user clicks one of the accordion tabs.



This feature will allow users to choose their specific content in a tidy and organised manner to view as this is modern feature used within modern technology e.g. Smartphones, Tablets, Smartwatches etc. This is also looking creative with the mini animation it shows when clicking the menu tabs.

This feature has prevented to create separate pages for each specific movie as the user can see all of the specific content on one organised webpage within a jQuery feature.

Below will be the annotated code listing for this feature.

HTML:

```
<!-- start of the drop down menu / accordion element -->
    <div id="mysections">

<center>

    <h2> <font face="Teko"> Avengers </font> </h2>

</center>

<div>

<p class="myfont"> <center><font face="Teko"><font size="5"> S.H.I.E.L.D.
has located the mysterious Tesseract device and the Army's super soldier
Captain America. The Tesseract is actually a gateway to an entirely new world
called Asgard. A mysterious being known as Loki arrives on earth and
immediately assumes that he can rule all human beings. But that irks
S.H.I.E.L.D. director Nick Fury the wrong way. As Loki escapes with the
Tesseract, Nick Fury believes this is an act of war against Earth. His only hope is
to assemble an actual team of super heroes. Dr. Bruce Banner, who turns into
an enormous green rage monster known as the Hulk. Tony Stark and his
venerable Iron Man armor. Captain America, the Stark Enterprises created
super soldier. Thor, the god of thunder, protector of Earth and his home planet
of Asgard, and Loki's brother. Master assassins Hawkeye and Natasha
Romanoff. Together they will become a team to take on an attack that will call
them to become the greatest of all time.</font></font> </center> </p>

<!-- this will add the video onto the website -->

<center>

<iframe width="700" height="400"
src="https://www.youtube.com/embed/eOrNdBpGMv8" frameborder="0"
allow="accelerometer; autoplay; encrypted-media; gyroscope; picture-in-
picture" allowfullscreen></iframe>

</center>

</div>
```

This feature uses jQuery and JavaScript language so the user has to configure the settings and add the content on the HTML code.

jQuery:

```
$(pageready)
// this will add function on website
function pageready()
{
$("#mysections").accordion(); // this will be a drop down menu / accordion
element
$(".ui-accordion-header").css("background","red");
}
```

This feature uses jQuery and JavaScript language so the user has to configure the settings and functions on the JavaScript code.

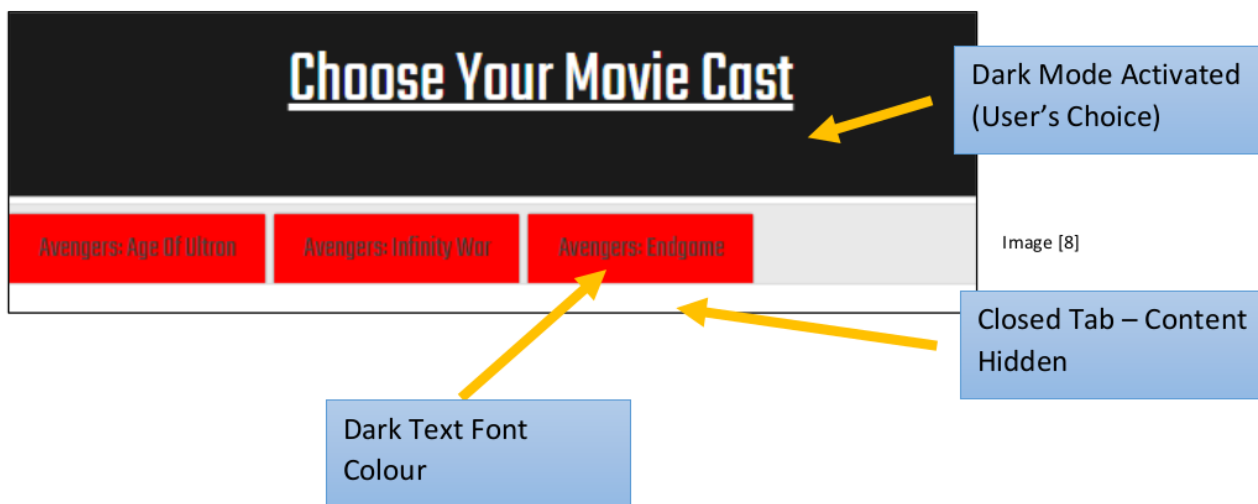
With this all of this code listing above, this feature has successfully been created and worked on the created website.

2.3. Cast Page

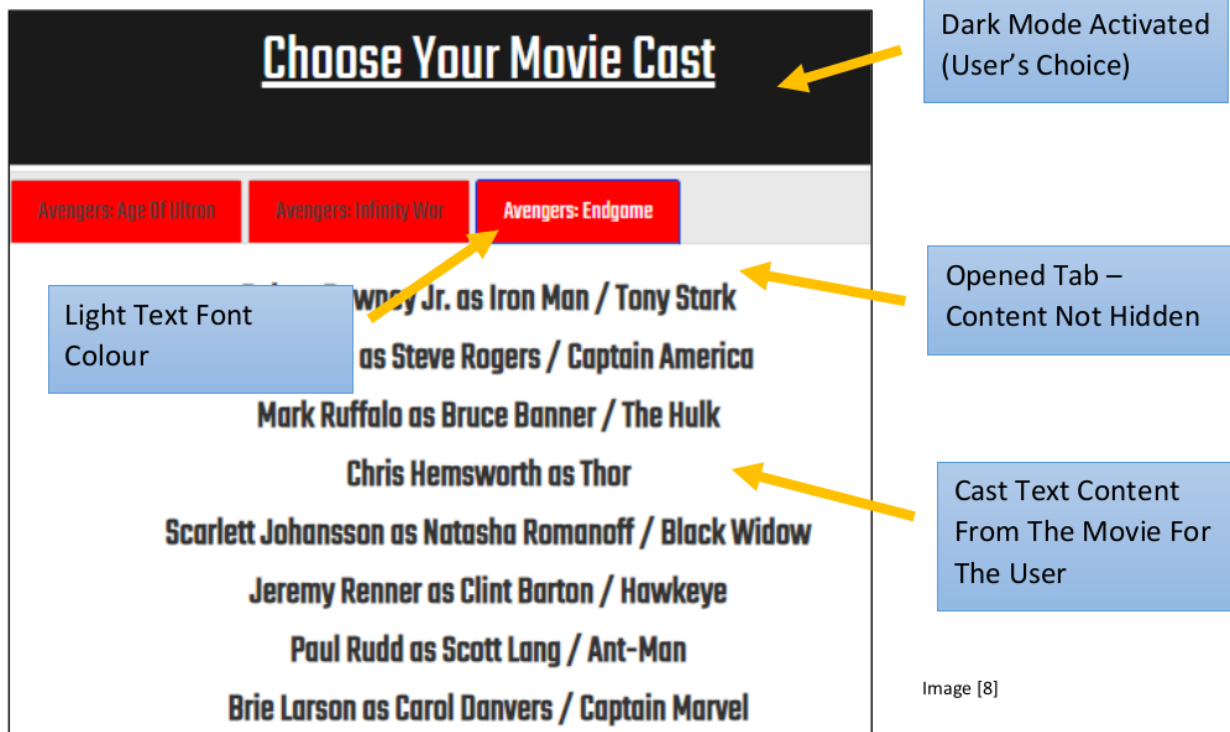
Tabs Menu

The first feature on the Cast Page will be a jQuery feature. This feature is called Tabs Menu. This feature will allow the user to change the interface display on the website when they choose their specific content. This feature will change the content from one movie cast to another when the user selects the specific menu tabs.

In the image below, it shows the website interface when the user clicks Cast Page.



In the image below, it shows the website interface when the user clicks one of the movie cast tabs.



This feature will allow users to choose their specific content in a tidy and organised manner to view as this is modern feature used within modern applications e.g. Web Browsers, Notepad++ etc.

This feature has prevented the creation of separate pages for each specific movie as the user can see all of the specific content on one organised webpage within a jQuery feature.

Below will be the annotated code listing for this feature.

HTML:

```
<!-- start of the across tabs menu element -->
    <div id="casttabs">

    <ul>
        <li><a href="#tab1"><font face="Teko">Avengers</font></a></li>
        <li><a href="#tab2"><font face="Teko">Avengers: Age Of
        Ultron</font></a></li>
        <li><a href="#tab3"><font face="Teko">Avengers: Infinity
        War</font></a></li>
        <li><a href="#tab4"><font face="Teko">Avengers: Endgame
        </font></a></li>
    </ul>
    <div id="tab1">
        <dl> <center> <font face="Teko"> <font size="5">
            <dt> Robert Downey Jr. as Iron Man / Tony Stark </dt>
            <dt> Chris Evans as Steve Rogers / Captain America </dt>
            <dt> Mark Ruffalo as Bruce Banner / The Hulk </dt>
            <dt> Chris Hemsworth as Thor </dt>
            <dt> Scarlett Johansson as Natasha Romanoff / Black Widow </dt>
            <dt> Jeremy Renner as Clint Barton / Hawkeye </dt>
            <dt> Paul Bettany as Jarvis (Voice)
            <dt> Tom Hiddleston as Loki </dt>
            <dt> Samuel L. Jackson as Nick Fury </dt>
            <dt> Gwyneth Paltrow as Pepper Potts </dt>
            <dt> Stan Lee as Stan Lee </dt>
            </center> </font> </font></dl>
    </div>
```

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This feature uses jQuery and JavaScript language so the user has to configure the settings and add the content on the HTML code.

jQuery:

```
// this will be the across tabs menu element
$("#casttabs").tabs();
$("#casttabs a").css("background","red");
$(document).tooltip({
  show:{
    effect:"slideDown",
    delay:50
  },
  position:{
    my:"left center",
    at:"right"
  }
});
}
```

This feature uses jQuery and JavaScript language so the user has to configure the settings and functions on the JavaScript code.

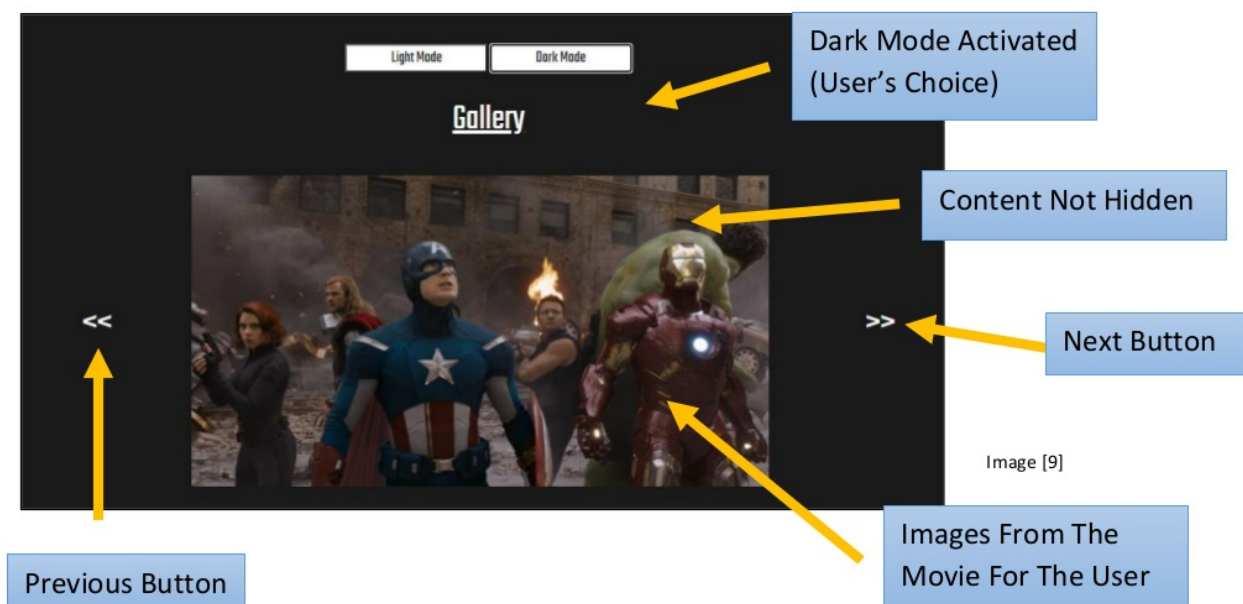
With this all of this code listing above, this feature has successfully been created and worked on Zaeem created website.

2.4. Gallery Page

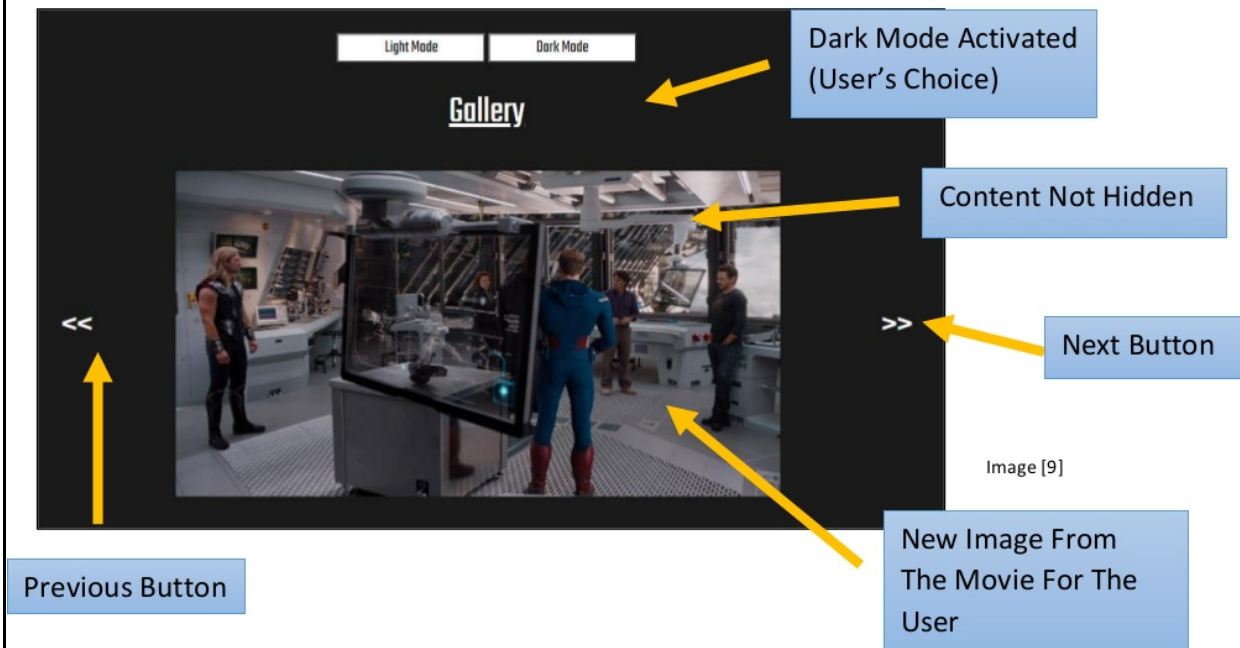
Image Slideshow

The first feature on the Gallery Page will be a jQuery feature. This feature is called Image Slideshow. This feature will allow the user to change the interface display on the website when they change each image. This feature will change the images from one another when the user selects the next or previous buttons.

In the image below, it shows the website interface when the user clicks Gallery Page.



In the image below, it shows the website interface when the user clicks one of the slideshow buttons.



This feature will allow users to view The Avengers images in a tidy and organised manner to view as this is modern feature used within modern technology e.g. Smartphones, Tablets, Smartwatches etc. This is also looking creative with the mini animation it shows when clicking the buttons.

This feature has prevented to create separate pages for each specific image as the user can see all of the images on one organised webpage within a jQuery feature.

Below will be the annotated code listing for this feature.

HTML:

```
<script src="Assets/jquery-1.4.2.min.js"></script>
```

This feature uses jQuery and JavaScript language so the user has to add the jQuery file on the HTML code.

```
<div class="row">
  <div class="col-12">
    <center>
      <h1> <ins> Gallery </ins> </h1>
    </center>
  </div>
</div>

<!-- this will load all of the images and configurations in the gallery page -->
  <center>
    <div id="container">
      <ul>
        <li></li>
        <li></li>
        <li></li>
        <li></li>
        <li></li>
```

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```
<li></li>

<li></li>

<li></li>

<li></li>

<li></li>

<li></li>

<li></li>

</ul>

<span class="button prevButton"><h1><<</h1></span>

<span class="button nextButton"><h1>>></h1></span>

</center>

</div>
```

This feature uses jQuery and JavaScript language so the user has to configure the settings, add the images and buttons on the HTML code.

jQuery:

```
<script>
$(window).load(function(){
    var pages = $('#container li'), current=0;
    var currentPage,nextPage;
    var handler=function(){
        $('#container .button').unbind('click');
        currentPage= pages.eq(current);
        if($(this).hasClass('prevButton'))
        {
            if (current <= 0)
                current=pages.length-1;
            else
                current=current-1;
            nextPage = pages.eq(current);
            nextPage.css("marginLeft",-751);
            nextPage.show();
            nextPage.animate({ marginLeft: 0 }, 800,function(){
                currentPage.hide();
            });
            currentPage.animate({ marginLeft: 751 },
800,function(){
                $('#container .button').bind('click',handler);
            });
        }
        else
```

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```
        {
            if (current >= pages.length-1)
                current=0;
            else
                current=current+1;
            nextPage = pages.eq(current);
            nextPage.css("marginLeft",751);
            nextPage.show();
            nextPage.animate({ marginLeft: 0 }, 800,function(){
            });
            currentPage.animate({ marginLeft: -751 },
800,function(){
                currentPage.hide();
                $('#container .button').bind('click',handler);
            });
        }
    }
    $('#container .button').click(handler);
});
</script>
<script>
var canvas, stage, exportRoot;
function init() {
    canvas = document.getElementById("canvas");
    images = images || {};
    var loader = new createjs.LoadQueue(false);
    loader.addEventListener("fileload", handleFileLoad);
```

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```
        loader.addEventListener("complete", handleComplete);
        loader.loadManifest(lib.properties.manifest);
    }
    function handleFileLoad(evt) {
        if (evt.item.type == "image") { images[evt.item.id] = evt.result; }
    }
    function handleComplete(evt) {
        exportRoot = new lib.FlashExample();
        stage = new createjs.Stage(canvas);
        stage.addChild(exportRoot);
        stage.update();
        createjs.Ticker.setFPS(lib.properties.fps);
        createjs.Ticker.addEventListener("tick", stage);
    }
</script>
```

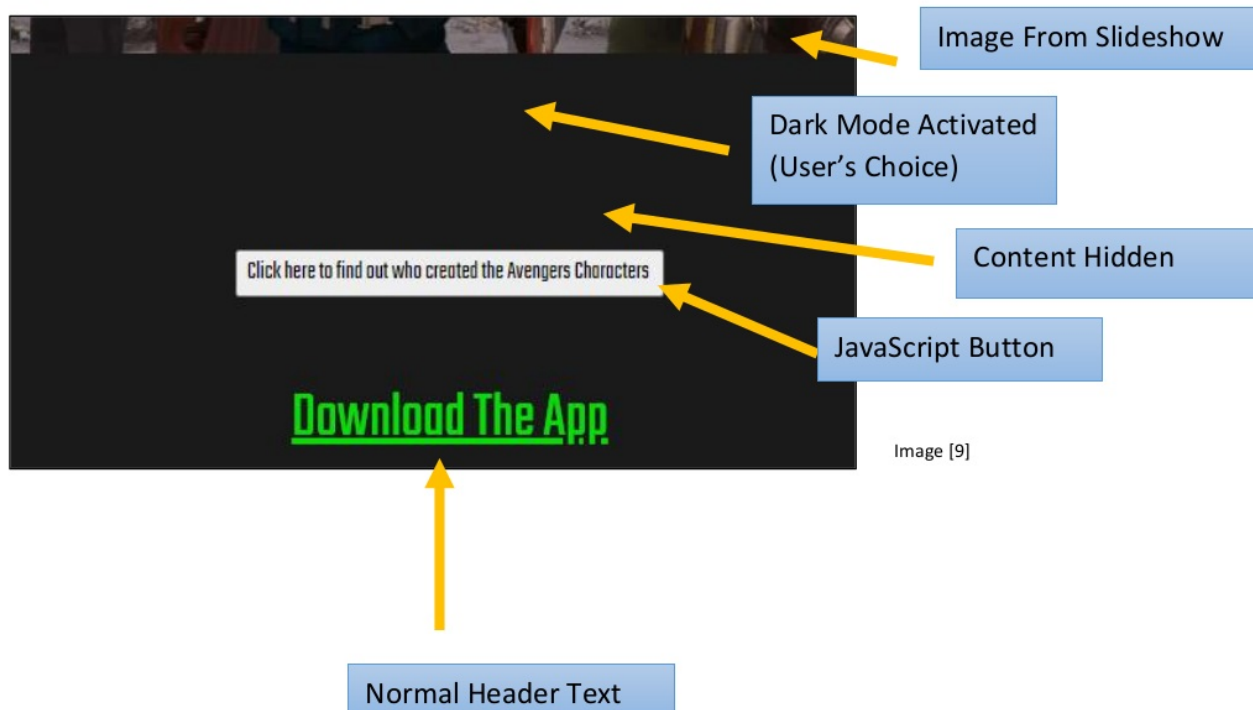
This feature uses jQuery and JavaScript language so the user has to configure the settings and functions on the HTML code.

With this all of this code listing above, this feature has successfully been created and worked on the created website.

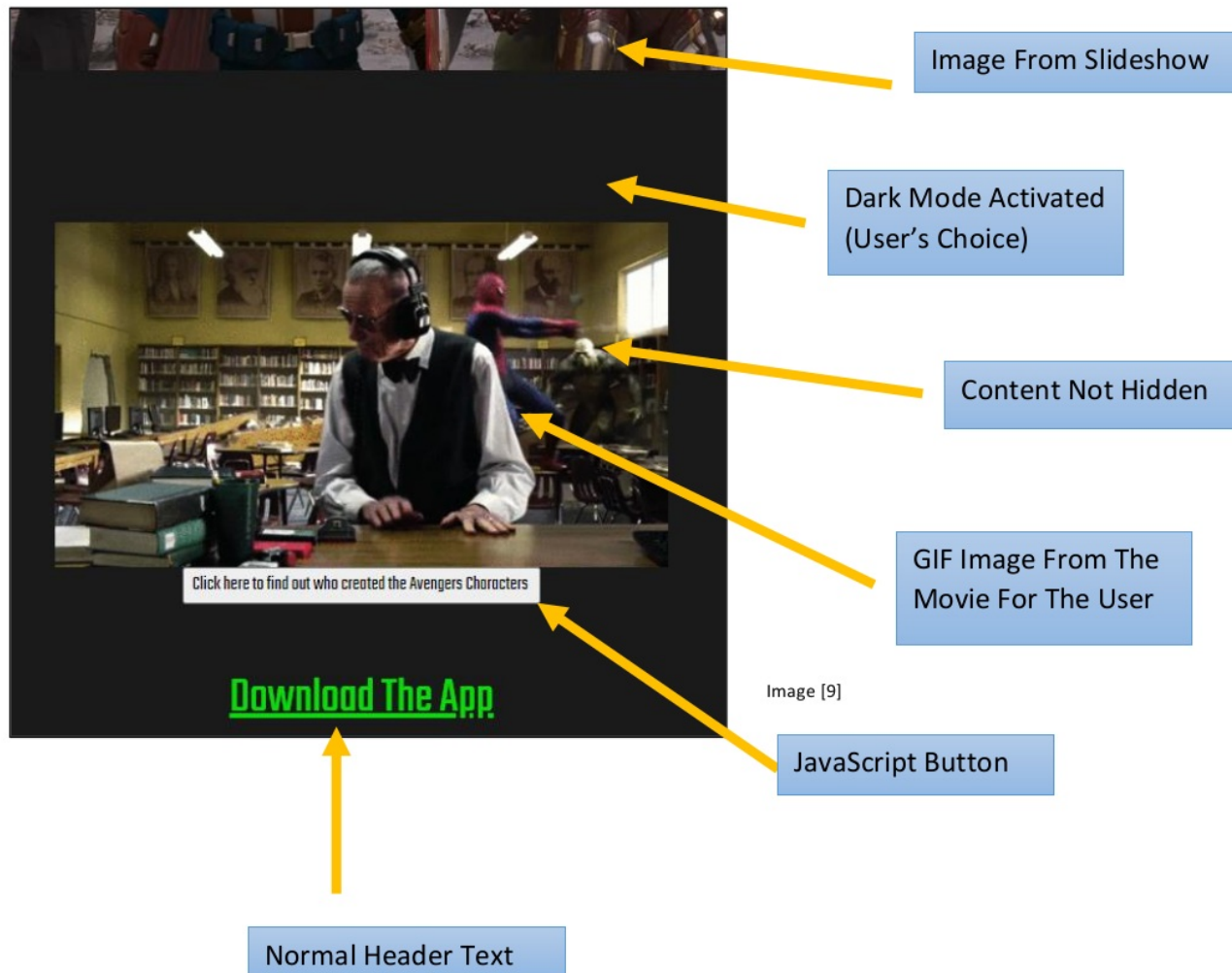
Image Reveal

The second feature on the Gallery Page will be a JavaScript feature. This feature is called Image Reveal. This feature will allow the user to change the interface display on the website when they click a specific button. This feature will load the image when the user clicks the specific button.

In the image below, it shows the website interface when the user clicks Gallery Page.



In the image below, it shows the website interface when the user clicks the JavaScript button.



This feature will allow users to view a special GIF image in a tidy and interactive manner to view as this is modern feature used within modern technology e.g. Smartphones, Tablets, Smartwatches etc. This is also looking creative with the mini animation it shows when clicking the button.

This feature has prevented to create a separate page for the specific GIF image as the user can see the interactive GIF image on one organised webpage within a JavaScript feature.

Below will be the annotated code listing for this feature.

HTML:

```
<!-- this will load the gif image, button and configuration in the gallery page -
start -->



<input type="button" value="Click here to find out who created the Avengers
Characters " onClick="javascript:revealpic()">

</center>

<!-- this will load the gif image, button and configuration in the gallery page -
end -->
```

This feature uses JavaScript language so the user has to configure the setting, add the GIF image and button on the HTML code.

JavaScript:

```
<!-- this will be the javascript configurations - start -->

<script type="text/javascript">

function revealpic()
{
tp=document.getElementById("stan");
tp.style.display='block'
}

</script>

<!-- this will be the javascript configurations - end -->
```

This feature uses JavaScript language so the user has to configure the setting and the function on the HTML code.

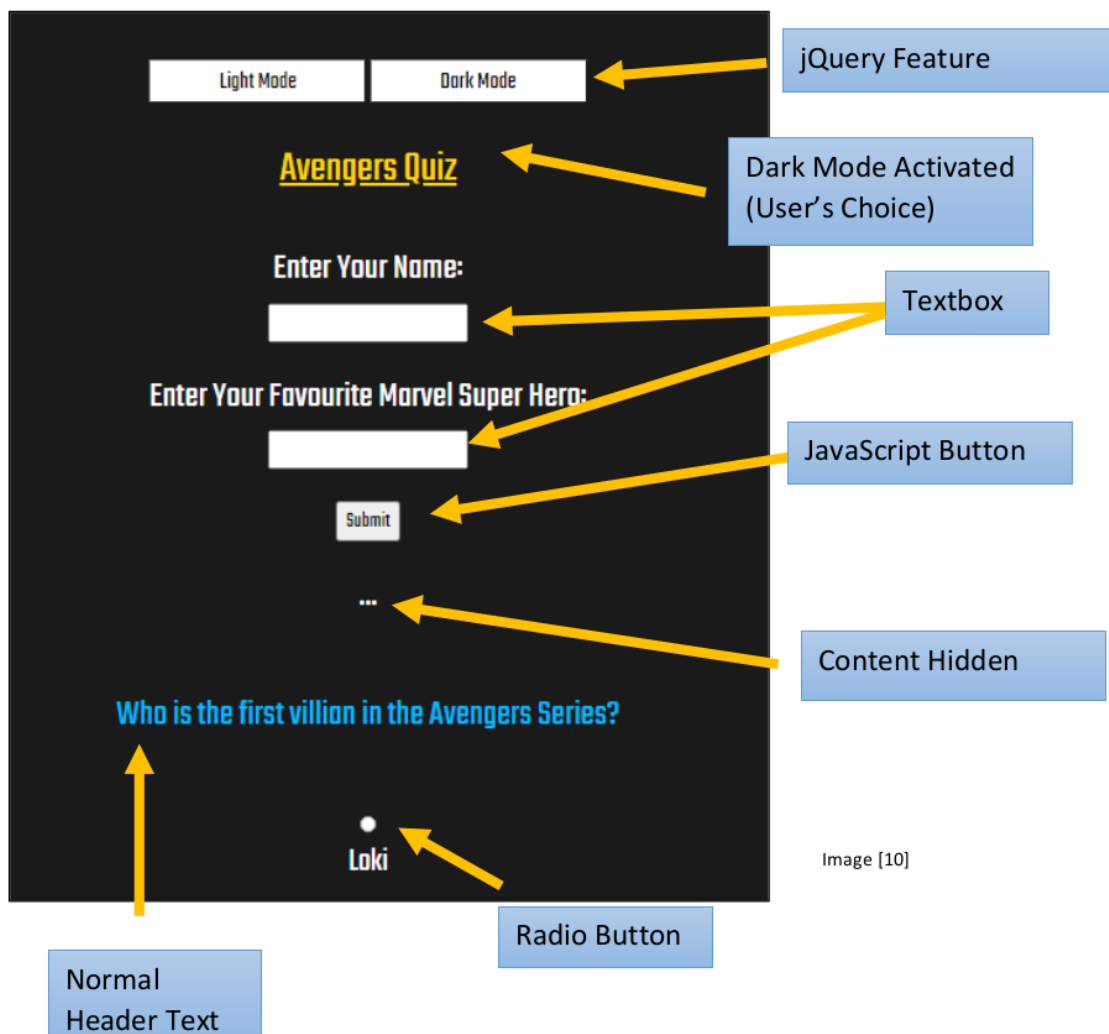
With this all of this code listing above, this feature has successfully been created and worked on the created website.

2.5. Quiz Page

Greeting

The first feature on the Quiz Page will be a JavaScript feature. This feature is called Greeting. This feature will allow the user to interact and type in the empty textboxes on the webpage and clicking a submit button.

In the image below, it shows the website interface when the user clicks Quiz Page.



In the image below, it shows the website interface when the user types in the textboxes and clicks the submit button.



Normal
Header Text

This feature will allow users to enter data in an interactive manner as this is modern feature used within modern technology e.g. Smartphones, Tablets, Smartwatches etc. This is also looking creative as this feature is on the same page as the quiz which makes it look more professional to the users and it looks like the webpage is communicating to the users.

Below will be the annotated code listing for this feature.

HTML:

```
<!-- this will be name entering settings -->  
<center>  
<form action="javascript:greeting()">  
<h3> Enter Your Name: </h3> <input type="text" id="username">  
<br><br>  
<h3> Enter Your Favourite Marvel Super Hero: </h3> <input type="text"  
id="hero">  
<br><br>  
<input type="submit" value="Submit">  
<br> <br>  
</form>  
<div id="message"><h3> ... </h3></div>  
<br><br>  
</center>
```

This feature uses JavaScript language so the user has to configure the setting, add the textboxes and button on the HTML code.

JavaScript:

```
<!-- this is the javascript for entering the user name -->  
<script type="text/javascript">  
function greeting()  
{  
  thename=document.getElementById("username").value // drill into the input  
  for the value  
  thehero=document.getElementById("hero").value // drill into the input for the  
  value  
  themessage=document.getElementById("message");  
  themessage.innerHTML="<h3>Welcome " + thename + ", Good Luck In The  
  Quiz <br> <br> P.S. " + thehero + " Is A Good Choice</h3>" // this will show  
  the final outcome on page  
}  
</script>
```

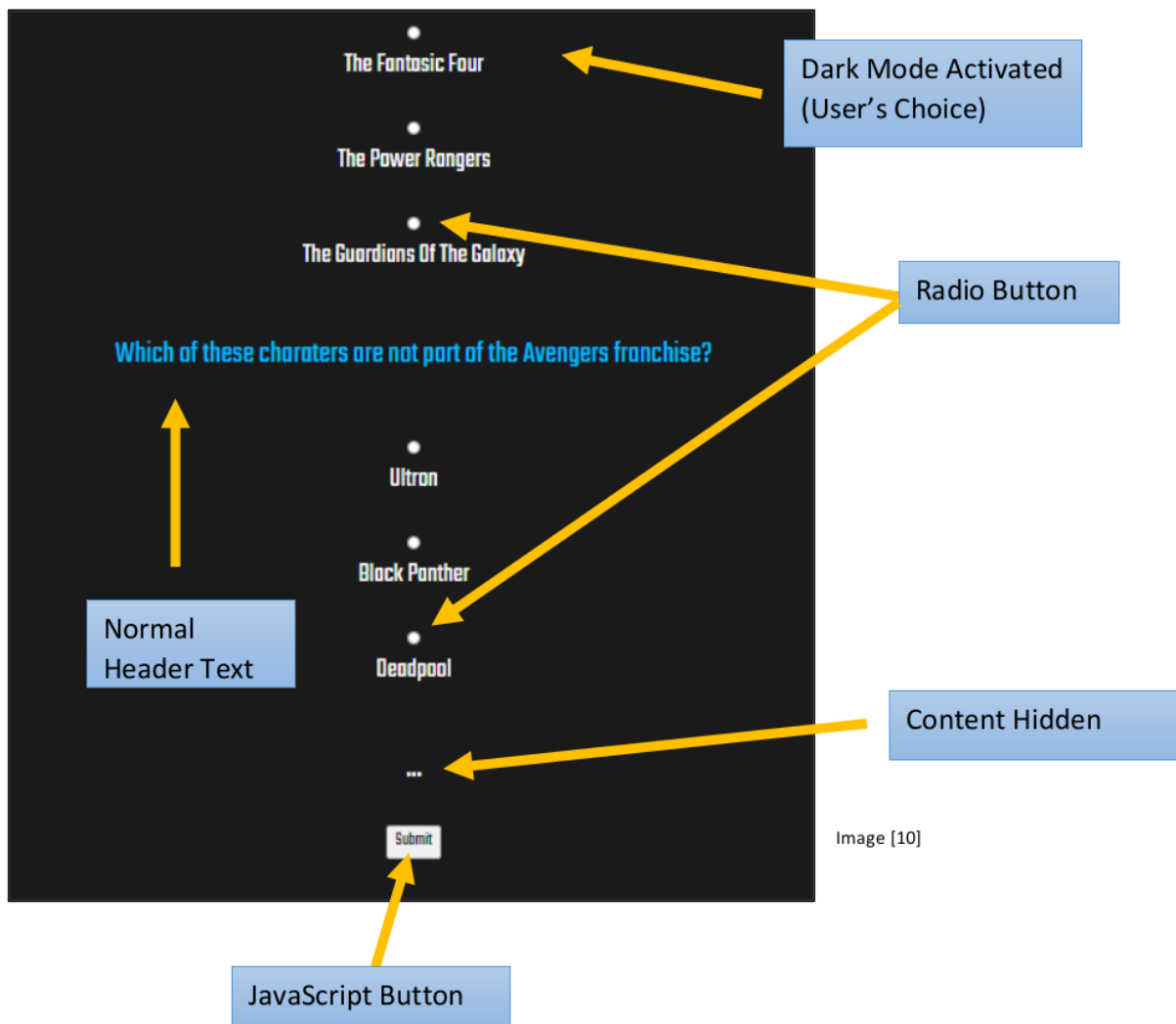
This feature uses JavaScript language so the user has to configure the setting and the function on the HTML code.

With this all of this code listing above, this feature has successfully been created and worked on the created website.

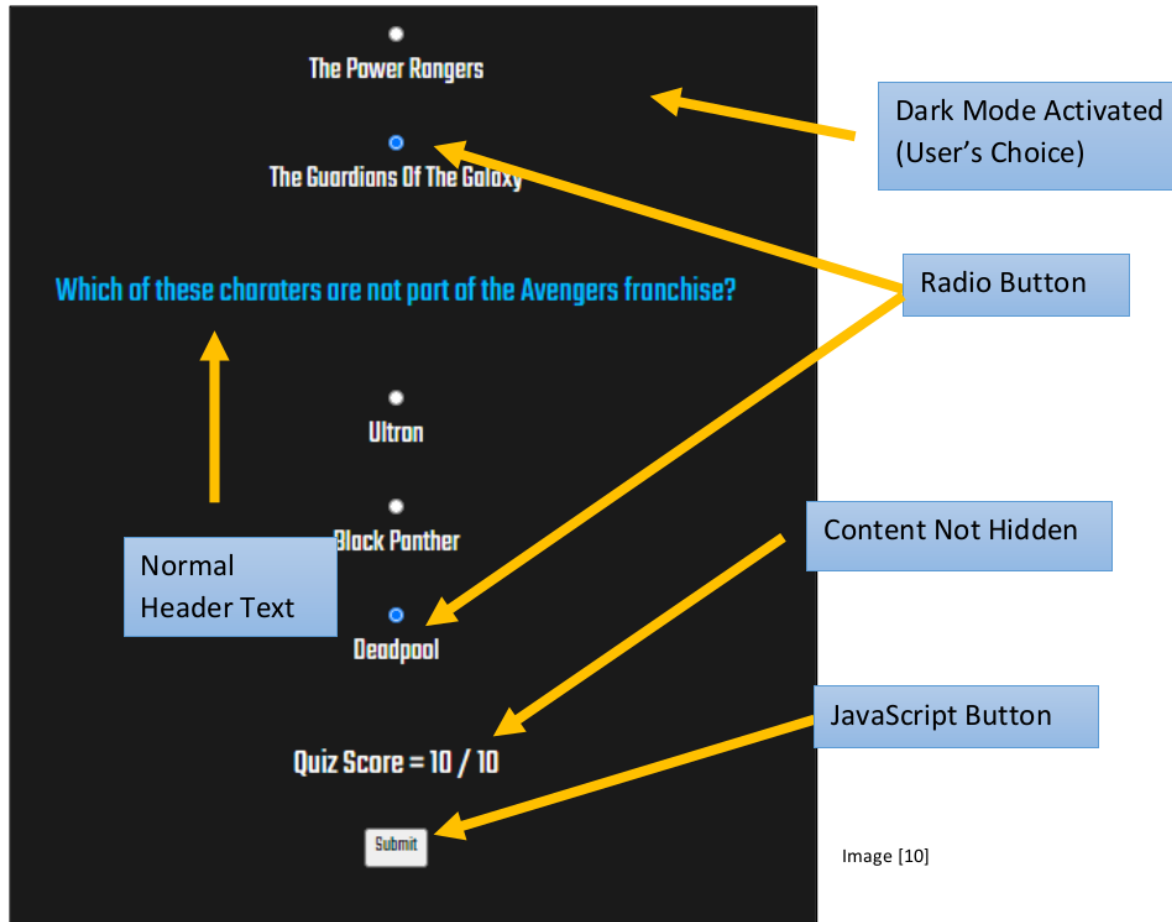
Radio Button Quiz

The second feature on the Quiz Page will be a JavaScript feature. This feature is called Radio Button Quiz. This feature will allow the user to interact and answer ten questions on the webpage by clicking a specific radio button on each question.

In the image below, it shows the website interface when the user scrolls down on the Quiz Page.



In the image below, it shows the website interface when the user checks the radio buttons and clicks the submit button.



This feature will allow users to select a specific set of data in an interactive manner as this is modern feature used within modern technology e.g. Smartphones, Tablets, Smartwatches etc. This is also looking creative as this feature makes it look more professional to the users and it looks like the webpage is communicating to the users by showing how answers they got correct.

This feature has prevented to create a separate pages for each question as the user can see all of the questions and answers on one organised webpage within a JavaScript feature.

Below will be the annotated code listing for this feature.

HTML:

```
<!-- this will be the quiz settings -->

<center>

<form action="javascript:checkquiz()">

<h3> <font color="#00bfff"> Who is the first villian in the Avengers Series?
</h3> </font>

<br><br>

<input type="radio" name="q1" id="r1"> <h4>Loki</h4><br> <!-- correct
answer -->

<input type="radio" name="q1" id="wrong"> <h4>Thanos</h4><br>

<input type="radio" name="q1" id="wrong"> <h4>Ultron </h4><br><br>

<h3> <font color="#00bfff"> Who plays Iron Man? </font> </h3>

<br><br>

<input type="radio" name="q2" id="wrong"> <h4>Robert Downey</h4><br>

<input type="radio" name="q2" id="r2"> <h4>Robert Downey JR</h4><br> <!--
correct answer -->

<input type="radio" name="q2" id="wrong"> <h4>Chris Evans</h4><br><br>

<h3> <font color="#00bfff"> How many Infinity Stones are there? </font>
</h3>

<br><br>

<input type="radio" name="q3" id="wrong"> <h4>5</h4><br>

<input type="radio" name="q3" id="r3"> <h4>6</h4><br> <!-- correct answer -
->

<input type="radio" name="q3" id="wrong"> <h4>7</h4><br><br>

<h3> <font color="#00bfff"> What is Captain America real name? </font>
</h3>

<br><br>

<input type="radio" name="q4" id="wrong"> <h4>Howard Stark</h4><br>
```

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```
<input type="radio" name="q4" id="wrong"> <h4>Chris Evans</h4><br>
<input type="radio" name="q4" id="r4"> <h4>Steve Rogers</h4><br><br> <!--
correct answer -->

<h3> <font color="#00bfff"> Who is the leader of S.H.I.E.L.D? </font> </h3>
<br><br>

<input type="radio" name="q5" id="wrong"> <h4>Tony Stark</h4><br>
<input type="radio" name="q5" id="wrong"> <h4>Stan Lee</h4><br>
<input type="radio" name="q5" id="r5"> <h4>Nick Fury</h4><br><br> <!--
correct answer -->

<h3> <font color="#00bfff"> Which superhero does Bruce Banner transform
into? </font> </h3>
<br><br>

<input type="radio" name="q6" id="r6"> <h4>The Hulk</h4><br> <!-- correct
answer -->

<input type="radio" name="q6" id="wrong"> <h4>Thor</h4><br>
<input type="radio" name="q6" id="wrong"> <h4>Iron Man</h4><br><br>

<h3> <font color="#00bfff"> What is Clint Barton's superhero name? </font>
</h3>
<br><br>

<input type="radio" name="q7" id="wrong"> <h4>Spiderman</h4><br>
<input type="radio" name="q7" id="r7"> <h4>Hawkeye</h4><br> <!-- correct
answer -->

<input type="radio" name="q7" id="wrong"> <h4>Falcon</h4><br><br>

<h3> <font color="#00bfff"> In Avengers: Infinity War, what is the name of the
villain who's on a mission to collect the infinity stones? </h3> </font>
<br><br>

<input type="radio" name="q8" id="wrong"> <h4>Loki</h4><br>
<input type="radio" name="q8" id="r8"> <h4>Thanos</h4><br> <!-- correct
answer -->
```

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```
<input type="radio" name="q8" id="wrong"> <h4>Ultron</h4><br><br>
<h3> <font color="#00bfff"> Which other superhero team do the Avengers join
with to try to prevent this? </h3> </font>

<br><br>
<input type="radio" name="q9" id="wrong"> <h4>The Fantastic Four</h4><br>
<input type="radio" name="q9" id="wrong"> <h4>The Power
Rangers</h4><br>
<input type="radio" name="q9" id="r9"> <h4>The Guardians Of The
Galaxy</h4><br><br> <!-- correct answer -->

<h3> <font color="#00bfff"> Which of these charaters are not part of the
Avengers franchise? </h3> </font>

<br><br>
<input type="radio" name="q10" id="wrong"> <h4>Ultron</h4><br>
<input type="radio" name="q10" id="wrong"> <h4>Black Panther</h4><br>
<input type="radio" name="q10" id="r10"> <h4>Deadpool</h4><br><br> <!--
correct answer -->

<div id="message1"><h3>...</h3></div>

<br>
<input type="submit" value="Submit">

</form>

</center>
```

This feature uses JavaScript language so the user has to configure the settings, add the questions and the radio buttons on the HTML code.

JavaScript:

```
<!-- this is the javascript for the quiz -->
    <script type="text/javascript">

function checkquiz()
// this is a array for the quiz questions
{
answer=document.getElementById("r1");
answer2=document.getElementById("r2");
answer3=document.getElementById("r3");
answer4=document.getElementById("r4");
answer5=document.getElementById("r5");
answer6=document.getElementById("r6");
answer7=document.getElementById("r7");
answer8=document.getElementById("r8");
answer9=document.getElementById("r9");
answer10=document.getElementById("r10");
themessage1=document.getElementById("message1");
score=0;
    if(answer.checked)//question 1
    {
        score++;
    }
    if(answer2.checked)//question 2
    {
        score++;
    }
}
```

Zaeem

```
if(answer3.checked)//question 3
{
score++;
}
if(answer4.checked)//question 4
{
score++;
}
if(answer5.checked)//question 5
{
score++;
}
if(answer6.checked)//question 6
{
score++;
}
if(answer7.checked)//question 7
{
score++;
}
if(answer8.checked)//question 8
{
score++;
}
if(answer9.checked)//question 9
{
```

Zaeem

```
        score++;  
    }  
    if(answer10.checked)//question 10  
    {  
        score++;  
    }  
    themessage1.innerHTML="<h3> Quiz Score = " + score + " / 10 </h3>" //  
    this will show final result  
}  
</script>
```

This feature uses JavaScript language so the user has to configure the settings, the array and the function on the HTML code.

With this all of this code listing above, this feature has successfully been created and worked on the created website.

3. Conclusion

In conclusion, this assignment has showed the creation of basic and interactive websites by using the languages of HTML, CSS, JavaScript and jQuery as required in the assignment brief. This has also showed that that the ability to create multiple JavaScript and jQuery features has been gained. which has improved skills of creativity and adaptability towards a website development environment. The most important element of this website would be the interactive features as this is the major element that remains relevant from the beginning of the design to the final product.

4. References

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(FINAL) Zaeem Assignment 1 - Gaynor

GRADEMARK REPORT

FINAL GRADE

67 / 100

GENERAL COMMENTS

Instructor

WEBSITE

Range of Javascript code demonstrated Some nice work with JQueryUI and a good amount of jQuery/JqueryUI demonstrated. Quiz is OK - it would be nice if you told the user which answers were right and which were wrong rather than only giving them a score at the end (then they can learn from their mistakes!) A good approach to the quiz - fairly efficient code. Image reveal/name entry in raw JS is OK, but a bit on the simplistic side. Some good content overall, but you could have done more to show your Raw JS skills 38/60 -

Overall integration of website - Layout is OK - the picture at the top is a bit too big - it's a bit of a pain to have to scroll down constantly to get to the content of the page. Make the top banner a bit smaller to help the user in this. Nav bar at the top could be in a brighter font, it's fading into the background 6.5 / 10 -

REPORT

Analysis of technical development 10/15 - You have clearly shown what you did, you need a bit more technical analysis - are there any weaknesses in your code, do you consider your code to be efficient and why did you take this technical approach?

Annotated code listing - Clearly shown - some parts are a bit lacking in detail, but quite clear overall 12/ 15 -

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