

Web Design and Development 4COSC011W

Report

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URL: [Link\(s\) to WebSite
https://w1810015.users.ecs.westminster.ac.uk/](https://w1810015.users.ecs.westminster.ac.uk/)

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1. Introduction

Web design refers to the design of websites that are displayed on the internet. It usually refers to the user experience aspects of website development. Web design used to be focused on designing websites for desktop browsers

We chose to create Entertainment website as our coursework and We made a movie webpage call "CineMagic". This webpage enables users to watch movies online and face for quizzes & win prizes. Also there is an online store which users can buy some cinema related products.

We allocate following tasks to our group members to complete webpage

•	Presentation Page	-	Sewwandi Premarathne	(Student 1)
•	Main Page	-	Ravindu Liyanaarachchi	(Student 2)
•	Query Form	-	Ravindu Liyanaarachchi	(Student 2)
•	Buy products	-	Sewwandi Premarathne	(Student 1)
•	Diagram (SVG)	-	Dasith Gamage	(Student 4)
•	Quiz	-	Madusha Thumbowita	(Student 3)
•	Thumbnail images	-	Dasith Gamage	(Student 4)
•	Student details	-	Madusha Thumbowita	(Student 3)

In this course work we utilise a text editor to create several linked HTML documents. Also gained knowledge how to identify and apply how to separate the structure, behaviour and presentation of web documents.

2. Technical Discussion

As we chose entertainment as page topic, we decided to build a movie page. It include new trending movies and their details mainly. As course work specification we included a quiz regarding to movies and also a store to sell movie merchandise.

- **Main page**

As we discussed we needed to design the page in dark colours and needed to be modern eye catchy design. As a result we chose black, dark grey and yellow as our colour theme.

On the top of the main page managed to include a slideshow with some trending movie images.



I had a challenge in this slideshow, when changing images in a time interval. Then managed to change images by javascript code. Added a setInterval function in this process.

```
var counter = 0;
var images = ["1.jpg", "2.jpg", "3.jpg", "4.png", "5.jpg"];
setInterval(function() {

    document.getElementById("mainimg").src =
images[counter];
    counter++;
    if(counter == 5){
        counter = 0;
    }

}, 4000);
```

In this code sated a 4 seconds time interval to this function and introduced a counter variable to access elements inn Array called images. In side this function, used DOM to access main image ID to change its image source. After image changing add 1 to counter and when counter = 5 it will automatically become 0 again by if condition.

On the slide show there is a big slogan called "Explore the cinema world" when the mouse pointer slides on to the slogan it scales and background is getting darker. Used a mouse over function in this task.

```
document.getElementById("slogan").onmouseover = function(){

document.getElementById("blkbox1").style.backgroundColor="rgb(0,0,0,0.6)";
document.getElementById("slogan").style.fontSize="5.1em";
}
document.getElementById("slogan").onmouseout = function(){

document.getElementById("blkbox1").style.backgroundColor="rgb(0,0,0,0)";
document.getElementById("slogan").style.fontSize="5em";
}
```

And added some anchors to navigate in all over the page. After the slideshow, Added 3 panels to represent quiz and the store. Also added a trending movie image for more attraction.

At the bottom of the page there is a footer with a button linked to page editor page.

- **External css and navigation bar.**

I constructed an external style sheet to style major theme of the web page and navigation bar. Introduced an interactive navigation bar. As the function it hides when page scroll downs and visible when scroll up.

```
// scroll function to appear top button
function scrollFunction() {
    if (document.body.scrollTop > 20 ||
document.documentElement.scrollTop > 20) {
        document.getElementById("topbtn").style.display = "block";
    } else {
        document.getElementById("topbtn").style.display = "none";
    }
}

// scroll function to hidding navigation bar
var prevpos = window.pageYOffset;
window.onscroll = function() {
    scrollFunction();
    var currpos = window.pageYOffset;
    if (prevpos > currpos) {
        document.getElementById("navbar").style.top = "0";
    } else {
        document.getElementById("navbar").style.top = "-80px";
    }
    prevpos = currpos;
}
```

In this code also includes a button to navigate to top of the page. This button appears when scrolling down. In this case I used scrollFunctions.

- **Query Form**

Implemented a Contact us Page as the query form. Made a form as usual and introduced a view query button to display the information gained from the form as a message. In this case, made a separate division tag that covers entire form. And display information with labels using DOM functions. Its visibility is hidden in default and when clicked view query it becomes visible.

```
// if filled all the fields get details to a message panel
if ( form.name.value.length > 0 && form.email.value.length >
0 && form.msg.value.length > 0){
    var msgbx = document.getElementById("msgbx");
    var editbtn = document.getElementById("msgeditbtn");
    var sendbtn = document.getElementById("msgsendbtn");
    msgbx.style.display = "block";
    document.getElementById('msgsubjectdisp').innerHTML =
document.getElementById('subject').value;
    document.getElementById('msgnamedisp').innerHTML =
document.getElementById('name').value;
    document.getElementById('msgemaildisp').innerHTML =
document.getElementById('email').value;
    document.getElementById('msgmsgdisp').innerHTML =
document.getElementById('msg').value;
```

In this message box there are two buttons to edit the form and to submit the form. When submitted the form, information send via a mail.

```
<form action="mailto:ravinduliyanaarachchi@gmail.com" method="POST"
enctype="text/plain" name="queryform">
```

3. Janet

References

https://www.w3schools.com/howto/howto_js_topnav.asp [Accessed by 18th March 2021].
<https://blog.hubspot.com/marketing/html-form-email> [Accessed by 20th March 2021].
https://www.w3schools.com/howto/howto_js_scroll_to_top.asp [Accessed by 21st March 2021].

Appendices

Appendix A: Code

- **home.html**

```
<!doctype html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <style>
      /*slideshow panel*/
      .slogan{
        color:white;
        font-family: arial;
        font-size:5em;
        top:250px;
        position:absolute;
        text-align:center;
        width:100%;
        line-height: 0.8em;
        text-decoration: none;
        z-index:2;
        transition:0.5s;
      }
      #subtitle{
        font-size:1em;
        color:white;
        font-family:arial;
        position:absolute;
        top:370px;
        text-align:center;
        width:100%;
      }
      .blkbox1{
```

```
background-color:rgb(0,0,0,0);
height:750px;
top:0px;
position:absolute;
z-index:2;
width:100%;
transition:0.5s;
}
.slideimg{
z-index:1;
position:relative;
background-color:black;
}
.anchors{
font-family:bebas neue;
font-weight:bold;
position:absolute;
font-size:2em;
top:450px;
z-index:9;
width:100%;
text-align:center;
}
.anchors a{
color:rgb(255,240,0);
text-decoration:none;
margin:5px;
}
/*Quiz panel*/
.quizbox{
height:350px;
background-color:rgb(0,0,0,0.8);
}
.quizlogan{
color:white;
font-family: arial;
font-size:4em;
text-decoration: none;
font-weight:bold;
position:absolute;
left:140px;
padding-top:130px;
}
.quizsub{
color:rgb(255,240,0);
font-family: arial;
font-size:1.5em;
position:absolute;
left:150px;
padding-top:0px;
line-height: 0.9em;
text-align:center;
top:930px;
}
#iphone{
position:absolute;
Right:230px;
padding-top:40px;
}
/*shop panel*/
#shopbox{
margin-top:10px;
```

```
height:350px;
background-color:black;
}
.shopslogan{
color:white;
font-family: arial;
font-size:4em;
text-decoration: none;
font-weight:bold;
position:absolute;
right:190px;
padding-top:130px;
}
.shopsub{
color:rgb(255,240,0);
font-family: arial;
font-size:1.5em;
position:absolute;
right:270px;
padding-top:0px;
line-height: 0.9em;
text-align:center;
top:1655px;
}
.merch{
position:absolute;
left:260px;
padding-top:40px;
}
/*Trending panel*/
#trendingbox{
margin-top:10px;
height:350px;
background-color:black;
}
#trending{
color:white;
font-family: arial;
font-size:2em;
text-decoration: none;
font-weight:bold;
position:absolute;
width:100%;
padding-top:5px;
text-align:center;
}
.trending{
padding-top:35px;
left:-20px;
position:absolute;
}
/*top scroll button*/
#topbtn{
position: fixed;
bottom: 20px;
right: 30px;
z-index: 99;
border: none;
outline: none;
background-color: rgb(255,240,0);
color: black;
cursor: pointer;
```

```

padding: 15px;
font-weight:bold;
display : none;
}
</style>
<link rel="stylesheet" href="main.css">
<title>Cinemagic Home</title>
<link rel="shortcut icon" href="logo2.png">
</head>
<body>
<div>
<!-- navigation bar -->
<div class="navibar" id="navbar">
<div class="navicontent">
<a href="home.html">HOME</a>
<a href="movies.html">MOVIES</a>
<a href="quiz.html">QUIZ</a>
<a href="contactus.html">CONTACT US</a>
<a href="aboutus.html">ABOUT US</a>
<div class="shop">
<a href="store.html">STORE</a>
</div>
</div>
<div>
<a href="home.html"></a>
</div>
</div>
<!-- slide show and slogan -->
<div id="slideshow">
<div class="slideimg">

</div>
<div class="blkbox1" id="blkbox1"></div>
<a class= "slogan" href="movies.html"
id="slogan">EXPLORE<br>THE CINEMA WORLD</a>
<p class= "slogan" id="subtitle">Cinemagic is the premiere
destination for all Movie lovers.Find any movie in any category.</p>
<div class="anchors"><a href="#quizlogan">ANSWER AND WIN</a><a
style="color:white">|</a><a href="#trendingbox">TRENDING</a><a
style="color:white">|</a><a href="#shopbox">FIND MERCH</a><a
style="color:white">|</a><a style="color:white" href="sitemap.html">SITE
MAP</a></div>
</div>
<!-- quiz panel -->
<div id="quizbox" class="quizbox">
<a class= "quizlogan" href="quiz.html" id="quizlogan">Answer &
Win.</a>
<p class= "quizsub" id="quizsub">Answer quiz and Stand a chance
to <br>win a brand new iphone 12</p>
<div></div>
</div>
<!-- trending panel -->
<div id="trendingbox" class="trendingbox">
<div></div>
<a href="" id="trending">Trending</a>
</div>
<!-- shop panel -->
<div id="shopbox" class="shopbox">

```



```

        <a class= "shopslogan" href="store.html" id="shopslogan">Grab
our Merch</a>
        <p class= "shopsub" id="shopsub">Find exclusive limited edition
<br>collectibles and merchandise</p>
        <div></div>
        </div>
    </div>
    <!-- top scroll button -->
    <button onclick="topFunction()" id="topbtn" title="Go to
top">Top</button>
    <!-- footer -->
    <footer>
        <button class="button editor"
onclick="window.location.href='ravindu.html';" >PAGE EDITOR</button>
    </footer>
    <script>
        // slogan mouse over function with background darkening
        document.getElementById("slogan").onmouseover = function() {

document.getElementById("blkbox1").style.backgroundColor="rgb(0,0,0,0.6)";
        document.getElementById("slogan").style.fontSize="5.1em";
        }
        document.getElementById("slogan").onmouseout = function() {

document.getElementById("blkbox1").style.backgroundColor="rgb(0,0,0,0)";
        document.getElementById("slogan").style.fontSize="5em";
        }

        // scroll function to appear top button
        function scrollFunction() {
            if (document.body.scrollTop > 20 ||
document.documentElement.scrollTop > 20) {
                document.getElementById("topbtn").style.display = "block";
            } else {
                document.getElementById("topbtn").style.display = "none";
            }
        }
        // scroll function to hiding navigation bar
        var prevpos = window.pageYOffset;
        window.onscroll = function() {
            scrollFunction();
            var currpos = window.pageYOffset;
            if (prevpos > currpos) {
                document.getElementById("navbar").style.top = "0";
            } else {
                document.getElementById("navbar").style.top = "-80px";
            }
            prevpos = currpos;
        }
        // function to scroll page up when clicked top button
        function topFunction() {
            document.documentElement.scrollTop = 0;
        }
        var counter = 0;
        var images = ["1.jpg","2.jpg","3.jpg","4.png","5.jpg"];
        setInterval(function() {

            document.getElementById("mainimg").src =
images[counter];

            counter++;
            if(counter == 5){

```

```

        counter = 0;

    }

    }, 4000);
</script>
</body>
</html>

```

- **contactus.html**

```

<!doctype html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <style>
      /*background blackbox*/
      .marg{
        padding:340px;
        background-color: rgb(0,0,0, 0.8);
      }
      .marg:hover{
        background-color: rgb(0,0,0, 0.9);
        transition: all 0.5s;
      }
      .container {
        padding: 0px 300px;
        position: absolute;
        top:50px;
        left:20px;
        right:20px;
      }
      /*query form*/
      .querybox{
        position: absolute;
        top:50px;
        left:0px;
        right:0px;
        padding:320px;
        background-color: rgb(30,30,30, 0.6);
        z-index: 1;
      }
      .querybox:hover{
        background-color: rgb(30,30,30, 0.9);
        transition: all 0.5s;
      }
      input[type=text], select, textarea {
        font-family:helvetica;
        width: 100%;
        padding: 11px;
        border: none;
        background-color:rgb(0, 0, 0);
        box-sizing: border-box;
        margin-top: 6px;
        margin-bottom: 16px;
        outline:none;
        color:rgb(254, 231, 21);
      }
      .vqbtn{
        font-size:0.7em;

```

```

padding:10px;
}
/*message box*/
.msgbox{
position: absolute;
top:-50px;
left:0px;
right:0px;
padding:300px;
background-color: rgb(30,30,30);
z-index:2;
display:none;
}
.msgcontainer {
background-color: black;
padding: 50px;
width:650px;
position:absolute;
top:100px;
}
.label{
font-family:Trebuchet MS;
font-weight:bold;
color:rgb(100,100,100);
}
.edtbtn{
font-size:0.7em;
padding:10px;
float:right;
margin:5px;
}
.sndbtn{
font-size:0.7em;
padding:10px;
float:right;
margin:5px;
}
table{
width:100%;
text-align:left;
}
th{
vertical-align: top;
}
.txtclrwhite{
color:white;
}
</style>
<link rel="stylesheet" href="main.css">
<title>Cinemagic Contact Us</title>
<link rel="shortcut icon" href="logo2.png">
</head>
<body>
<div>
<!-- navigation bar -->
<div class="navibar" id="navbar">
<div class="navicontent">
<a href="home.html">HOME</a>
<a href="movies.html">MOVIES</a>
<a href="quiz.html">QUIZ</a>
<a href="contactus.html">CONTACT US</a>
<a href="aboutus.html">ABOUT US</a>

```

```

        <div class="shop">
            <a href="store.html">STORE</a>
        </div>
    </div>
    <div>
        <a href="home.html"></a>
    </div>
</div>
<!-- background blackbox -->
<div class="marg">
    <div class="querybox" id="querybox">
        <div class="container">
            <!-- query form -->
            <form action="mailto:ravinduliyanaarachchi@gmail.com"
method="POST" enctype="text/plain" name="queryform">
                <label for="subject" class="label">QUERY IS ABOUT</label>
                <select id="subject" name="subject">
                    <option value="Contents">Contents</option>
                    <option value="Merchandise">Merchandise</option>
                    <option value="Promotions">Promotions</option>
                    <option value="Other">Other</option>
                </select>
                <label for="fname" class="label">NAME</label>
                <input type="text" id="name" name="name"
placeholder="Your name..">
                <label for="lname" class="label">EMAIL</label>
                <input type="text" id="email" name="email"
placeholder="Your email..">
                <label for="msg" class="label">MESSAGE</label>
                <textarea id="msg" name="msg" placeholder="Write
something.." style="height:200px"></textarea>
                <input type="button" value="VIEW QUERY" class="button
vqbtn" onclick="check(form)" >
            <!-- message box -->
            <div class="msgbox" id="msgbx">
                <div class="msgcontainer">
                    <table>
                        <tr>
                            <th><label name="msgsubject" class="label"
>SUBJECT: </label></th>
                            <th><label name="msgsubjectdisp"
class="txtclrwhite" id="msgsubjectdisp" ></label></th>
                        </tr>
                        <tr>
                            <th><label name="msgname" class="label">NAME:
</label></th>
                            <th><label name="msgnamedisp"
class="txtclrwhite" id="msgnamedisp"></label></th>
                        </tr>
                        <tr>
                            <th><label name="msgemail"
class="label">EMAIL: </label></th>
                            <th><label name="msgemaildisp"
class="txtclrwhite" id="msgemaildisp"></label></th>
                        </tr>
                        <tr>
                            <th><label name="msgmsg"
class="label">MESSAGE: </label></th>
                            <th><label name="msgmsgdisp"
class="txtclrwhite" id="msgmsgdisp"></label></th>
                        </tr>
                    </table>

```

```

        </table>
        <br>
        <input type="submit" value="SEND" class="edtbtn
button" id="msgsendbtn" >
        <input type="button" value="EDIT" class="sndbtn
button" id="msgeditbtn" >
    </div>
</div>
</form>
</div>
</div>
<!-- footer -->
<footer>
    <button class="button editor"
onclick="window.location.href='ravindu.html';" >PAGE EDITOR</button>
</footer>
<script>
    // scroll function to hiding navigation bar
    var prevpos = window.pageYOffset;
    window.onscroll = function() {
        var currpos = window.pageYOffset;
        if (prevpos > currpos) {
            document.getElementById("navbar").style.top = "0";

        } else {
            document.getElementById("navbar").style.top = "-80px";
        }
        prevpos = currpos;
    }
    // function to check whether filled all required fields
    function check(form) {
        if ( form.name.value.length == 0 ) {

            alert( "You have not entered the name!" );
            return false;
        }
        if ( form.email.value.length == 0 ) {
            alert( "You have not entered a email!" );
            return false;
        }
        if ( form.msg.value.length == 0 ) {
            alert( "You have not entered a message!" );
            return false;
        }
        // if filled all the fields get details to a message panel
        if ( form.name.value.length > 0 && form.email.value.length >
0 && form.msg.value.length > 0 ){
            var msgbx = document.getElementById("msgbx");
            var editbtn = document.getElementById("msgeditbtn");
            var sendbtn = document.getElementById("msgsendbtn");
            msgbx.style.display = "block";
            document.getElementById('msgsubjectdisp').innerHTML =
document.getElementById('subject').value;
            document.getElementById('msgnamedisp').innerHTML =
document.getElementById('name').value;
            document.getElementById('msgemaildisp').innerHTML =
document.getElementById('email').value;
            document.getElementById('msgmsgdisp').innerHTML =
document.getElementById('msg').value;
            // edit query function
            editbtn.onclick = function() {

```

```

        msgbx.style.display = "none";
    }
    // submit and reset query function
    sendbtn.onclick = function() {
        document.queryform.submit();
        setTimeout(function() {
            document.queryform.reset();
            msgbx.style.display = "none";
        }, 2000);
    }
}
</script>
</body>
</html>

```

- **ravindu.html**

```

<!DOCTYPE html>
<html ln="en">
<head>
    <title>Page Editor - Ravindu Hasith</title>
<style>
    body {
        background-image: url('pgrav.jpg');
        background-attachment: fixed;
        background-size: cover;
    }
    .detailcontainer{
        background-color:rgb(255,255,255,0.7);
        margin: auto;
        width: 50%;
        padding: 10px;
    }
    .detailcontainer a{
        text-align:center
    }
</style>
</head>
<body>
<div class="detailcontainer">
    <h1 style="text-align: center;">RAVINDU HASITH LIYANAARACHCHI</h1>
    <h2 style="text-align: center;">Student 2</h2>
    <ul><li>Main Page (<a href="home.html">home.html</a>)</li><li>External
CSS (main.css)</li><li>Query Form (<a
href="home.html">contactus.html</a>)</li> </ul>
</div>
</body>
</html>

```

- **main.css**

```

/*navigation bar styles*/
.navibar {
width:100%;
position: fixed;
top: 0;
left: 0;
transition: all 0.5s;
background: rgb(27,26,26);

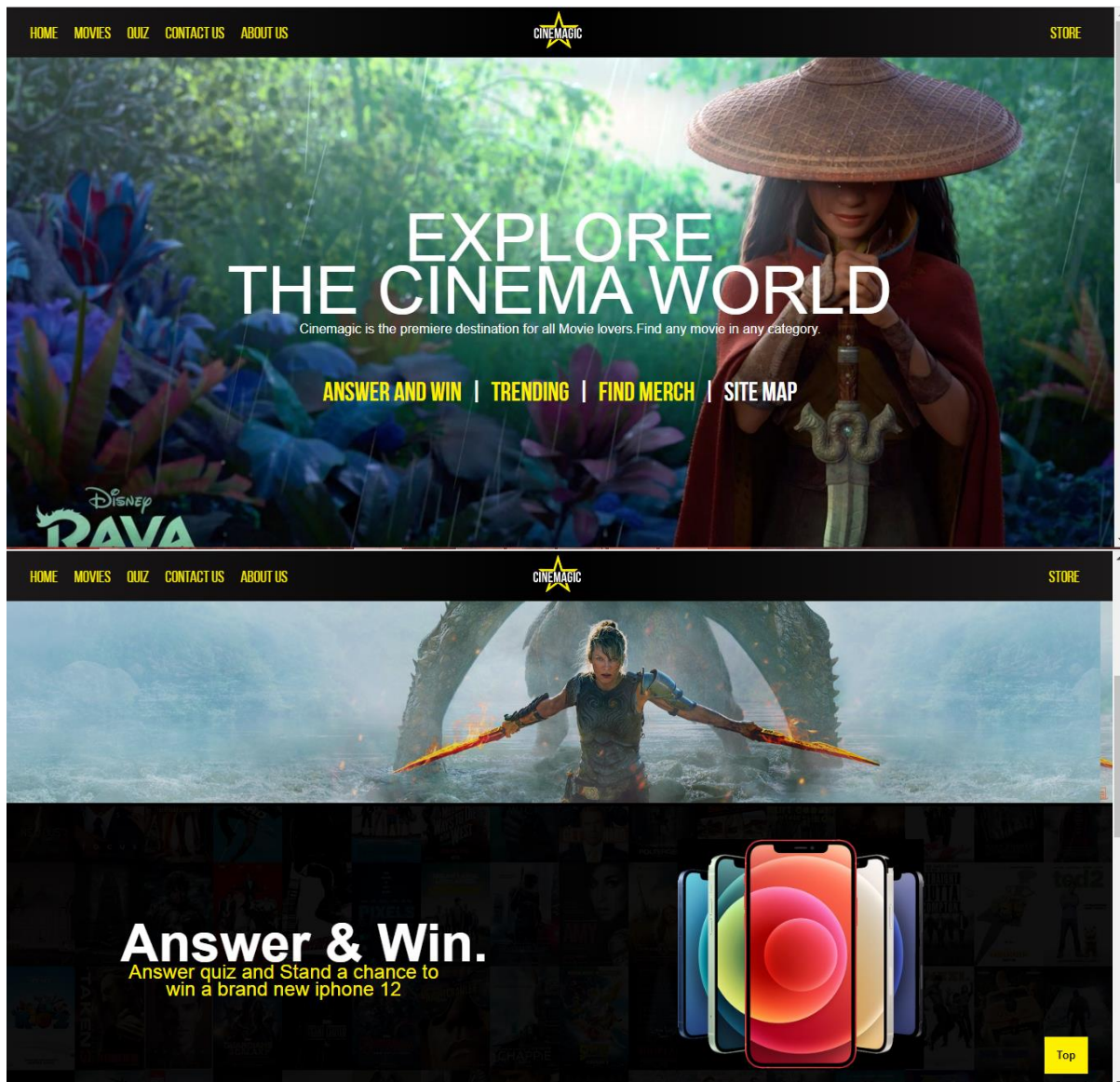
```

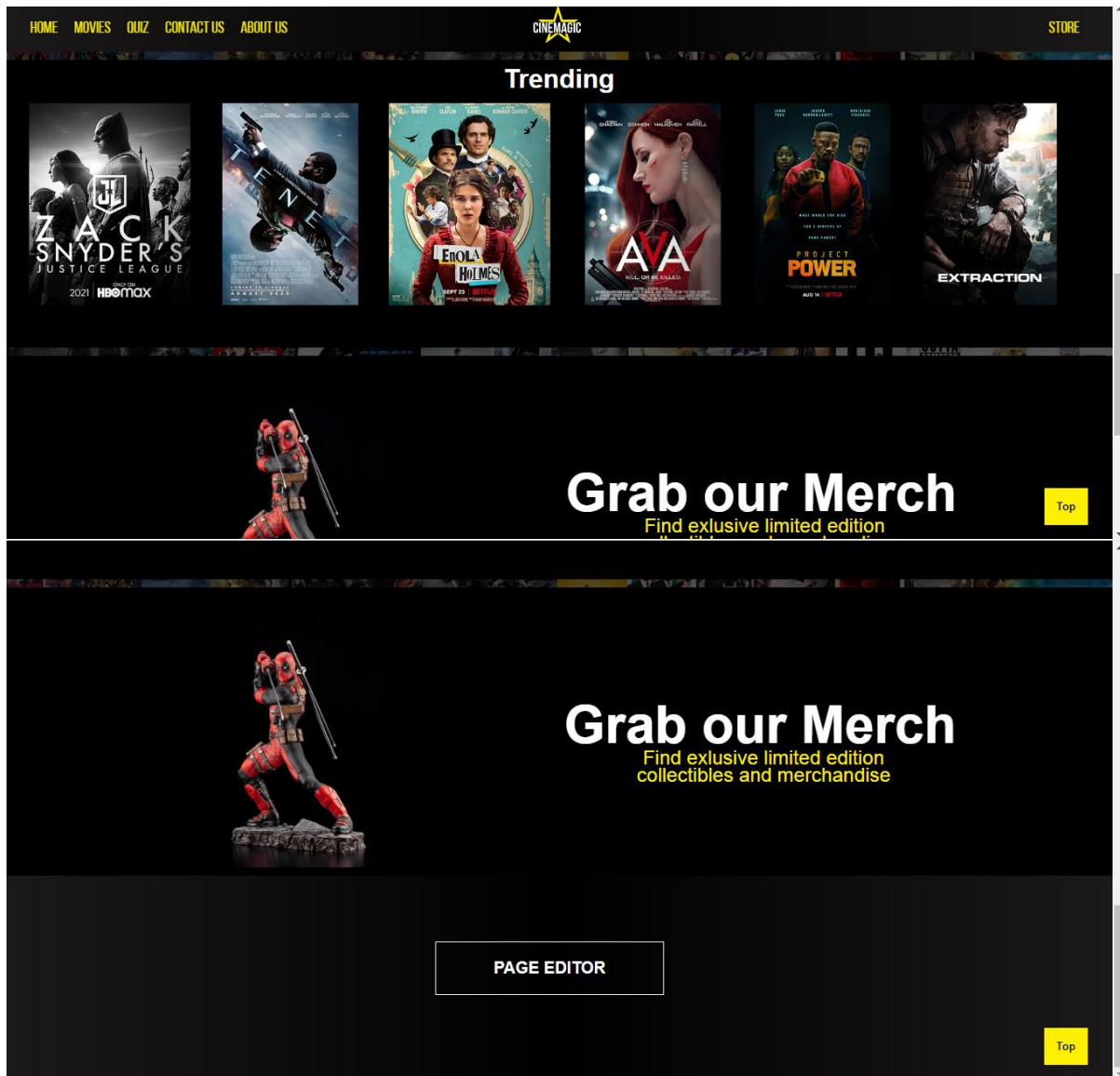
```
background: linear-gradient(90deg, rgba(27,26,26,1) 0%, rgba(0,0,0,1) 50%,
rgba(27,26,26,1) 100%);
z-index: 10;
}
.navicontent{
margin-left: 20px;
}
.navicontent a {
font-family: bebas neue;
font-size: 20px;
float: left;
display: block;
color: rgb(255,240,0);
text-align: center;
padding: 20px 10px;
text-decoration: none;
}
.navibar a: hover {
color: white;
transition: all 0.5s;
}
.logo{
left: 45%;
top: -5px;
position: absolute;
}
.shop{
float: right;
margin-right: 30px;
}
/*body styles*/
body{
margin: 0;
padding: 0;
background-image: url("back.jpg");
background-repeat: no-repeat;
background-size: 100%;
background-attachment: fixed;
}
/*button styles*/
.button {
background-color: transparent;
border: 1px solid white;
color: white;
font-weight: bold;
transition: all 0.5s;
outline: none;
}
.button: hover{
background-color: rgb(255,240,0);
color: black;
border: 1px solid black;
}
.button: active {
color: black;
transition: 0s;
}
/*footer*/
footer {
height: 250px;
background: rgb(27,26,26);
```

```
background: linear-gradient(90deg, rgba(27,26,26,1) 0%, rgba(0,0,0,1) 50%,  
rgba(27,26,26,1) 100%);  
color: white;  
}  
.editor{  
padding: 20px 70px;  
font-size: 20px;  
left:39%;  
position:relative;  
top:+80px;  
}
```

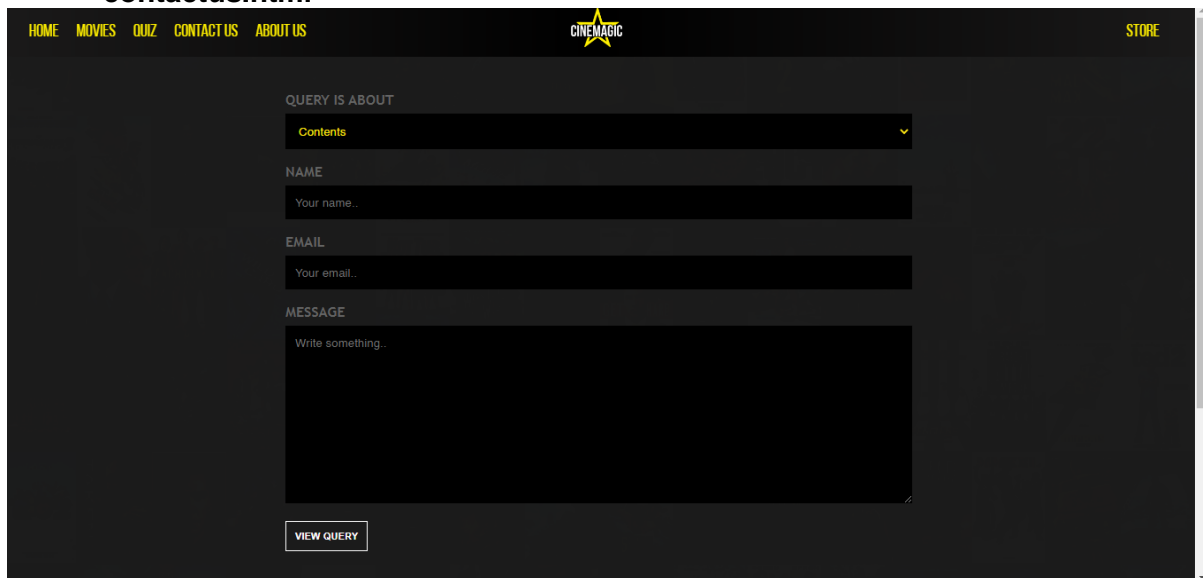

Appendix B: Screenshots

- home.html





- contactus.html



Your email..

MESSAGE

Write something..

VIEW QUERY

PAGE EDITOR

HOME MOVIES QUIZ CONTACT US ABOUT US

CINEMAGIC

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ravindu

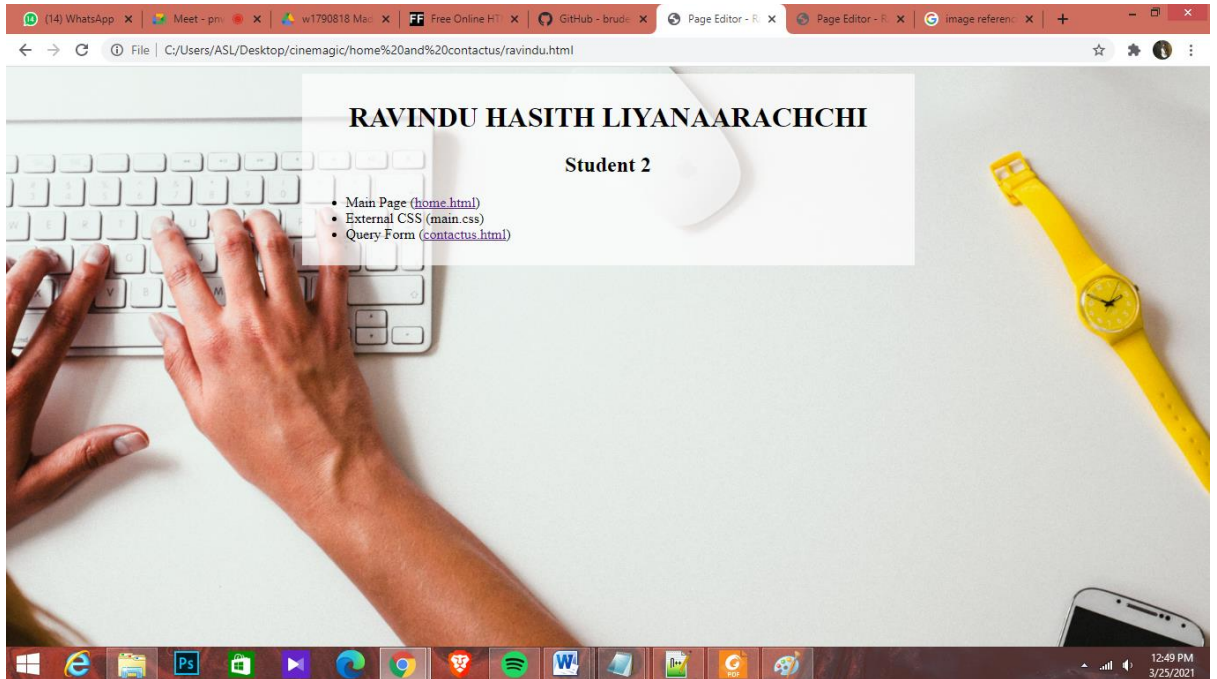
ravindu.20200303@iit.ac.lk

hi.

EDIT

SEND

• **ravindu.html**



Appendix C: Individual Statement

Student Name:	Ravindu Hasith Liyanaarachchi	Student Id:	202003033
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State what tasks you carried out in the project.			
Home page and external style sheet(navigation bar and functionality) Query Form Common style Theme			
State what you enjoyed and did not enjoy about teamwork.			
When working as a group it was a great strength and group members have separate ideas on their own. When deciding about anything it was usefull when getiing a good decision.			
State what you learnt about teamwork.			
It's important to here all ideas that members introducing since they have different good ideas.			
State what skills you gained/learnt from undertaking the project.			
Improved styling skills with css and learned how to implement a good function with javascript.			
State any strengths about yourself that emerged whilst undertaking the project.			
I have learned photoshop it was great help when styling the page			
State any weaknesses about yourself that emerged whilst undertaking the project.			
When implementing javascript functions it was hard to come to a final best function.			
State how you would do things better if you were to undertake the project again.			
Starting the work process earlier.			
Additional general or project specific comments:			
Student Signature:	Ravindu Hasith	Date:	25/3/2021