

# Web Design and Development 4COSC011W

## Report

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Student Role: 3

URL:

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## 1. Introduction

a)

Topic of the Website – Tourism (Tropical Odyssey)

In this group coursework of web design and development our group chose the subject 'tourism' and created a website about Sri Lankan tourism called 'Tropical Odyssey'. In this website the users can see what the website is about and have access to several sites in the navigation bar such as quiz, about us, query, images, buy products, sitemap, and homepage

### **List of the Team Members and Allocation of Tasks**

#### **Student 1 – Nithursiga Ramesh**

Student 1's tasks was to create a presentation page where after 5 seconds it'll redirect to the home page and to create a buy products page where the user can buy products.

#### **Student 2 - Virgina Varshika Justin Dhevanayagam**

Student 2's tasks was to create the overall website's CSS file and an inquiry form for users to fill out any question.

#### **Student 3 – Amjad Hasan Umerthambi**

Student 3's tasks was to create a student details page containing the images of the group members where when the cursor is pointed on the image a rollover effect would appear and the students name, IIT number and UOW number would appear on top of the image. The other task was to create a 'Quiz' page which included 10 with a timer of 1 minute.

#### **Student 4 - Diyon Rajeev Athukorala**

Student 4's tasks was to create a thumbnail image and the sitemap of the site.

b)

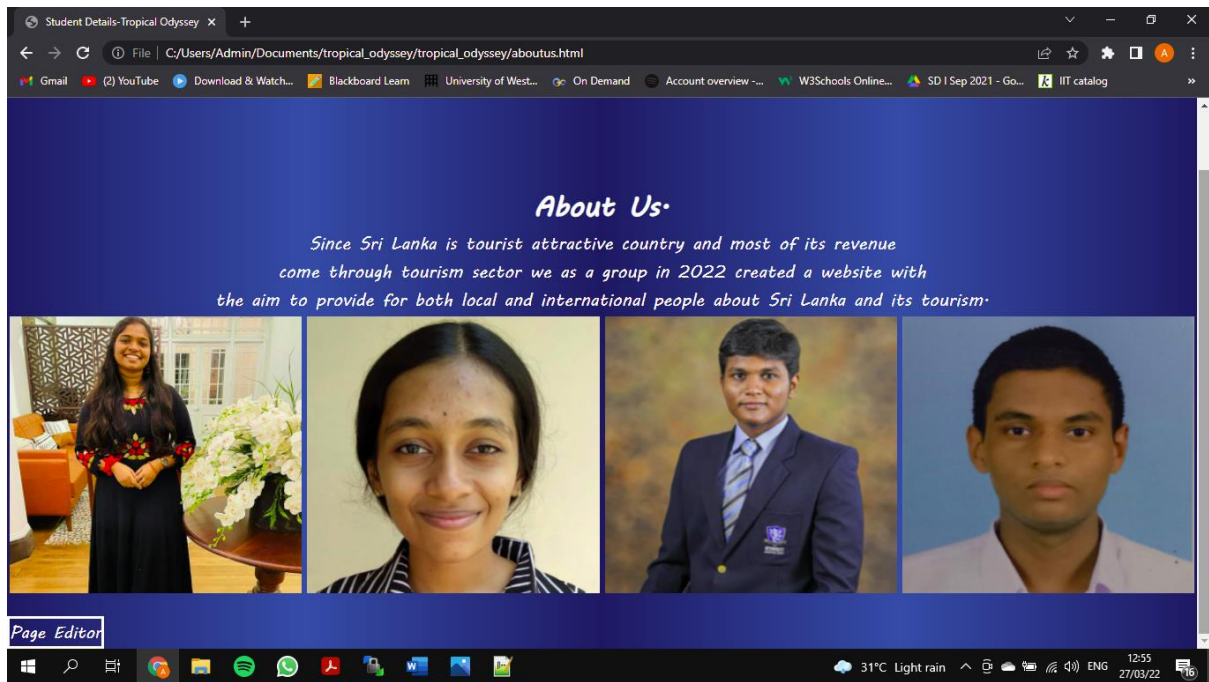
Group Coursework Meetings.		
1.	Date & Time	06/03/2022 (Online)
	Objective	To agree on website topic and assign student roles.
	Attended	Yes
	My Contribution	Suggested the subject and selected my student role.
2.	Date & Time	13/03/2022 (Online)
	Objective	To agree on design of home page.
	Attended	Yes
	My Contribution	Suggested background color black and how to display navigation bar.
3.	Date & Time	18/03/2022 (Online)
	Objective	To finalize design of home page.
	Attended	Yes
	My Contribution	Suggested the button hover to be silver color in navigation bar.
4.	Date & Time	20/03/2022 (Online)
	Objective	To decide on the extra content.
	Attended	Yes
	My Contribution	Suggested to have the content about what's famous in Sri Lanka.
5.	Date & Time	24/03/2022 (face – to - face)
	Objective	Linking the CSS file created by Student 2.
	Attended	Yes
	My Contribution	Suggested to do it in one machine to avoid confusion.
6.	Date & Time	27/03/2022 (Online)
	Objective	Finalizing the whole website.
	Attended	Yes
	My Contribution	Helped to do the validation.

## 2. Technical Discussion

Since I chose Student 2, my role's duty was to create a quiz page, student details page, an additional content page and a part of home page using HTML, CSS and JavaScript.

### Student Details Page.

Student Details Page was created using HTML and CSS for the rollover effect. The challenging part in this page was to create the rollover effect which was challenging as I had to refer a lot and after lots of error and mistakes, I did get the expected outcome.



The above is the screenshot of the Student Details Page containing the images of group members.

/\*Rollover effect fot the images\*/

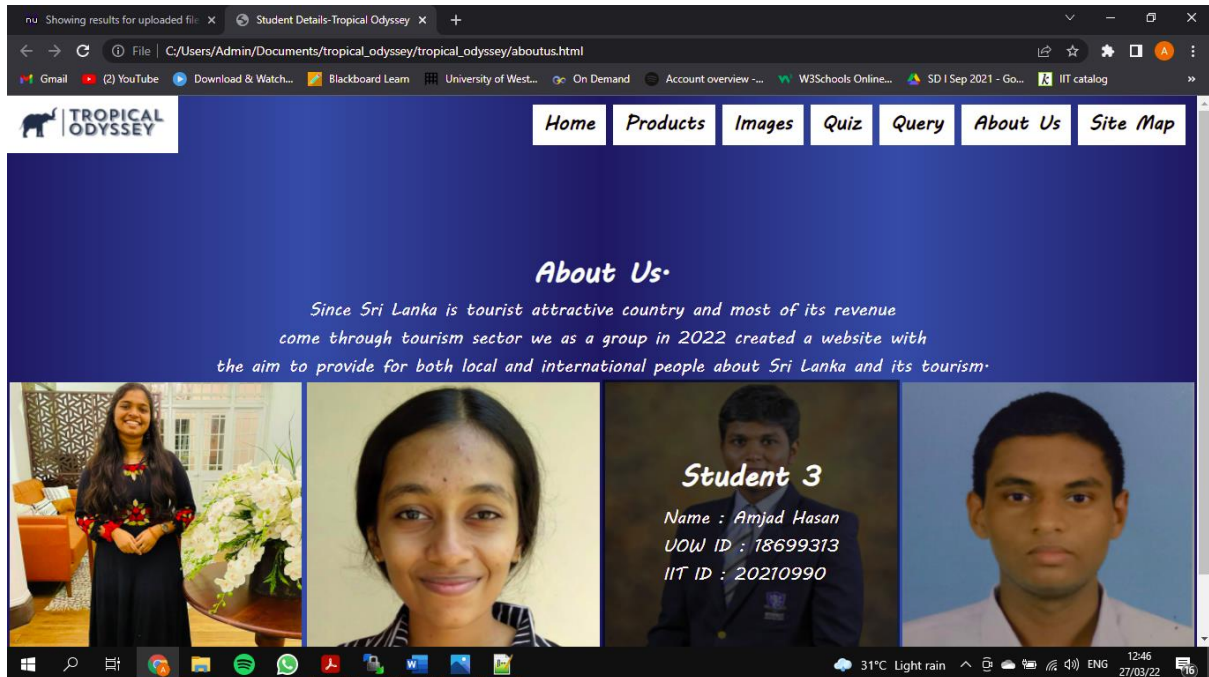
```
.image__overlay {
  position: absolute;
  top: 0;
  left: 0;
  width: 100%;
  height: 100%;
  background: rgba(0, 0, 0, 0.6);
  color: #ffffff;
  display: flex;
  flex-direction: column;
  align-items: center;
  justify-content: center;
  opacity: 0;
  transition: opacity 0.5s;
}
```

```
.image__overlay > * {
  transform: translateY(20px);
  transition: transform 0.25s;
}
```

```
.image__overlay:hover {
  opacity: 1;
}
```

```
.image__overlay:hover > * {
  transform: translateY(0);
}
```

The above is the code for the CSS part of the webpage which will create a rollover effect. When the cursor is pointed on the image it will display student role number, name of the student, IIT number and UOW number.



```
/*Displays images inline*/
.images{
  display: flex;
}
```

The above is the code for the CSS for the picture to display inline without using float or positioning.

### Quiz Page.

This quiz page was created using HTML, CSS and JavaScript. This page includes 10 different questions about Sri Lanka and about Sri Lanka's tourism.

The quiz questions were created using radio buttons and gave value for each quiz answers as it can be used to code the JavaScript.

The timer of 1 minute was created using JavaScript.

```
//Timer
var timer; var second= 60; var second2;
window.onload = function timercount(){
  timer=setInterval(function(){
    second--;
    if (second==0){
      clearTimeout(timer);
      document.getElementById("quiz").innerHTML="Your Time Is Over!"; //After 1
minute this will output
    }
    document.getElementById("timer").innerHTML=second;
  },1000);
```

The above is the code for the timer. Since the 'second' value is 60 after each 1000 milliseconds, a single value cuts down until when the second is 0 the 'clearTimeout' is used to clear the timer and quiz will disappear and will be displayed 'Your time is over!'.

Also, the required function 'getRadioValue()' was implemented in the code for each question in JavaScript.

```
var q1Arr=document.getElementsByName("q1");
```

The above variable is used to store all the answers options in the question 1. And this is repeated for all 10 questions changing the value and variable name.

```
var q1Select=" ";
```

An empty value is stored in 'q1Select' and is repeated for all 10 questions changing the variable name.

```
//Question01
```

```

        for (var i=0; i< q1Arr.length;i++){
            if (q1Arr[i].checked){
                q1Select = q1Arr[i].value;
                break;
            }
        }

        if(q1Select == "2018") {
            //when answer is correct

            document.getElementById("answer1").innerHTML = "Correct Answer!";
            correct +=2; mrk++;
        }
        else {
            //when answer is incomplete or wrong

            document.getElementById("answer1").innerHTML = "Incorrect Answer! Correct
Answer is 2018.";
            correct--; mrk2++;
        }

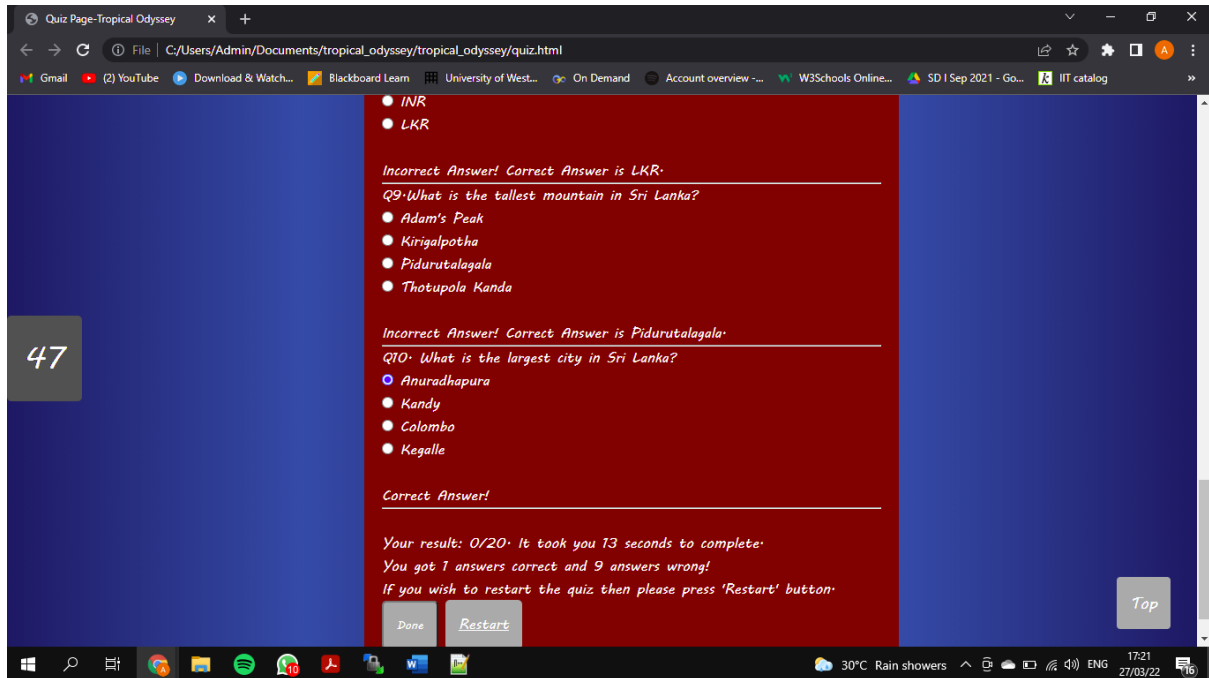
```

The above is the code where the 'getRadioValue()' is implemented and checks whether the selected option by the user is correct or incorrect by using 'IF' statement. And 'document.getElementById' is used to display the particular feedback whether the selected answer is correct or incorrect. This is repeated for all 10 questions.

After clicking on 'Done' button the feedback whether the selected answer is correct or incorrect will be displayed under each question using JavaScript.

```
<input type="button" class="quiz_button" value="Done" onclick="getRadioValue()">
```

After clicking on 'Done' button the function in JavaScript will run and the feedback will be displayed and timer will be stopped.



Also, according to the marks the user gets after completing the quiz the background color also changes.

```
//BackgroundColor
    if (correct ==20){
        {
            document.getElementById("quiz").style.backgroundColor = "#024b30";
        }
    }
    else if (correct >12){
        {
            document.getElementById("quiz").style.backgroundColor = "green";
        }
    }
    else if (correct > 6){
        {
            document.getElementById("quiz").style.backgroundColor = "red";
        }
    }
    else {
        {
            document.getElementById("quiz").style.backgroundColor = "#800000";
        }
    }
}
```

The above is the code for the background colour that changes according to the marks. This was created using the 'IF' statement. When the user gets all correct then the background colour will be dark green, get more than 12 marks a light green background colour would appear, get more than 6 marks a light red background colour would appear and for the marks below or equal to 6 a dark red background colour would appear.

```
/*Styling for the countdown in a box*/
```

```
#countdown{  
    position:fixed;  
    right:0;  
    top:250px;  
    padding:20px;  
    text-align:center;  
    background:#515151;  
    color:white;  
    font-size:35px;  
    border-radius:5px;  
}
```

```
/*Styling for the quiz in a box*/
```

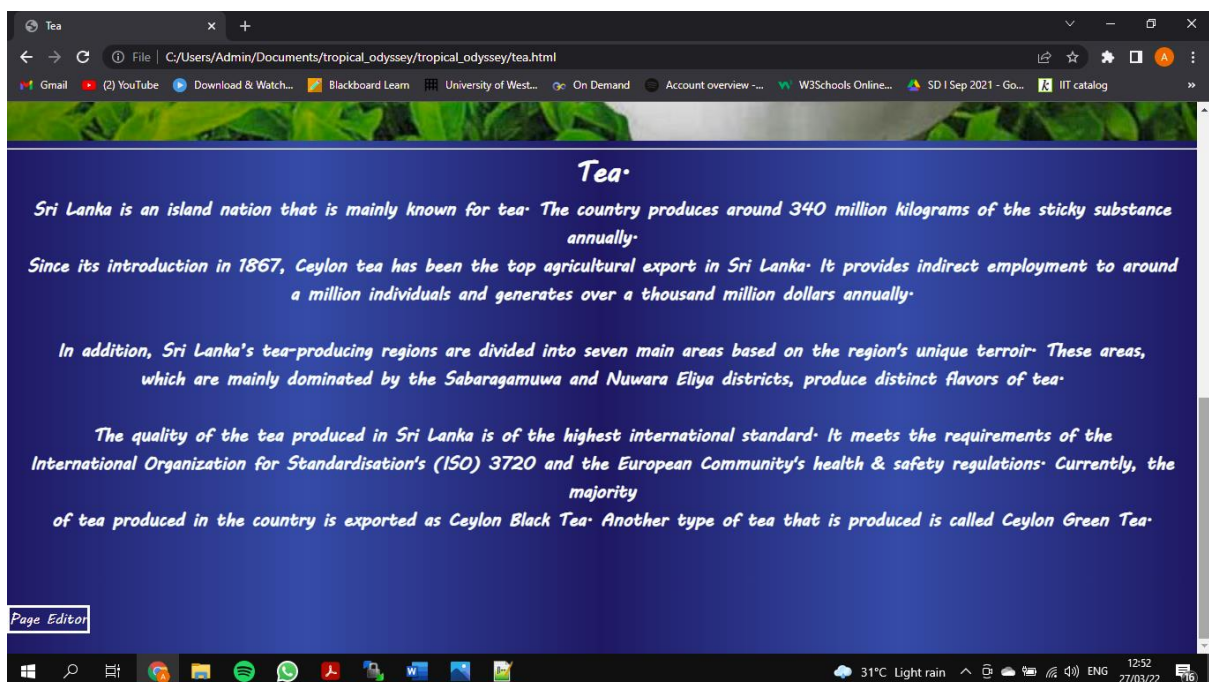
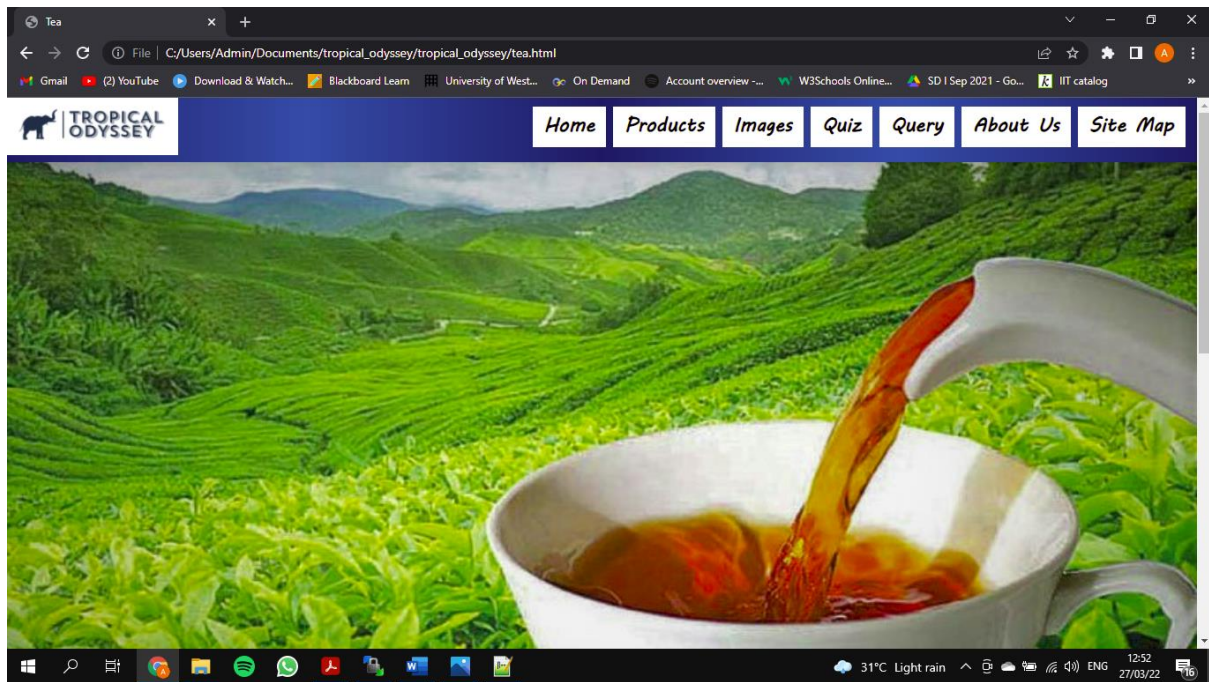
```
#quiz{  
    padding:20px;  
    margin-left:30%;  
    width:42%;  
    background:#515151;  
    color:white;  
    border-radius:5px;  
}
```

The above is the code for the CSS for this page where the questions will be displayed in the middle and timer will be displayed on the left corner middle and even if the user scrolls down the page the timer will be visible as the position is set to fixed.

### Tea Page.

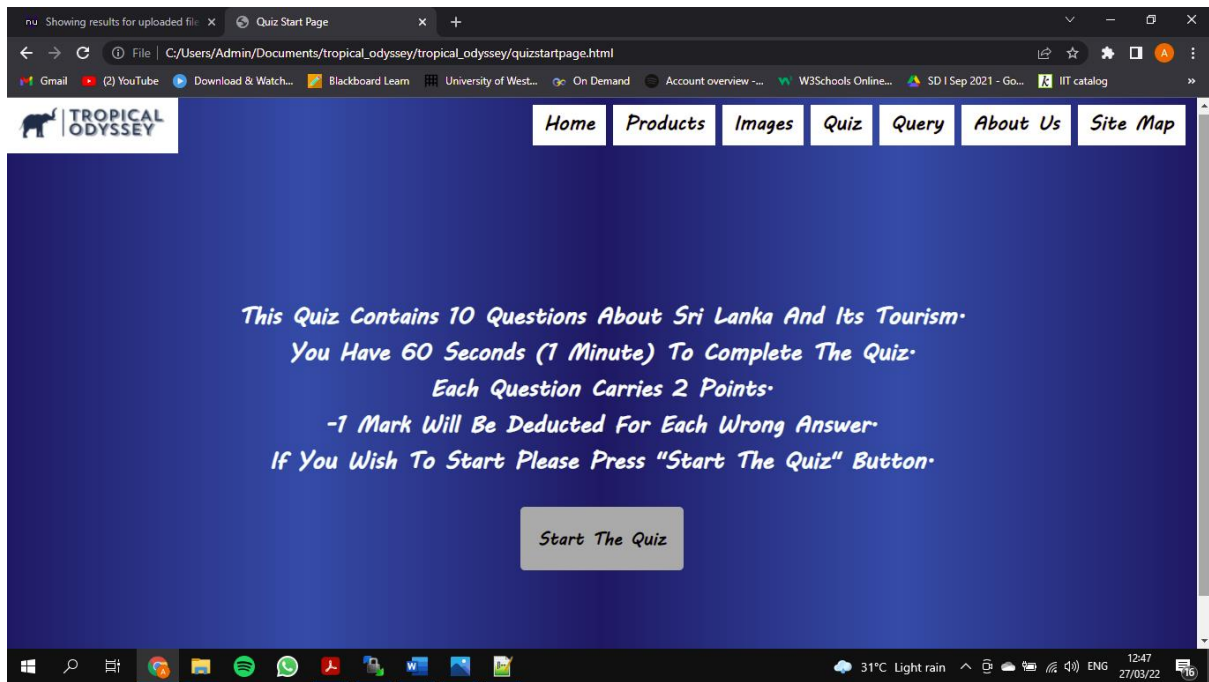
This page was the additional content page created using HTML. This page contains the image of a tea and a paragraph of the history of tea and how famous is tea famous in Sri Lanka.





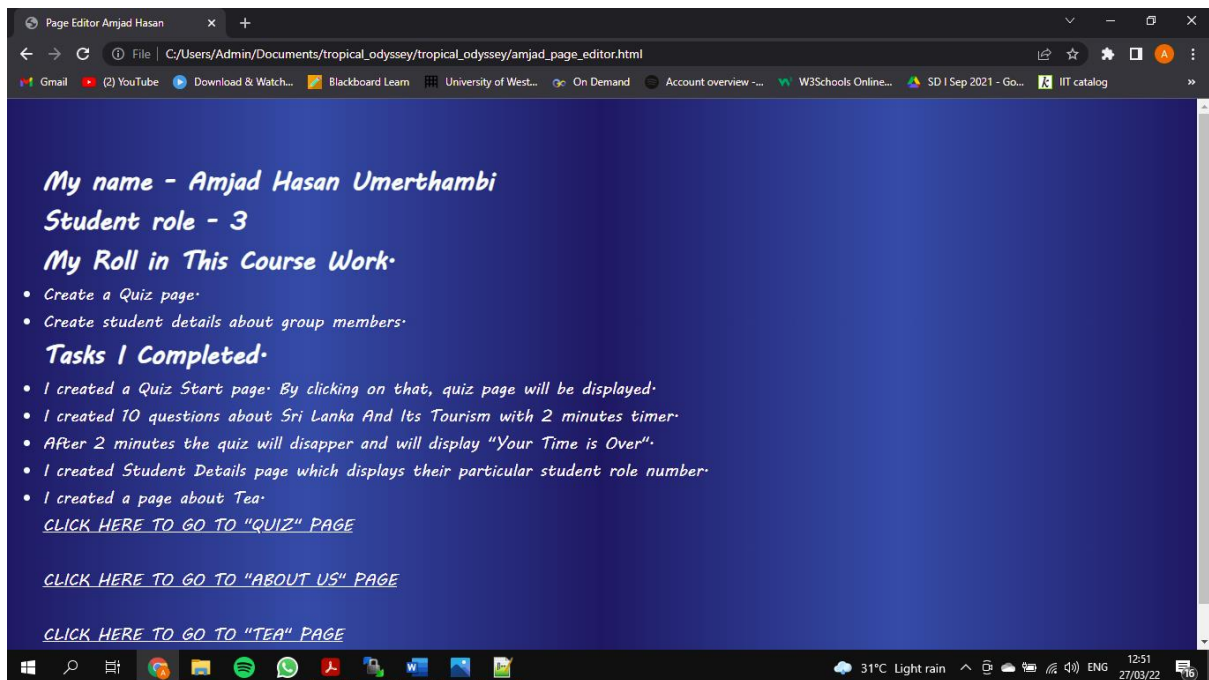
### Quiz Start Page.

This page will be displayed before starting the quiz page. This page will contain information of the quiz. If the user wants to participate on the quiz, then the user can click on a button called 'Start The Quiz' which will direct the user to the quiz page containing the questions with timer.



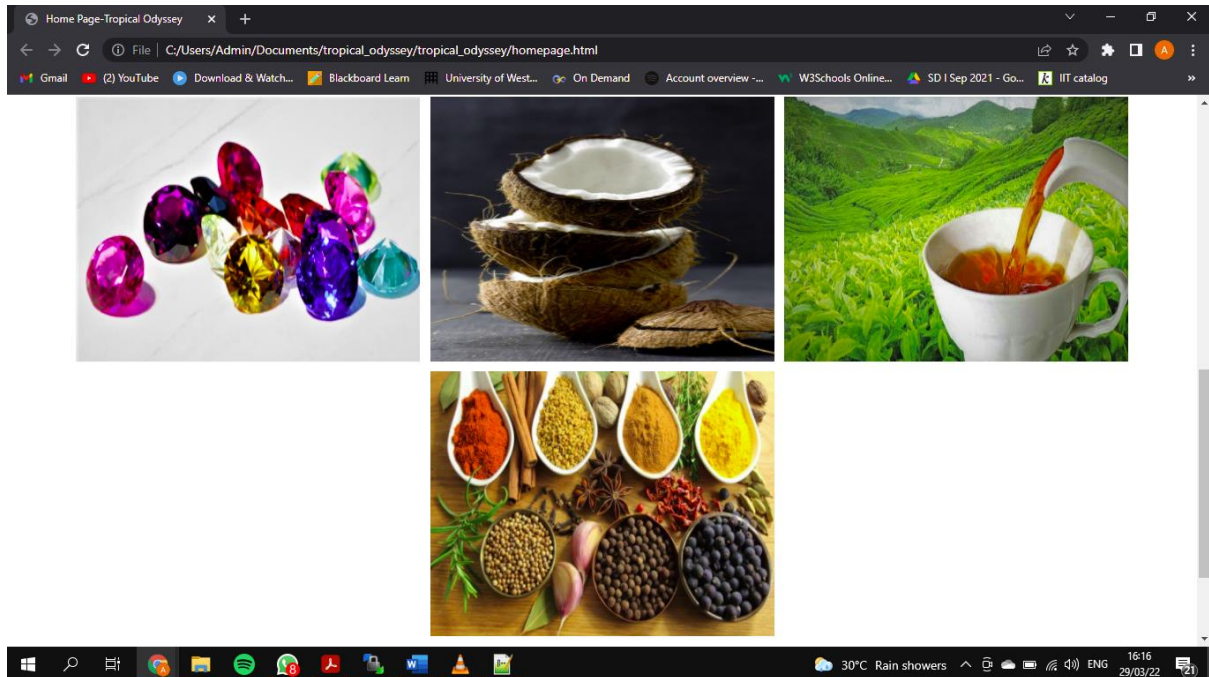
### Page Editor Page.

This page was created using HTML and used the same background color to make it look consistent with other pages.



### Main (Home) page.

This Main (Home) page was a page that was created by our team by giving each team member a task to complete in this page. My task was to add the images for the home page.



```
  
  
  

```

The above is the code that was done to add the image to the webpage whereas the other team members did the styling, linking to the image.

## 3. Webpage Validation Statement

All the individual web pages created for this coursework validated without any errors and warnings.

The screenshots of the validation results are added in Appendix C as evidence.

## 4. Janet

The web pages created for this coursework was not used to do in criminal activity such as hacking that would affect the user. All the external materials in this website are created and maintained according to the non-violating copyright policies. Also, the web pages created are safe for the user and won't harm the user by harassing or displaying any threatening message. Therefore, I haven't broken any Janet rules and regulations.

## References

Top button using JavaScript - [https://www.w3schools.com/howto/howto\\_js\\_scroll\\_to\\_top.asp](https://www.w3schools.com/howto/howto_js_scroll_to_top.asp)

Rollover effect - [https://www.w3schools.com/howto/howto\\_css\\_image\\_overlay.asp](https://www.w3schools.com/howto/howto_css_image_overlay.asp)

<https://codepen.io/dcode-software/pen/XWXVYgR>

CSS - <https://www.w3schools.com/css/default.asp>

## Appendices

### Appendix A: Code

#### aboutus.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Student Details-Tropical Odyssey</title>
    <meta charset="utf-8"/>
    <link rel="stylesheet" href="common_stylesheet/aboutustyle.css"><!--CSS file
for rollover effect-->
    <link rel="stylesheet" href="common_stylesheet/stylesheet.css">

  </head>

  <body class="bodyBackground">

    <nav> <!--logo and navigation bar-->
      <a href="homepage.html"></a>

      <div class="navLinks" id="navLinks">
        <ul>
          <li><a
href="homepage.html">Home</a></li>
          <li><a
href="store.html">Products</a></li>
          <li><a
href="thumbnailimgs.html">Images</a></li>
          <li><a
href="quizstartpage.html">Quiz</a></li>
          <li><a
href="queryform.html">Query</a></li>
          <li><a href="aboutus.html">About
Us</a></li>
          <li><a href="sitemapsvg.html">Site
Map</a></li>
        </ul>
      </div>
    </nav>
```



```

    <div class="description" style="text-align:center"> <h1><br><br>About
    Us.<br></h1> </div>

```

```

    <p style="text-align:center;font-size:20px;">Since Sri Lanka is tourist
    attractive country and most of its revenue <br>
    come through tourism sector we as a group in 2022 created a website with
    <br>the aim to provide for both local and international people about Sri Lanka and its
    tourism.

```

```

    </p>
    <div class="images">

```

```

        <div class="image">
            <!--Image link -->
            <div class="image__overlay">
                <!--This will be displayed on top of the image-->
                <div class="image__title">Student 1</div>
                <p class="image__description">Name :
Nithursiga Ramesh <br> UOW ID : 18670914 <br> IIT ID : 20210335</p>
            </div>
        </div>

```

```

        <div class="image">
            
            <div class="image__overlay">
                <div class="image__title">Student 2</div>
                <p class="image__description">Name :
Varshika Dhevanayagam <br> UOW ID : 18699296 <br> IIT ID : 20210977</p>
            </div>
        </div>

```

```

        <div class="image">
            
            <div class="image__overlay">
                <div class="image__title">Student 3</div>
                <p class="image__description">Name : Amjad
Hasan <br> UOW ID : 18699313 <br> IIT ID : 20210990</p>
            </div>
        </div>

```

```

        <div class="image">
            
            <div class="image__overlay">
                <div class="image__title">Student 4</div>
                <p class="image__description">Name : Diyon
Athukorala <br> UOW ID : 18671922 <br> IIT ID : 20210520</p>
            </div>
        </div>
    </div>

```

```

        <br>

        <div class="PageEditor" style="font-size:19px"> <!--Page Editor Page Link-->
            <a href= "amjad_page_editor.html" style="text-decoration:none;
border: 3px solid white; color:white;">Page Editor</a>
        </div>

    </body>
</html>

```

## amjad\_page\_editor.html

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8"/>
    <title> Page Editor Amjad Hasan </title>
    <style>
        body{
            font-size: 19px;
        }
    </style>
    <link rel="stylesheet" href="common_stylesheer/stylesheer.css">
</head>

<body class="bodyBackground" style="padding:3%;">

    <br>
    <h2>My name - Amjad Hasan Umerthambi</h2>
    <h2>Student role - 3 </h2>

    <h2><b>My Roll in This Course Work.</b></h2>
    <ul>
        <li> Create a Quiz page.</li>
        <li> Create student details about group members.</li>
    </ul>

    <h2><b>Tasks I Completed.</b></h2>
    <ul>
        <li> I created a Quiz Start page. By clicking on that, quiz page will be
displayed.</li>
        <li> I created 10 questions about Sri Lanka And Its Tourism with 2 minutes
timer.</li>
        <li> After 2 minutes the quiz will disapper and will display "Your Time is
Over".</li>
        <li> I created Student Details page which displays their particular student role
number.</li>
        <li> I created a page about Tea.</li>
    </ul>

```

```

    <a href="quizstartpage.html" style="color:white;"> CLICK HERE TO GO TO "QUIZ"
PAGE </a>
    <br><br>
    <a href="aboutus.html" style="color:white;"> CLICK HERE TO GO TO "ABOUT US"
PAGE </a>
    <br><br>
    <a href="tea.html" style="color:white;"> CLICK HERE TO GO TO "TEA" PAGE </a>
</body>
</html>

```

## quizstartpage.html

```

<!DOCTYPE html>
<html lang="en">
    <head>
        <title>Quiz Start Page</title>
        <meta charset="utf-8"/>
        <link rel="stylesheet" href="common_stylesheets/quizstyle.css"> <!--CSS file
for quiz start button-->
        <link rel="stylesheet" href="common_stylesheets/stylesheets.css">

    </head>
    <body class="bodyBackground">

        <nav> <!--logo and navigation bar-->
            <a href="homepage.html"></a>

            <div class="navLinks" id="navLinks">
                <ul>
                    <li><a
href="homepage.html">Home</a></li>
                    <li><a
href="store.html">Products</a></li>
                    <li><a
href="thumbnailimgs.html">Images</a></li>
                    <li><a
href="quizstartpage.html">Quiz</a></li>
                    <li><a
href="queryform.html">Query</a></li>
                    <li><a href="aboutus.html">About
Us</a></li>
                    <li><a href="sitemapsvg.html">Site
Map</a></li>
                </ul>
            </div>
        </nav>

        <br><br><br><br><br><br>
        <div class="quiz_description" style="text-align:center;font-size:22px">
            <!--An introduction of quiz-->

```

```

    <h3>This Quiz Contains 10 Questions About Sri Lanka And Its
Tourism.</h3>
    <h3>You Have 60 Seconds &#40;1 Minute&#41; To Complete The
Quiz.</h3>
    <h3>Each Question Carries 2 Points.</h3>
    <h3>-1 Mark Will Be Deducted For Each Wrong Answer.</h3>
    <h3>If You Wish To Start Please Press "Start The Quiz" Button.</h3>
</div>
<br><br>

<!--When clicked it will redirect to page with quiz questions-->
<div class="quiz_path" style="text-align:center">
    <a href="quiz.html" class="QuizStartButton" style="color:black; font-
weight:bold; text-decoration:none;">Start The Quiz</a>
</div>

<br><br><br><br><br>
<div class="PageEditor"><!--Page Editor Page Link-->
    <a href="amjad_page_editor.html" style="text-decoration:none;
border: 3px solid white; color:white;">Page Editor</a>
</div>
</body>

</html>

```

## quiz.html

```

<!doctype html>
<html lang="en">
<head>
    <title>Quiz Page-Tropical Odyssey</title>
    <meta charset="utf-8"/>
    <link rel="stylesheet" href="common_stylesheets/quizstyle.css"> <!--CSS file for quiz
start button-->
    <link rel="stylesheet" href="common_stylesheets/stylesheet.css">

</head>

<body class="bodyBackground">
    <button onclick="topFunction()" id="myBtn" title="Go to top">Top</button> <!--Top
button-->
    <nav> <!--logo and navigation bar-->
        <a href="homepage.html"></a>

        <div class="navLinks" id="navLinks">
            <ul>
                <li><a
href="homepage.html">Home</a></li>
                <li><a
href="store.html">Products</a></li>

```



```

href="thumbnailimg.html">Images</a></li>
href="quizstartpage.html">Quiz</a></li>
href="queryform.html">Query</a></li>
Us</a></li>
Map</a></li>
</ul>
</div>
</nav>

<br><br><br><br><br>
<div class="table">
  <div id="quiz">
    <h1 id="goodluck">Good Luck!</h1><hr>

    <!--Quiz Questions-->
    <p> Q1. Which year had the highest tourism rate in Sri
Lanka?</p>

    <form>
      <!--Quiz Answer Options-->
      <input type="radio" name="q1" value="2016">
<label>2016</label><br>
      <input type="radio" name="q1" value="2017">
<label>2017</label><br>
      <input type="radio" name="q1" value="2018">
<label>2018</label><br>
      <input type="radio" name="q1" value="2019">
<label>2019</label><br>
    </form>
    <!--Displayed after clicking on 'Done' button whether answer is
correct or incorrect-->

    <div id="answer1"> </div><hr>

    <p> Q2. What is the capital city of Sri Lanka?</p>
    <form>
      <input type="radio" name="q2" value="Sri
Jayawardanapura Kotte"> <label>Sri Jayawardanapura Kotte</label><br>
      <input type="radio" name="q2" value="Jaffna">
<label>Jaffna</label><br>
      <input type="radio" name="q2" value="Sigiriya">
<label>Sigiriya</label><br>
      <input type="radio" name="q2" value="Gampaha">
<label>Gampaha</label><br><br>
    </form>
    <div id="answer2"> </div><hr>

    <p> Q3. What is the national fruit of Sri Lanka?</p>
    <form>
      <input type="radio" name="q3" value="Mango">
<label>Mango</label><br>

```

```

<input type="radio" name="q3" value="Jackfruit">
<label>Jackfruit</label><br>
<input type="radio" name="q3" value="Apple">
<label>Apple</label><br>
<input type="radio" name="q3" value="Banana">
<label>Banana</label><br><br>
</form>
<div id="answer3"> </div><hr>

<p> Q4. How many districts are there in Sri Lanka?</p>
<form>
<input type="radio" name="q4" value="22">
<label>22</label><br>
<input type="radio" name="q4" value="23">
<label>23</label><br>
<input type="radio" name="q4" value="24">
<label>24</label><br>
<input type="radio" name="q4" value="25">
<label>25</label><br>
<br>
</form>
<div id="answer4"> </div><hr>

<p> Q5. Which animal appears on the flag of Sri Lanka?</p>
<form>
<input type="radio" name="q5" value="Tiger">
<label>Tiger</label><br>
<input type="radio" name="q5" value="Lion">
<label>Lion</label><br>
<input type="radio" name="q5" value="Panther">
<label>Panther</label><br>
<input type="radio" name="q5" value="Cheetah">
<label>Cheetah</label><br><br>
</form>
<div id="answer5"> </div><hr>

<p> Q6. When did Sri Lanka receive independence?</p>
<form>
<input type="radio" name="q6" value="4th February
1948"> <label>4th February 1948</label><br>
<input type="radio" name="q6" value="4th February
1949"> <label>4th February 1949</label><br>
<input type="radio" name="q6" value="4th March
1958"> <label>4th February 1958</label><br>
<input type="radio" name="q6" value="4th March
1959"> <label>4th February 1959</label><br>
<br>
</form>
<div id="answer6"> </div><hr>

<p> Q7. What is the largest river in Sri Lanka?</p>
<form>
<input type="radio" name="q7" value="Yan Oya">
<label>Yan Oya </label><br>
<input type="radio" name="q7" value="Kala Oya">
<label>Kala Oya </label><br>

```

```

<input type="radio" name="q7" value="Kelani Ganga">
<label>Kelani Ganga</label><br>
<input type="radio" name="q7" value="Mahaweli
Ganga"> <label>Mahaweli Ganga</label><br><br>
</form>
<div id="answer7"> </div><hr>

<p> Q8. Which currency is used in Sri Lanka?</p>
<form>
<input type="radio" name="q8" value="USD">
<label>USD</label><br>
<input type="radio" name="q8" value="AED">
<label>AED</label><br>
<input type="radio" name="q8" value="INR">
<label>INR</label><br>
<input type="radio" name="q8" value="LKR">
<label>LKR</label><br><br>
</form>
<div id="answer8"> </div><hr>

<p> Q9.What is the tallest mountain in Sri Lanka?</p>
<form>
<input type="radio" name="q9" value="Adam's Peak">
<label>Adam's Peak</label><br>
<input type="radio" name="q9" value="Kirigalpotha">
<label>Kirigalpotha</label><br>
<input type="radio" name="q9" value="Pidurutalagala">
<label>Pidurutalagala</label><br>
<input type="radio" name="q9" value="Thotupola
Kanda"> <label>Thotupola Kanda</label><br><br>
</form>
<div id="answer9"> </div><hr>

<p> Q10. What is the largest city in Sri Lanka?</p>
<form>
<input type="radio" name="q10"
value="Anuradhapura"> <label>Anuradhapura</label><br>
<input type="radio" name="q10" value="Kandy">
<label>Kandy</label><br>
<input type="radio" name="q10" value="Colombo">
<label>Colombo</label><br>
<input type="radio" name="q10" value="Kegalle">
<label>Kegalle</label><br><br>
</form>
<div id="answer10"> </div><hr><br>

<!--Timer display-->
<div id="countdown">
  <p id="timer"> </p>
</div>

<!--Result will be displayed-->
<div id="feedback">
  <p id="result"> </p>
  <p id="finalresult"> </p>

```

```

        <p id="restart"> </p>
    </div>

    <!--If clicked 'getRadioValue()' function will work displaying results -->
    <input type="button" class="quiz_button" value="Done"
onclick="getRadioValue()">

    <!--If clicked will redirect to 'Quiz Start Page'-->
    <a href="quizstartpage.html" class="quiz_button">Restart</a><hr>

</div>

<script>
    //Timer
    var timer; var second= 60; var second2;
    window.onload = function timercount(){
        timer=setInterval(function(){
            second--;
            if (second==0){
                clearTimeout(timer);
                document.getElementById("quiz").innerHTML="Your Time Is Over!"; //After 1
minute this will output
            }
            document.getElementById("timer").innerHTML=second;
        },1000);
    }

    function getRadioValue(){
        clearTimeout(timer);
        var correct=0; var mrk=0; var mrk2=0;
        var q1Arr=document.getElementsByName("q1"); var
q2Arr=document.getElementsByName("q2");
        var q3Arr=document.getElementsByName("q3"); var
q4Arr=document.getElementsByName("q4");
        var q5Arr=document.getElementsByName("q5"); var
q6Arr=document.getElementsByName("q6");
        var q7Arr=document.getElementsByName("q7"); var
q8Arr=document.getElementsByName("q8");
        var q9Arr=document.getElementsByName("q9"); var
q10Arr=document.getElementsByName("q10");

        var q1Select=" "; var q2Select=" "; var q3Select=" "; var q4Select=" ";
var q5Select=" ";
        var q6Select=" "; var q7Select=" "; var q8Select=" "; var q9Select=" ";
var q10Select=" ";

        //Question01
        for (var i=0; i< q1Arr.length;i++){
            if (q1Arr[i].checked){
                q1Select = q1Arr[i].value;
                break;
            }
        }
    }

```

```
        if(q1Select == "2018") {
            //when answer is correct

            document.getElementById("answer1").innerHTML = "Correct Answer!";
            correct +=2; mrk++;
        }
        else {
            //when answer is incomplete or wrong

            document.getElementById("answer1").innerHTML = "Incorrect Answer! Correct
Answer is 2018.";
            correct--; mrk2++;
        }

        //Question02
        for (var i=0; i< q2Arr.length;i++){
            if (q2Arr[i].checked){
                q2Select = q2Arr[i].value;
                break;
            }
        }

        if(q2Select == "Sri Jayawardanapura Kotte") {
            document.getElementById("answer2").innerHTML = "Correct Answer!" ;
            correct +=2; mrk++;
        }
        else {
            document.getElementById("answer2").innerHTML = "Incorrect Answer! Correct
Answer is Sri Jayawardanapura Kotte." ;
            correct--; mrk2++;
        }

        //Question03
        for (var i=0; i< q3Arr.length;i++){
            if (q3Arr[i].checked){
                q3Select = q3Arr[i].value;
                break;
            }
        }

        if(q3Select == "Jackfruit") {
            document.getElementById("answer3").innerHTML = "Correct Answer!" ;
            correct +=2; mrk++;
        }
        else {
            document.getElementById("answer3").innerHTML = "Incorrect Answer! Correct
Answer is Jackfruit." ;
            correct--; mrk2++;
        }

        //Question04
        for (var i=0; i< q4Arr.length;i++){
            if (q4Arr[i].checked){
                q4Select = q4Arr[i].value;
                break;
            }
        }
    }
}
```

```
    }  
  }  
  
  if(q4Select == "25") {  
    document.getElementById("answer4").innerHTML = "Correct Answer!" ;  
    correct +=2; mrk++;  
  }  
  else {  
    document.getElementById("answer4").innerHTML = "Incorrect Answer! Correct  
Answer is 25." ;  
    correct--; mrk2++;  
  }  
  
  //Question05  
  for (var i=0; i< q5Arr.length;i++){  
    if (q5Arr[i].checked){  
      q5Select = q5Arr[i].value;  
      break;  
    }  
  }  
  
  if(q5Select == "Lion") {  
    document.getElementById("answer5").innerHTML = "Correct Answer!" ;  
    correct +=2; mrk++;  
  }  
  else {  
    document.getElementById("answer5").innerHTML = "Incorrect Answer! Correct  
Answer is Lion." ;  
    correct--; mrk2++;  
  }  
  
  //Question06  
  for (var i=0; i< q6Arr.length;i++){  
    if (q6Arr[i].checked){  
      q6Select = q6Arr[i].value;  
      break;  
    }  
  }  
  
  if(q6Select == "4th February 1948") {  
    document.getElementById("answer6").innerHTML = "Correct Answer!" ;  
    correct +=2; mrk++;  
  }  
  else {  
    document.getElementById("answer6").innerHTML = "Incorrect Answer! Correct  
Answer is 4th February 1948. " ;  
    correct--; mrk2++;  
  }  
  
  //Question07  
  for (var i=0; i< q7Arr.length;i++){  
    if (q7Arr[i].checked){  
      q7Select = q7Arr[i].value;  
      break;  
    }  
  }
```

```
}

if(q7Select == "Mahaweli Ganga") {
    document.getElementById("answer7").innerHTML = "Correct Answer!" ;
    correct +=2; mrk++;
}
else {
    document.getElementById("answer7").innerHTML = "Incorrect Answer! Correct
Answer is Mahaweli Ganga." ;
    correct--; mrk2++;
}

//Question08
for (var i=0; i< q8Arr.length;i++){
    if (q8Arr[i].checked){
        q8Select = q8Arr[i].value;
        break;
    }
}

if(q8Select == "LKR") {
    document.getElementById("answer8").innerHTML = "Correct Answer!" ;
    correct +=2; mrk++;
}
else {
    document.getElementById("answer8").innerHTML = "Incorrect Answer! Correct
Answer is LKR." ;
    correct--; mrk2++;
}

//Question09
for (var i=0; i< q9Arr.length;i++){
    if (q9Arr[i].checked){
        q9Select = q9Arr[i].value;
        break;
    }
}

if(q9Select == "Pidurutalagala") {
    document.getElementById("answer9").innerHTML = "Correct Answer!" ;
    correct +=2; mrk++;
}
else {
    document.getElementById("answer9").innerHTML = "Incorrect Answer! Correct
Answer is Pidurutalagala." ;
    correct--; mrk2++;
}

//Question10
for (var i=0; i< q10Arr.length;i++){
    if (q10Arr[i].checked){
        q10Select = q10Arr[i].value;
        break;
    }
}
```

```

        if(q10Select == "Anuradhapura") {
            document.getElementById("answer10").innerHTML = "Correct Answer!";
            correct +=2; mrk++;
        }
        else {
            document.getElementById("answer10").innerHTML = "Incorrect Answer!
Correct Answer is Anuradhapura";
            correct--; mrk2++;
        }

        if (correct<0){
            correct=0;
        }

//BackgroundColor
if (correct ==20){
    {
        document.getElementById("quiz").style.backgroundColor = "#024b30";
    }
}
else if (correct >12){
    {
        document.getElementById("quiz").style.backgroundColor = "green";
    }
}
else if (correct > 6){
    {
        document.getElementById("quiz").style.backgroundColor = "red";
    }
}
else {
    {
        document.getElementById("quiz").style.backgroundColor = "#800000";
    }
}

//After Clicking on 'Done' Button, the releavent results will be displayed
second2=60-second;
document.getElementById("feedback").style.visibility = "visible";
document.getElementById("result").innerHTML = "Your result: " + correct + "/20." + "
It took you " + second2 + " seconds to complete.";
document.getElementById("finalresult").innerHTML= "You got " +mrk+ " answers
correct and "+mrk2+" answers wrong!";
document.getElementById("restart").innerHTML= "If you wish to restart the quiz then
please press 'Restart' button."
}

//Coding for Top button
var mybutton = document.getElementById("myBtn");

// When the user scrolls down 20px, the button will be displayed
window.onscroll = function() {scrollFunction()};

function scrollFunction() {

```



```

        if (document.body.scrollTop > 20 || document.documentElement.scrollTop > 20) {
            mybutton.style.display = "block";
        } else {
            mybutton.style.display = "none";
        }
    }
}

// When the user clicks on the button, it will scroll up to the top of the page
function topFunction() {
    document.body.scrollTop = 0;
    document.documentElement.scrollTop = 0;
}
</script>

<div class="PageEditor"> <!--Page Editor Page Link-->
    <a href= "amjad_page_editor.html" style="text-decoration:none; border: 3px
solid white; color:white;">Page Editor</a>
</div>
</div>

</body>
</html>

```

## tea.html

```

<!DOCTYPE html>
<html lang="en">
    <head>
        <title>Tea</title>
        <meta charset="utf-8"/>
        <link rel="stylesheet" href="common_stylesheets/style.css">
    </head>
    <body class="bodyBackground">

        <nav> <!--logo and navigation bar-->
            <a href="homepage.html"></a>

            <div class="navLinks" id="navLinks">
                <ul>
                    <li><a
href="homepage.html">Home</a></li>
                    <li><a
href="store.html">Products</a></li>
                    <li><a
href="thumbnailimg.html">Images</a></li>
                    <li><a
href="quizstartpage.html">Quiz</a></li>
                    <li><a
href="queryform.html">Query</a></li>
                    <li><a href="aboutus.html">About
Us</a></li>

```

```

Map</a></li>
</ul>
</div>
</nav>

<!--
Image of Tea-->

<div class="colombo_details"><hr>
  <h1 id="Tea" style="text-align:center">Tea.</h1>
  <div class="content">
    <!--Information about tea in Sri Lanka-->
    <p id="colombo_content" style="text-align:center; font-
size:20px; font-weight:bold;">Sri Lanka is an island nation that is mainly known for tea. The
country produces around 340 million kilograms of the sticky substance annually. <br> Since
its introduction in 1867, Ceylon tea has been the top agricultural export in Sri Lanka. It
provides indirect employment to around <br> a million individuals and generates over a
thousand million dollars annually. <br><br>

    In addition, Sri Lanka's tea-producing regions are divided into seven main areas
    based on the region's unique terroir. These areas,<br>
    which are mainly dominated by the Sabaragamuwa and
    Nuwara Eliya districts, produce distinct flavors of tea.<br><br>

    The quality of the tea produced in Sri Lanka is of the highest
    international standard. It meets the requirements of the <br> International Organization for
    Standardisation's (ISO) 3720 and the European Community's health & safety regulations.
    Currently, the majority <br> of tea produced in the country is exported as Ceylon Black Tea.
    Another type of tea that is produced is called Ceylon Green Tea.<br><br></p>
  </div>
</div>
<br><br>
<div class="PageEditor"><!--Page Editor Page Link-->

  <a href= "amjad_page_editor.html" style="text-decoration:none;
border: 3px solid white; color:white;">Page Editor</a>

  <br>
  <br>

</div>
</body>
</html>

```

## aboutusstyle.css (Style Sheet For 'About Us' Page.)

```

.image{
  position:relative;
  width:25%;
}

/*Styling image size and padding image*/

```

```
.image__img {
    padding:3px;
    display: block;
    height: 320px;
    width:40%;
    min-width: 100%;
    max-width: 100%;
}

/*Rollover effect fot the images*/
.image__overlay {
    position: absolute;
    top: 0;
    left: 0;
    width: 100%;
    height: 100%;
    background: rgba(0, 0, 0, 0.6);
    color: #ffffff;
    display: flex;
    flex-direction: column;
    align-items: center;
    justify-content: center;
    opacity: 0;
    transition: opacity 0.5s;
}

.image__overlay > * {
    transform: translateY(20px);
    transition: transform 0.25s;
}

.image__overlay:hover {
    opacity: 1;
}

.image__overlay:hover > * {
    transform: translateY(0);
}

/*Styling font*/
.image__title {
    font-size: 2em;
    font-weight: bold;
}

/*Styling font*/
.image__description {
    font-size: 1.25em;
    margin-top: 0.25em;
}

/*Padding between images*/
*{
    box-sizing: border-box;
}
```

```
/*Displays images inline*/
.images{
  display: flex;
}
```

## quizstyle.css (Style Sheet For 'Quiz' Page and 'Quiz Start Page' .)

```
#goodluck{
  color:white;
  font-size:38px;
  text-align:center;
}
/*Styling for the countdown in a box*/
#countdown{
  position:fixed;
  left:0;
  top:250px;
  padding:20px;
  text-align:center;
  background:#515151;
  color:white;
  font-size:35px;
  border-radius:5px;
}

/*Styling for the quiz in a box*/
#quiz{
  padding:20px;
  margin-left:30%;
  width:42%;
  background:#515151;
  color:white;
  border-radius:5px;
}

/*Styling for buttons*/
.quiz_button{
  padding:15px;
  background:#aaa;
  color:white ;
  border-radius:5px;
}

/*Hover effect for the buttons*/
.quiz_button:hover {
  background-color: #bbb;
}

/*Styling the quiz start page button*/
.QuizStartButton{
  background:#aaa;
  color:white;
  padding:20px;
```

```

        border-radius:5px;
        font-size:20px;
    }

    .QuizStartButton:hover{
        background-color: #bbb;
    }

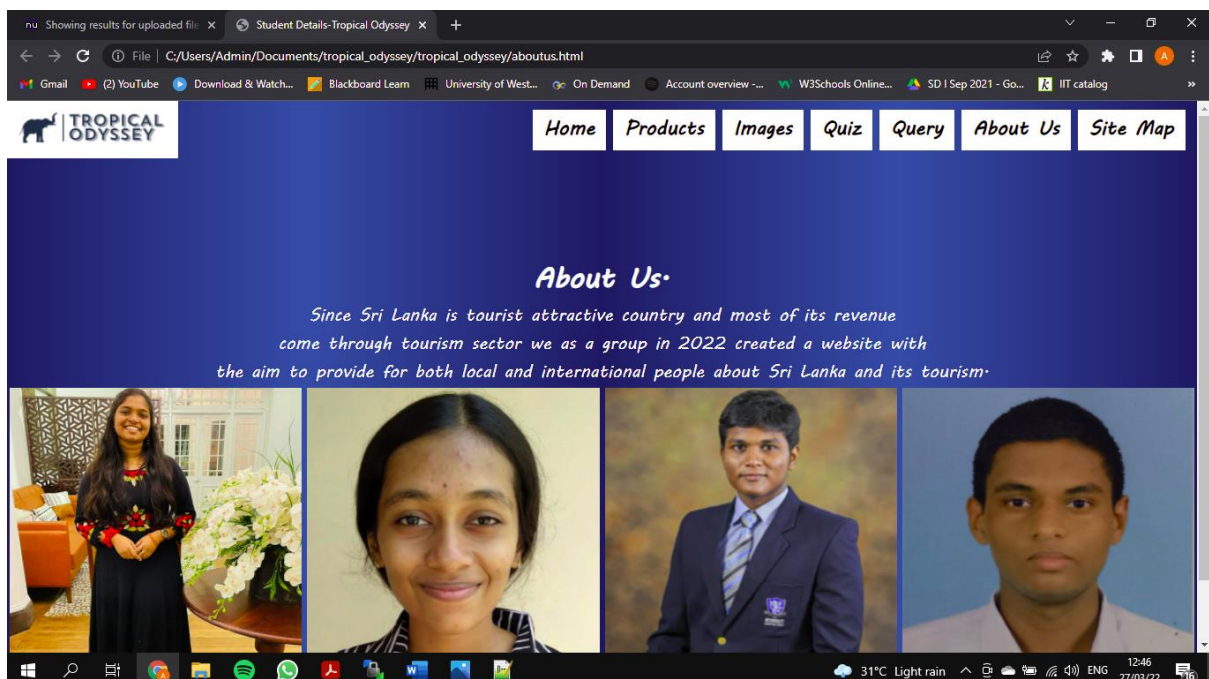
/*Styling for the top button*/
#myBtn {
    display: none;
    position: fixed;
    bottom: 20px;
    right: 30px;
    z-index: 99;
    font-size: 18px;
    border: none;
    outline: none;
    background-color:#aaa;
    color: white;
    cursor: pointer;
    padding: 15px;
    border-radius: 4px;
}

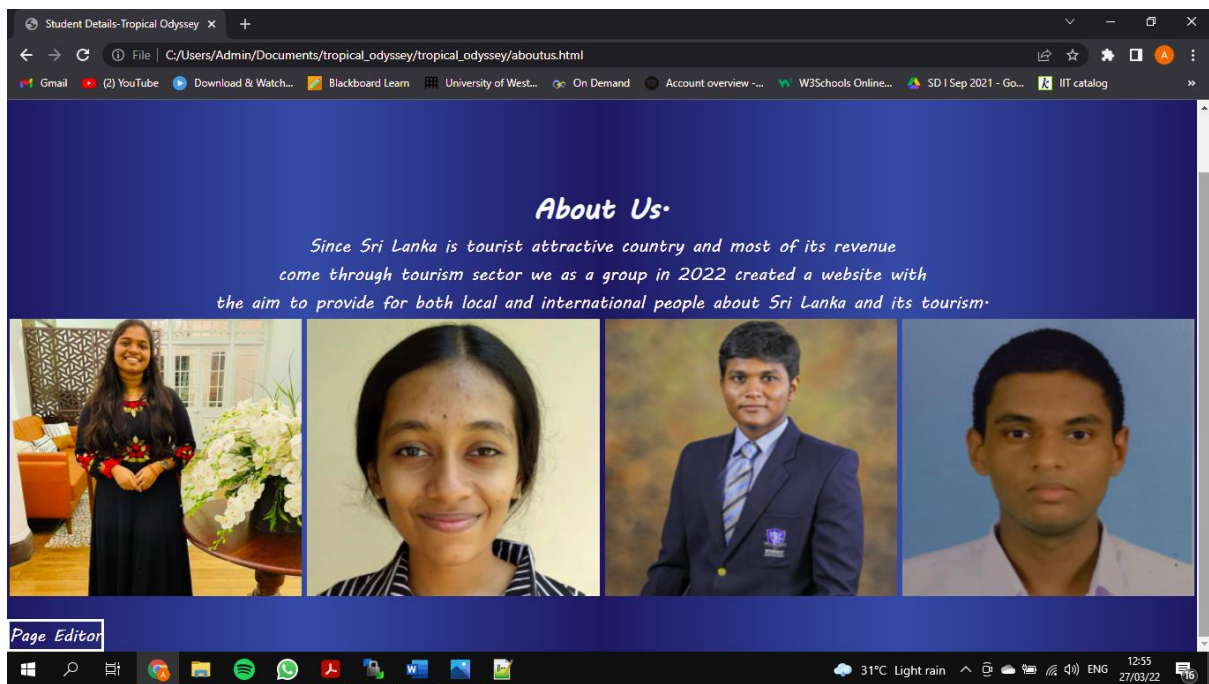
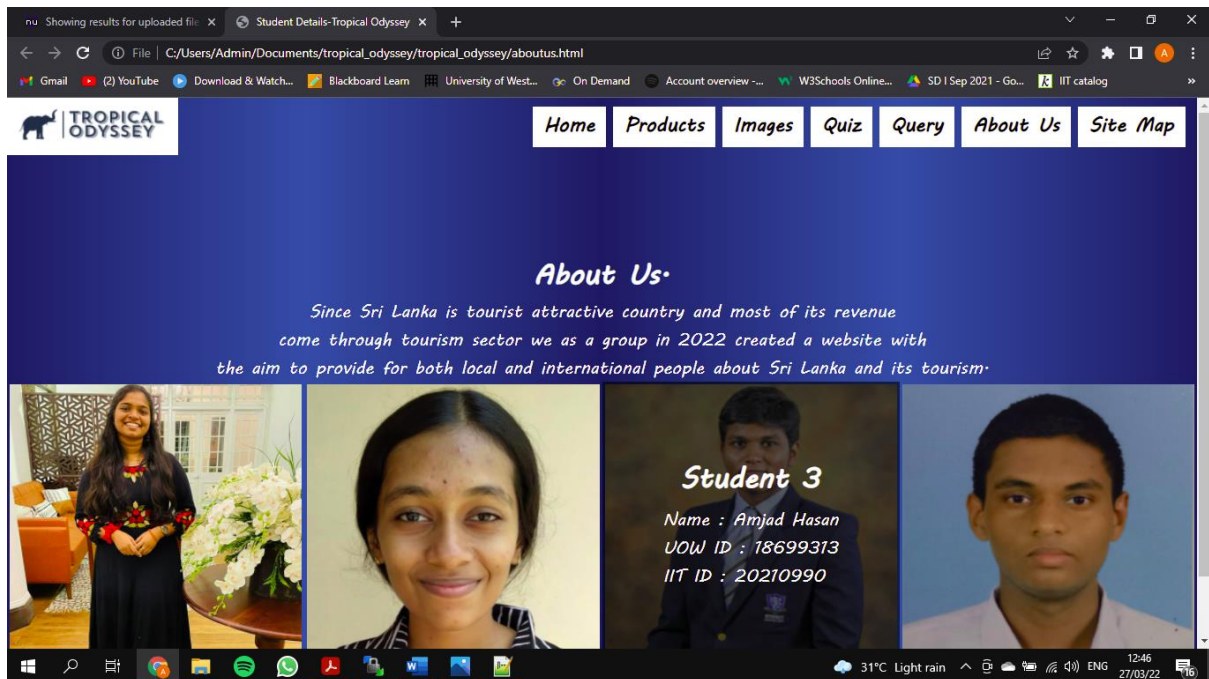
#myBtn:hover {
    background-color: #ccc;
}

```

## Appendix B: Screenshots

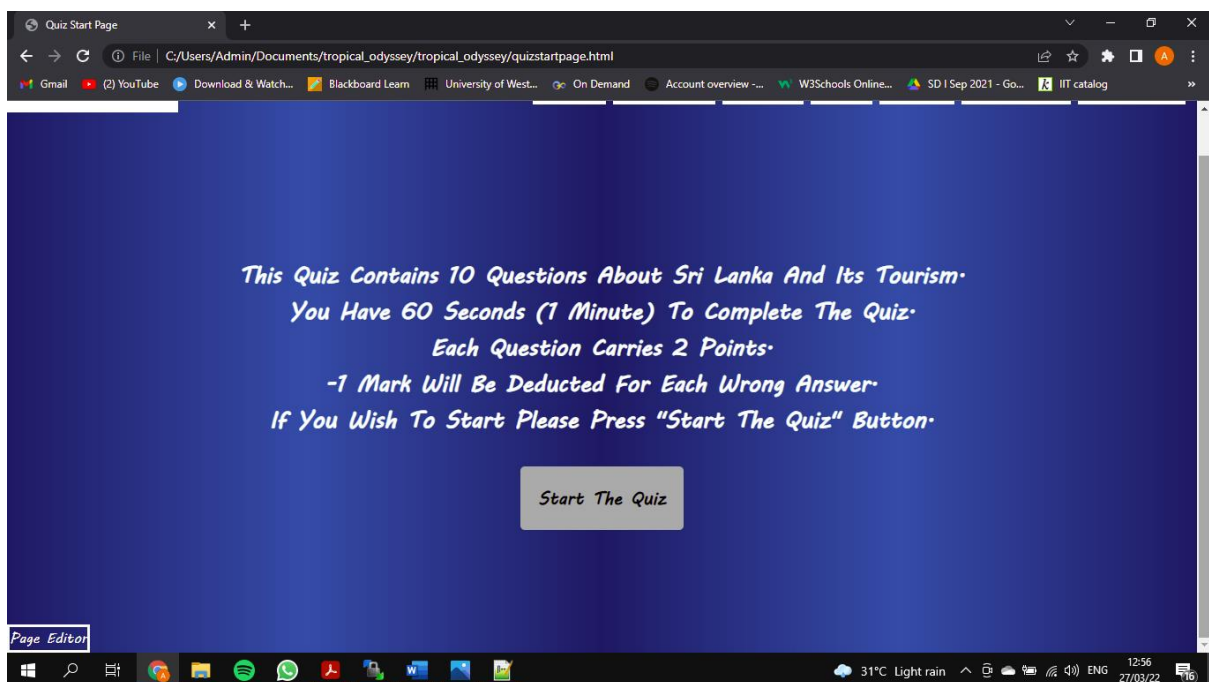
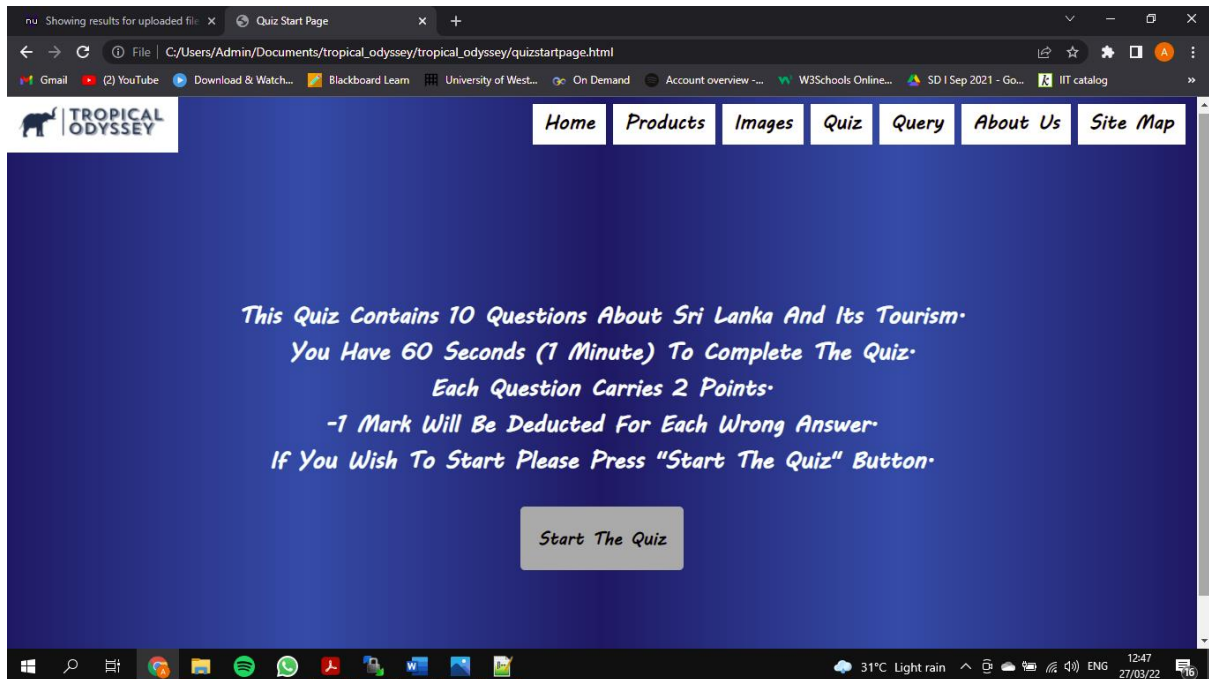
### aboutus.html







## quizstartpage.html



## quiz.html

Quiz Page-Tropical Odyssey

Home Products Images Quiz Query About Us Site Map

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**Good Luck!**

Q1. Which year had the highest tourism rate in Sri Lanka?

- 2016
- 2017
- 2018
- 2019

Q2. What is the capital city of Sri Lanka?

- Sri Jayawardanapura Kotte
- Jaffna
- Sigiriya
- Gampaha

Q3. What is the national fruit of Sri Lanka?

- Mango
- Jackfruit
- Apple
- Banana

Q4. How many districts are there in Sri Lanka?

- 22
- 23
- 24
- 25

Q5. Which animal appears on the flag of Sri Lanka?

- Tiger
- Lion
- Panther
- Cheetah

Q6. When did Sri Lanka receive independence?

- 4th February 1948
- 4th February 1949
- 4th February 1958
- 4th February 1959

54

Top



48

Q8- Which currency is used in Sri Lanka?

- USD
- AED
- INR
- LKR

Q9-What is the tallest mountain in Sri Lanka?

- Adam's Peak
- Kirigalpotha
- Pidurutalagala
- Thotupola Kanda

Q10- What is the largest city in Sri Lanka?

- Anuradhapura
- Kandy
- Colombo
- Kegalle

Done Restart Top

Page Editor

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Incorrect Answer! Correct Answer is LKR.

Q9-What is the tallest mountain in Sri Lanka?

- Adam's Peak
- Kirigalpotha
- Pidurutalagala
- Thotupola Kanda

Incorrect Answer! Correct Answer is Pidurutalagala.

Q10- What is the largest city in Sri Lanka?

- Anuradhapura
- Kandy
- Colombo
- Kegalle

Incorrect Answer! Correct Answer is Anuradhapura

Your result: 0/20- It took you 14 seconds to complete.  
You got 0 answers correct and 10 answers wrong!  
If you wish to restart the quiz then please press 'Restart' button.

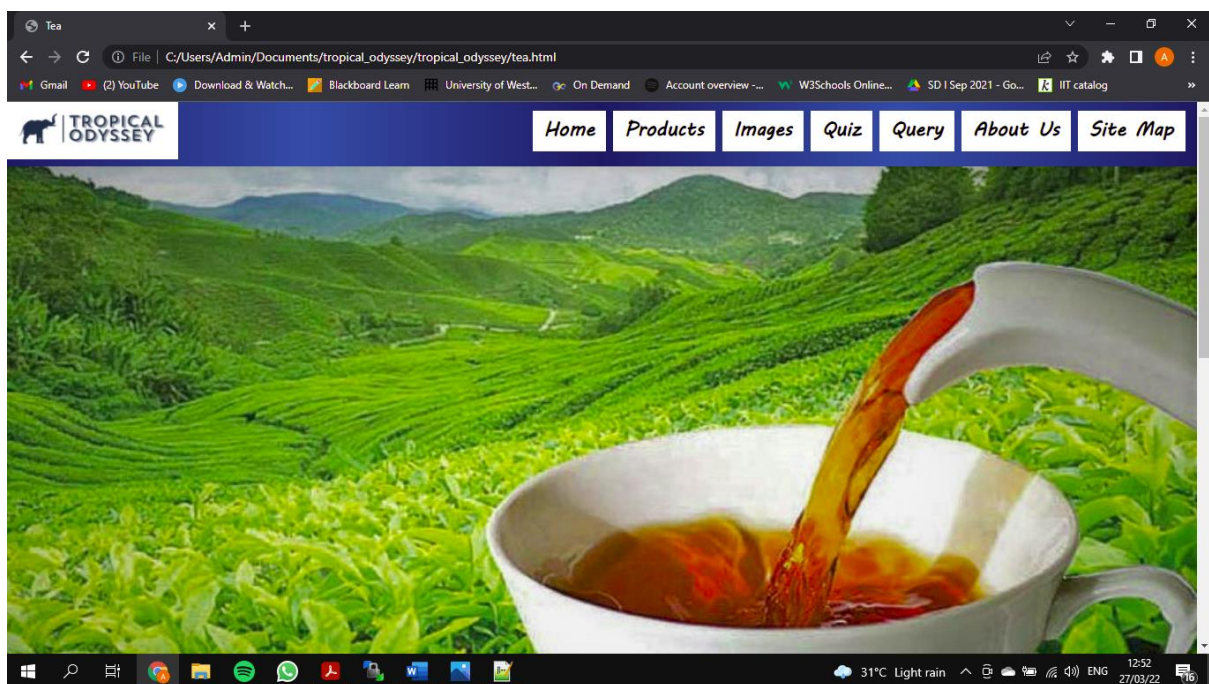
Done Restart Top

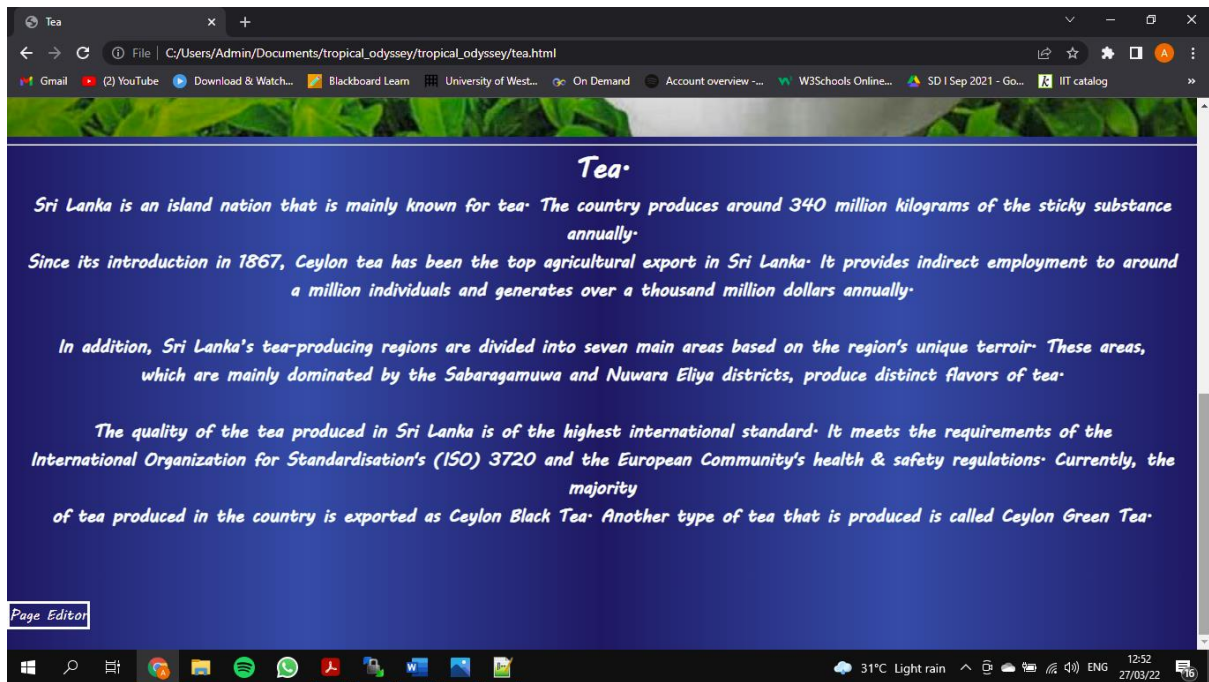
Page Editor

## amjad\_page\_editor.html

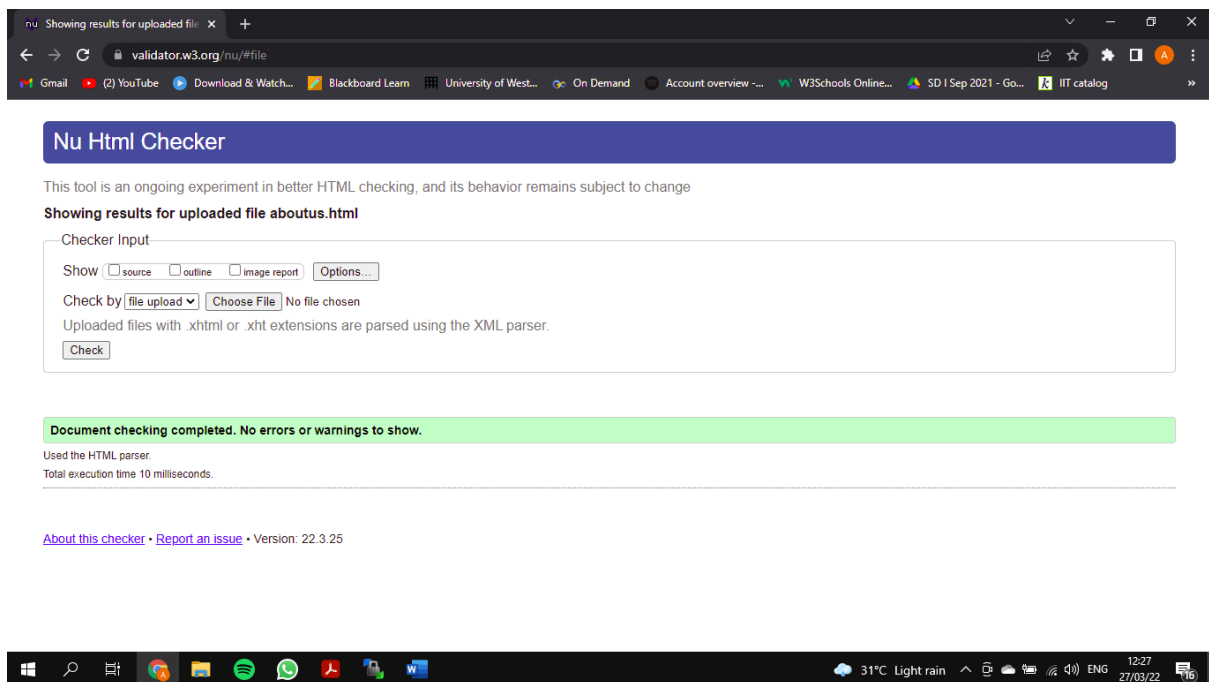


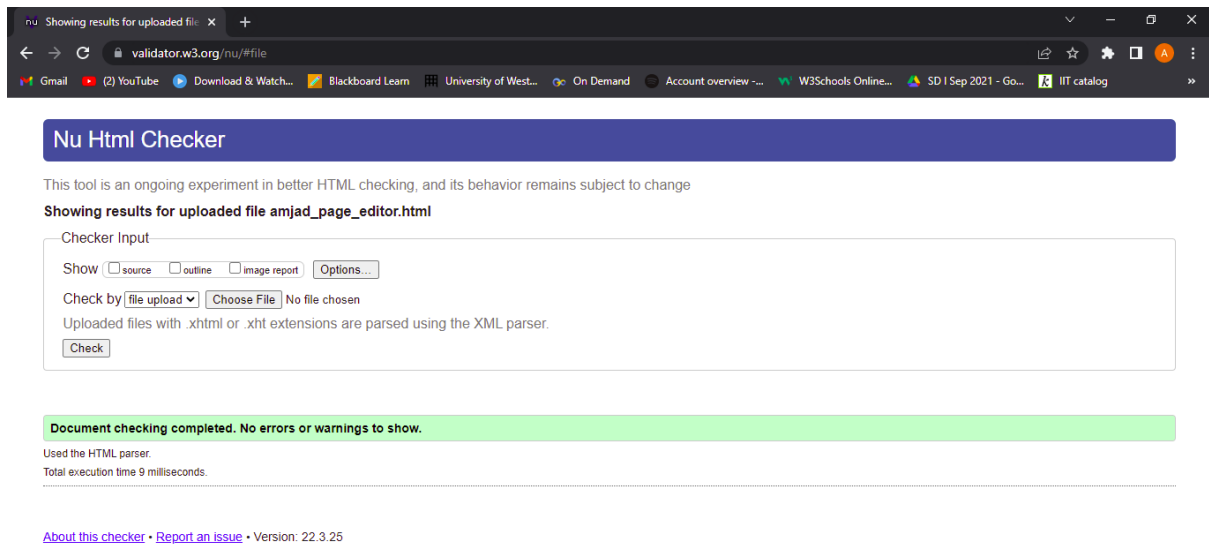
## tea.html





## Appendix C: Screenshots - Webpage Validation Evidence





Showing results for uploaded file: X +

validator.w3.org/nu/#file

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## Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

**Showing results for uploaded file amjad\_page\_editor.html**

Checker Input

Show ☐ source ☐ outline ☐ image report [Options...](#)

Check by [file upload](#) [Choose File](#) No file chosen

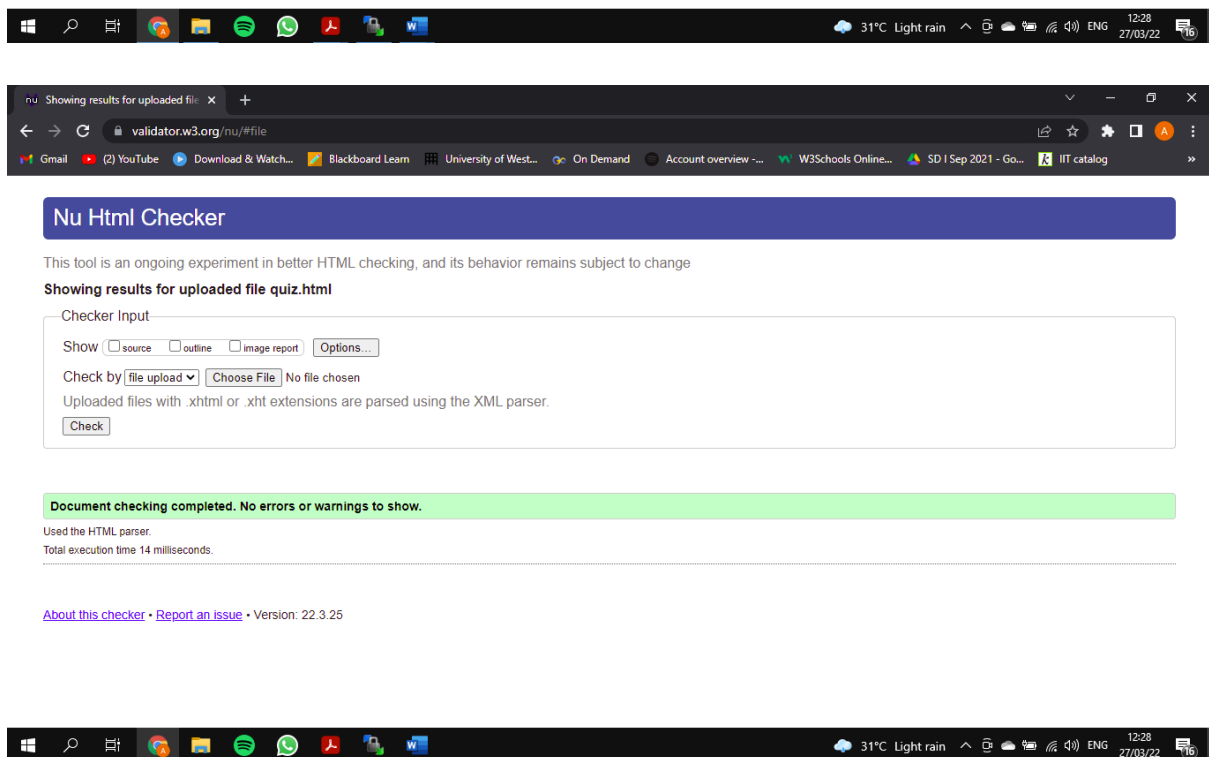
Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

[Check](#)

**Document checking completed. No errors or warnings to show.**

Used the HTML parser.  
Total execution time 9 milliseconds.

[About this checker](#) • [Report an issue](#) • Version: 22.3.25



Showing results for uploaded file: X +

validator.w3.org/nu/#file

Gmail (2) YouTube Download & Watch... Blackboard Learn University of West... On Demand Account overview ... W3Schools Online... SD I Sep 2021 - Go... IIT catalog

## Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

**Showing results for uploaded file quiz.html**

Checker Input

Show ☐ source ☐ outline ☐ image report [Options...](#)

Check by [file upload](#) [Choose File](#) No file chosen

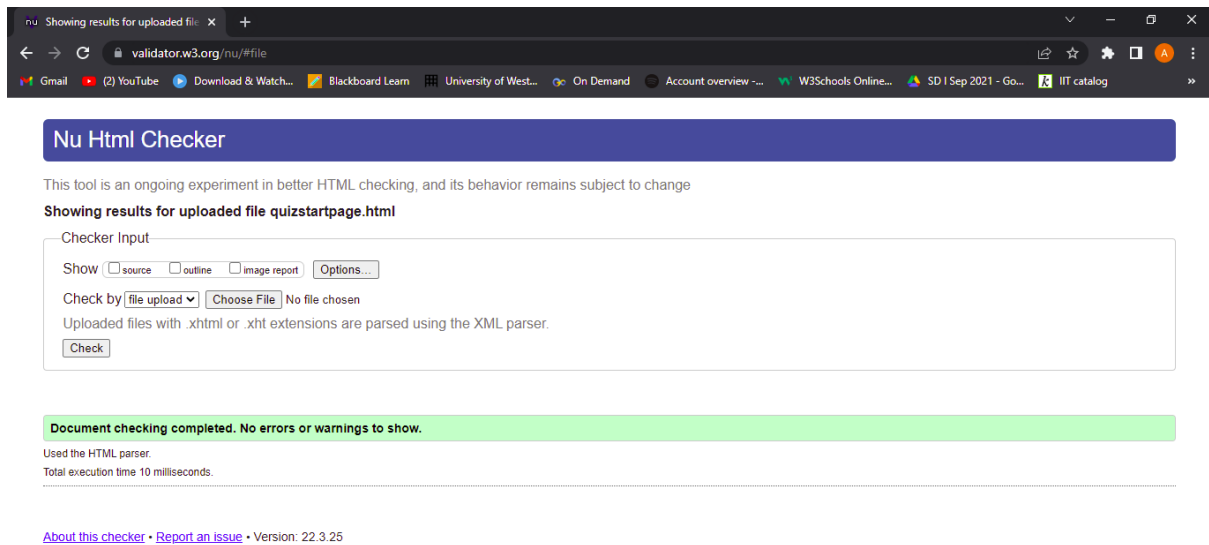
Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

[Check](#)

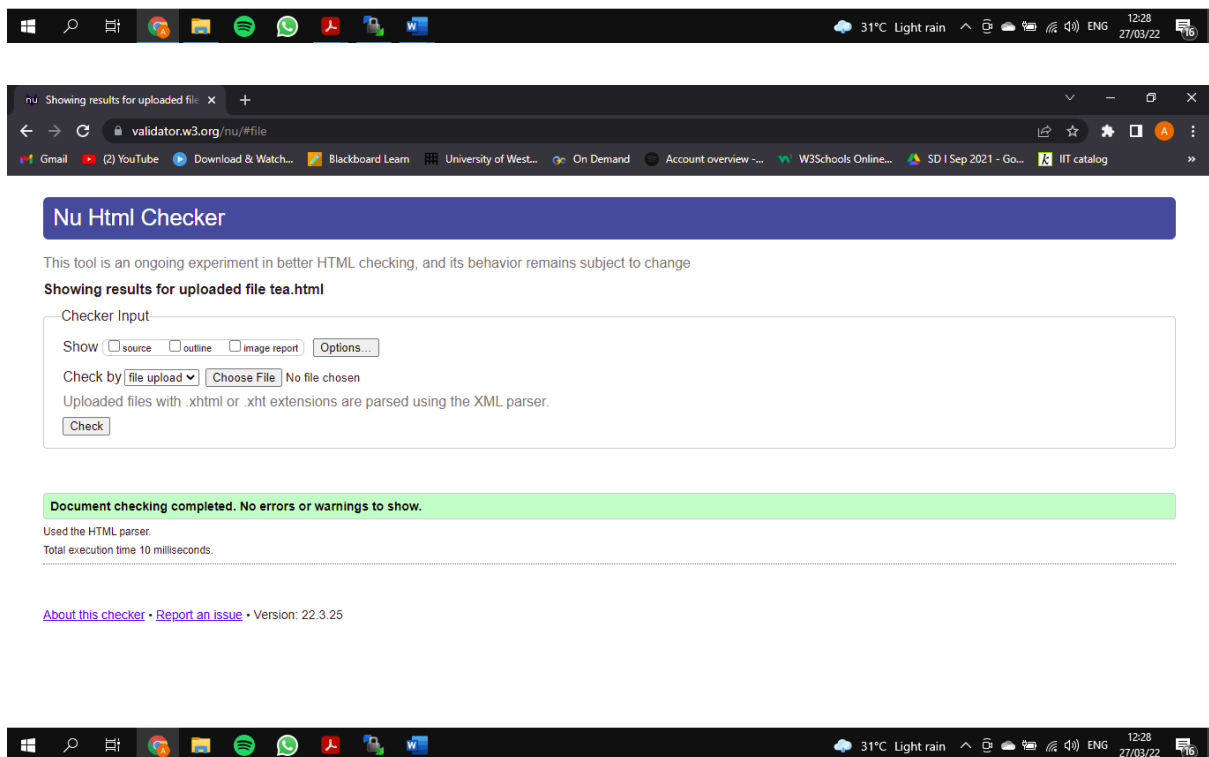
**Document checking completed. No errors or warnings to show.**

Used the HTML parser.  
Total execution time 14 milliseconds.

[About this checker](#) • [Report an issue](#) • Version: 22.3.25



The screenshot shows the Nu Html Checker interface in a web browser. The browser's address bar displays 'validator.w3.org/nu/#file'. The page title is 'Nu Html Checker'. Below the title, a message states: 'This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change'. The main heading is 'Showing results for uploaded file quizstartpage.html'. Under 'Checker Input', there are options to 'Show' (source, outline, image report) and a 'Check' button. A message indicates 'Check by file upload' and 'No file chosen'. Below this, it says 'Uploaded files with .html or .xhtml extensions are parsed using the XML parser.' A green banner at the bottom of the checker input section states 'Document checking completed. No errors or warnings to show.' Below this, it says 'Used the HTML parser.' and 'Total execution time 10 milliseconds.' At the very bottom, there are links for 'About this checker' and 'Report an issue', and the version number 'Version: 22.3.25'.



This screenshot is identical to the one above, showing the Nu Html Checker interface. The browser's address bar displays 'validator.w3.org/nu/#file'. The page title is 'Nu Html Checker'. Below the title, a message states: 'This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change'. The main heading is 'Showing results for uploaded file tea.html'. Under 'Checker Input', there are options to 'Show' (source, outline, image report) and a 'Check' button. A message indicates 'Check by file upload' and 'No file chosen'. Below this, it says 'Uploaded files with .html or .xhtml extensions are parsed using the XML parser.' A green banner at the bottom of the checker input section states 'Document checking completed. No errors or warnings to show.' Below this, it says 'Used the HTML parser.' and 'Total execution time 10 milliseconds.' At the very bottom, there are links for 'About this checker' and 'Report an issue', and the version number 'Version: 22.3.25'.

## Appendix D: Individual Statement

Student Name:	Amjad Hasan Umerthambi	Student Id:	20210990
State what tasks you carried out in the project.			
My student role was 3 therefore I created a page called 'About Us' using HTML and CSS for rollover effect. And I created another page called 'Quiz Start Page' and 'Quiz' page using HTML and JavaScript.			
State what you enjoyed and did not enjoy about teamwork.			
Through this coursework I had the chance to meet new friends and to work with them which was enjoyable. However, what I did not enjoy was there was lack of communication due to online meetings.			
State what you learnt about teamwork.			
To share opinions and listen to others' opinions and do which is convenient and satisfiable for others.			
State what skills you gained/learnt from undertaking the project.			
I got the chance to learn more on JavaScript and researching skills.			
State any strengths about yourself that emerged whilst undertaking the project.			
I am good at giving opinions which was helpful for myself and others.			
State any weaknesses about yourself that emerged whilst undertaking the project.			
Explaining my work for others was my weakness.			
State how you would do things better if you were to undertake the project again.			
I would start the work bit earlier and finish my duty so that no time will be wasted and no need to panic close to deadline.			
Additional general or project specific comments:			
Through this group project I gained more knowledge on HTML, CSS and JavaScript. Moreover, since it was my first project as a group it taught me a lot on how to work as a group.			