

Web Design and Development 4COSC011W

Report

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Group Number: Group 3
Student Role: Student 2

Link(s) to WebSite

URL: <https://w1810599.users.ecs.westminster.ac.uk/>

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1. Introduction

2. The topic of the website which has made by Group 03 is “Astro KIDS” which mainly targets the students in the age category of 8 – 15 years who are interested in Astronomy.
3. There are four members in Group 03. The student names, student ID numbers of them, role of each team member and the main tasks which were allocated to each role are mentioned below.

Student Name	Student ID Number	Role of The Student	Main Tasks
Tharushi Kaushani	W1810819 (20201235)	Student 1	Presentation Page Buy products
Loganathan Bhavaneetharan	W1810599 (20201212)	Student 2	Main Page & External CSS Query Form
Peshala Perera	W1810821 (20201256)	Student 3	Quiz Student details
Shewoni Amarosa	W1810812 (20201230)	Student 4	Diagram (SVG) Thumbnail Images

2. Technical Discussion

As the “Student 2” in the team, I was the one who was allocated to develop the Main Page & External CSS, the Query Form Section and Page Editor Page of mine.

Status of each task which are allocated to Student 2

Task	Status
Main Page	Completed
External CSS	Completed
Query Form	Completed
Page Editor Page	Completed

Main Page

In our Coursework specifications it says, “Your Main page should be designed so that the user can access several parts of the site. The links on your main page should look like buttons and have a hover effect. This should be created using CSS.”

As mentioned, I created our main page with HTML & CSS additionally, I used JavaScript for Navigation purposes.

The main page contains three parts which are.

1. top navigation bar (This bar can be seen in all pages except page editors & presentation page)
2. content (body part where the content of the main page is displayed)
3. footer (This can be seen in all pages)

1. Top navigation bar

A sample pic of top navigation bar:



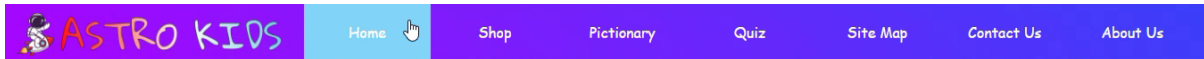
This bar contains a logo and 7 main links to the pages, Pictionary contains to sub links.

OUT LOGO =>

I created the logo using photoshop and the font used for that was “Gloria Hallelujah” The logo colors are like our page colors. The top bar background has a gradient color.

```
.menu {
  background: #373DFA;
  background: linear-gradient(45deg, #a801ff, #373DFA);
  height: 64px;
}
```

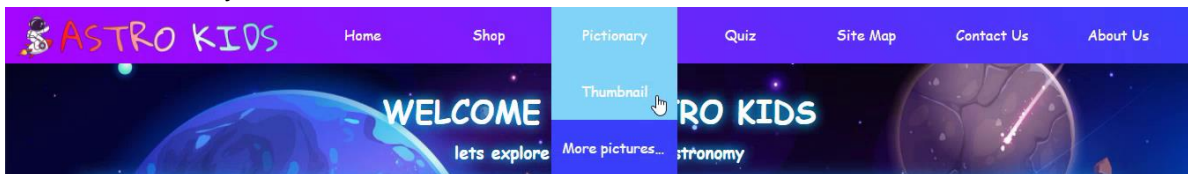
This CSS includes the code for the gradient color and another color property acts as a backup if the gradient does not work.



```
.main-menu > .menu-item:hover {
  background: #81D4FA;
}
.menu-item a {
  overflow: hidden;
  white-space: nowrap;
  text-overflow: ellipsis;
  display: block;
  color: #FFF;
}
```

Here you can see the hover effect has a background color change and each link has his own color and text-overflow as ellipsis which is showing (...) when text exceeds the margin

To increase the ease of navigation, I added some css animation which is used to open sub links in Pictionary.



```
.sub-menu .menu-item {
  padding: 12px 0;
  background: #373DFA;
  opacity: 0;
  transform-origin: bottom;
  animation: enter 0.2s ease forwards;
}
@keyframes enter {
  from {
    opacity: 0;
    transform: scaleY(0.98) translateY(10px);
  }
  to {
    opacity: 1;
    transform: none;
  }
}
.sub-menu .menu-item:nth-child(1) {
  animation-duration: 0.2s;
  animation-delay: 0s;
}
.sub-menu .menu-item:nth-child(2) {
  animation-duration: 0.3s;
  animation-delay: 0.1s;
}
```

The animation reveals the two sub links with a 0.1s delay, for the animation I referred https://www.w3schools.com/cssref/css3_pr_animation-fill-mode.asp “@Keyframes” controls the motion changes of the animation.

The content page has the Welcome title of our page and a subtitle. Both has the same glowing effect which is used throughout our website.

```
.glows {
  animation: glow .5s infinite alternate;
}
@keyframes glow {
  to {
    text-shadow: 0 0 15px #018EF5, 0 0 15px #00FFFF;
  }
}
```

The glowing animation repeats every 0.5s so this will give us the glowing effect we need. Link I referred for text shadow https://www.w3schools.com/cssref/css3_pr_text-shadow.asp. The animation happens for infinite times.

For the content I added some sections which contains some pictures related to astronomy. But to make it interesting and helpful for the users I included the small description for every picture in their back side. So, when we hover over the picture their respective description will be shown and If you click on a picture the you will be redirected to the page which is related to the content. I used CSS transform property to achieve the hover effect & I used JavaScript for the page navigation (This JavaScript is the same script which we used for our sitemap navigation).

```
.flip-container:hover .flipper {
  transform: rotateY(180deg);
  cursor: pointer;
}
.flipper {
  transition: 0.5s;
  transform-style: preserve-3d;
  position: relative;
}
.front {
  transform: rotateY(0deg);
}

.back {
  transform: rotateY(180deg);
}
.front,
.back {
  backface-visibility: hidden;
  position: absolute;
}
```

Here I am making use of transform property which helps us to move an element vertically and horizontally. Here I am transforming mine vertically using rotateY();

The link I referred to study backface-visibility

https://www.w3schools.com/cssref/css3_pr_backface-visibility.asp

The link I referred to study transform style.

https://www.w3schools.com/cssref/css3_pr_transform-style.asp

A sample pic of our contents:



```
.image {
  animation: zoom .8s infinite alternate;
  transform-origin: center;
  box-shadow: 0px 0px 20px 5px #2196f3;
}
@keyframes zoom{
  to {transform: scale(1.1); }
}
```

This animation is used to get the infinite zooming effect of our images. The link I referred for this https://www.w3schools.com/css/css3_animations.asp

3. Footer

Page Editor: Loganathan Bhavaneetharan
Copyright © All rights reserved.

The footer contains the link for the page editor. This footer has a gradient background and a link for the student page.

```
#footer {
  padding: 10px;
  text-align: center;
  color: white;
  background-color: #5258FA;
  background: linear-gradient(45deg, #0006ff, #a801ff);
  bottom: 0;
}
```

The `bottom: 0;` property will make sure that the footer stays at the bottom.

Full view of the home page:



External CSS

I have worked on all the CSS for our site. I created main.css / home.css / contact_us.css on my own and for other CSS files I have contributed according to the page editor's wish.

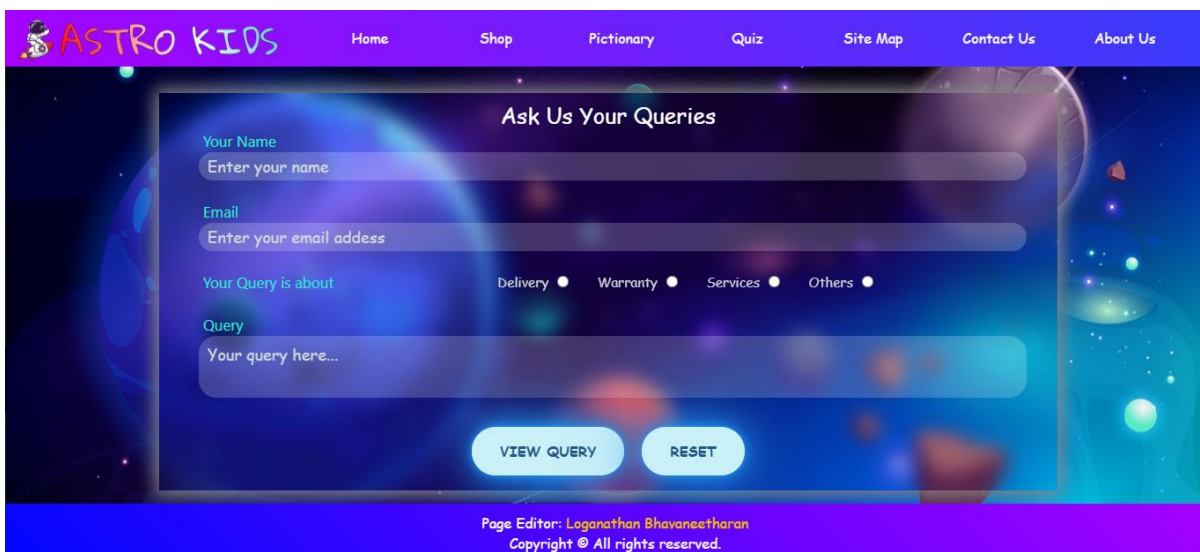
Query Form (Contact US)

As mentioned in Coursework Specifications, our website should contain a form to allow people to ask queries related to the topic and the following features should be there in our Query Form section.

- input fields for users to enter their details (name, email address)
- a text area to enter their query detail.
- a way to select the theme of the query (using radio buttons or select). (minimum of 3)
- a 'view query' button. When this button is clicked, check, using JavaScript, that the user has filled in the compulsory fields - 'name', 'email address', 'query subject' and 'query details'. Do NOT use HTML5 validation for this part. If some fields are missing, use a popup message (alert) to let the user know which fields are missing.
- If all the required fields are filled in, the name, email address, query subject, and the query detail from the form should be displayed on the page (using innerHTML) in a summary that will include all these details (the name, email address, query subject and the query details). With two new buttons: Edit and Send.
- When the user presses **edit**, the displayed details disappear, and this is replaced with the initial form which reappears with the information filled in. If they press **send**, the displayed details disappear also, and the form is sent by email.

I have completed all the above requirements. Additionally, I have added a reset button.

Sample picture:

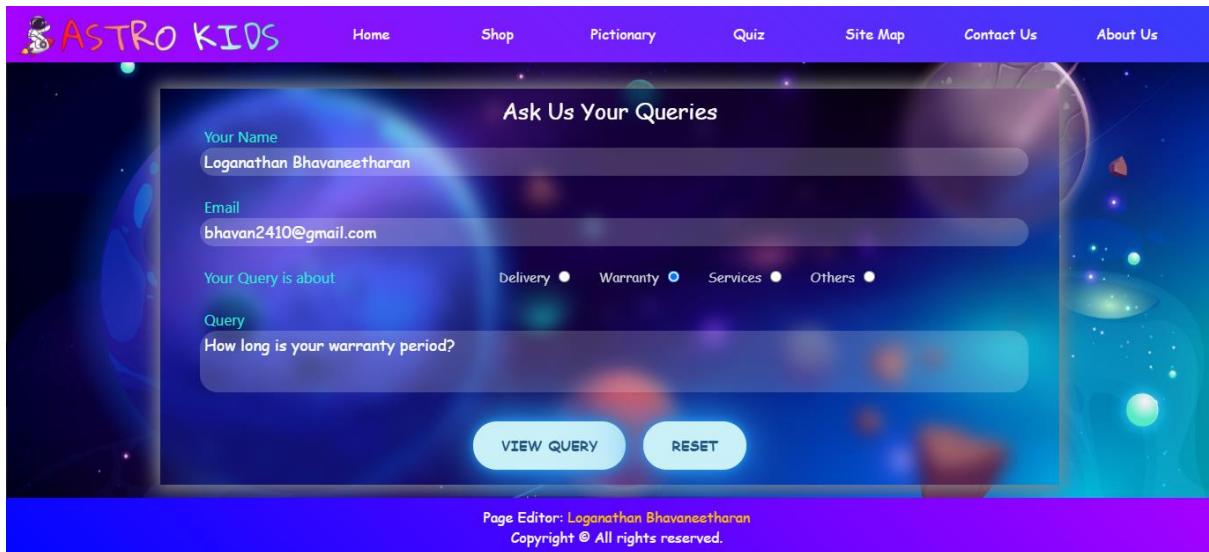


The screenshot shows the 'ASTRO KIDS' website with a navigation bar containing links: Home, Shop, Pictionary, Quiz, Site Map, Contact Us, and About Us. The main content area features a form titled 'Ask Us Your Queries' with a space-themed background. The form includes the following fields and elements:

- Your Name:** A text input field with the placeholder 'Enter your name'.
- Email:** A text input field with the placeholder 'Enter your email address'.
- Your Query is about:** A row of four radio buttons labeled 'Delivery', 'Warranty', 'Services', and 'Others'.
- Query:** A large text area with the placeholder 'Your query here...'.
- Buttons:** Two buttons at the bottom, 'VIEW QUERY' and 'RESET'.

At the bottom of the page, a footer contains the text: 'Page Editor: Loganathan Bhavaneetharan' and 'Copyright © All rights reserved.'

When the user inputs valid inputs the valid details and press on send button the page will show the details on the same page with two new buttons “SEND” & “EDIT” when the user press Send button a new tab will open with all the entered details filled in and ready to send. If the user presses edit button the previous page appears with all the details filled in.



ASTRO KIDS Home Shop Pictionary Quiz Site Map Contact Us About Us

Ask Us Your Queries

Your Name
Loganathan Bhavaneetharan

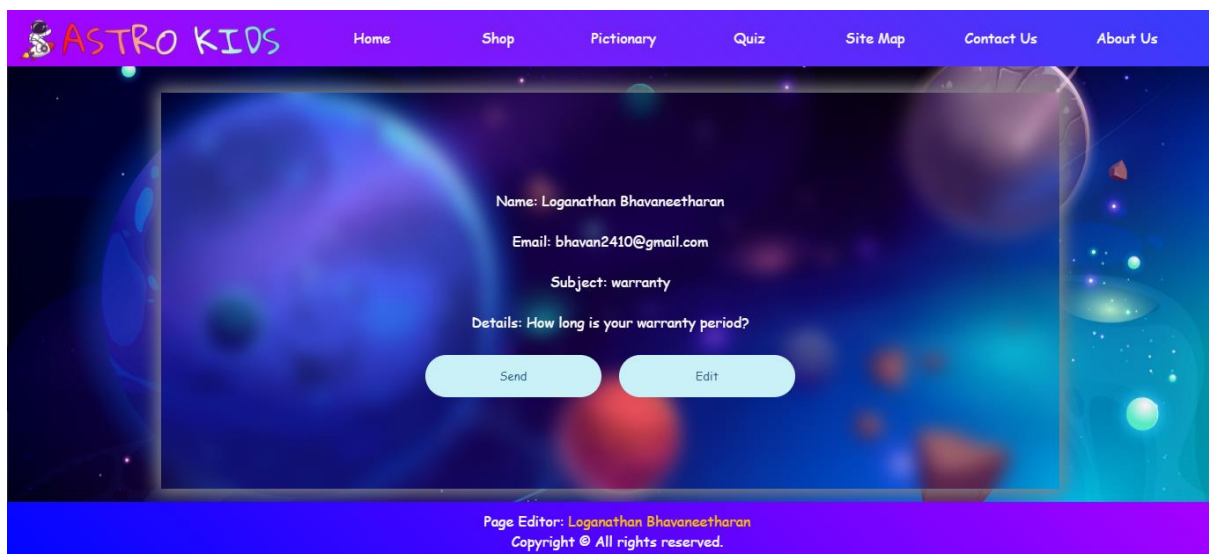
Email
bhavan2410@gmail.com

Your Query is about
☐ Delivery ☒ Warranty ☐ Services ☐ Others

Query
How long is your warranty period?

[VIEW QUERY](#) [RESET](#)

Page Editor: Loganathan Bhavaneetharan
Copyright © All rights reserved.



ASTRO KIDS Home Shop Pictionary Quiz Site Map Contact Us About Us

Name: Loganathan Bhavaneetharan

Email: bhavan2410@gmail.com

Subject: warranty

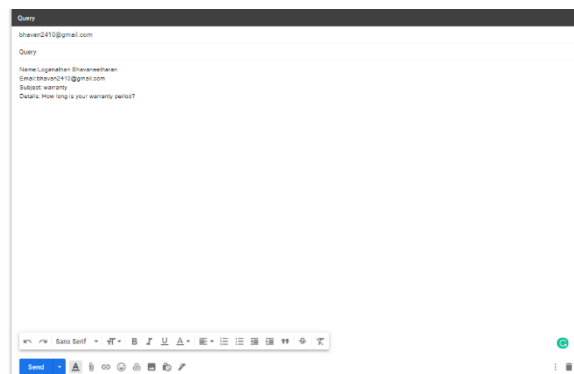
Details: How long is your warranty period?

[Send](#) [Edit](#)

Page Editor: Loganathan Bhavaneetharan
Copyright © All rights reserved.

This page says
Sending email to bhavan2410@gmail.com

[OK](#)



Query

bhavan2410@gmail.com

Query

Name: Loganathan Bhavaneetharan
Email: bhavan2410@gmail.com
Subject: warranty
Details: How long is your warranty period?

Send

I am using the `getelementByld` method to get the ask your queries element and saving its `innerHTML` to a variable. Later by a function called `viewQuery()` I'm validating the inputs and finally showing the next page. I have used input fields for name, email, query subject and textarea for query.

I am getting the values of input fields and storing them to variables (name, email, query, subject) after that I am checking whether the input field is empty or not by using (`== ""`) but before that I am clearing the whitespaces by `.trim()` function. The user will get a alert if any details are wrong.

```
name = document.form.name.value;
email = document.form.email.value;
query = document.form.message.value;
subject = document.form.subject.value;

if(checkName(name.trim())){
    alert("Name is invalid");
} else if(query.trim() == ""){
    alert("Query is invalid");
} else if(subject.trim() == ""){
    alert("Please select your subject");
} else if (checkEmail(email.trim())) {
    alert("Email is invalid");
}
```

If all the entered details are correct I am displaying those details with two extra button on the page. I used `innerHTML` to show the details. I used `.createElement("BUTTON");` to create buttons. Finally I am appending it to the page using `.appendChild();` function.

```
elem.innerHTML = `

Name: ${name} <br><br> Email: ${email} <br><br>
    Subject: ${subject} <br><br> Details: ${query} </p>`;

var send_btn = document.createElement("BUTTON");
send_btn.innerHTML = "Send";
send_btn.classList.add("send_btn");

var edit_btn = document.createElement("BUTTON");
edit_btn.innerHTML = "Edit";
edit_btn.classList.add("edit_btn");

elem.appendChild(send_btn);
elem.appendChild(edit_btn);


```

I am filing the previous details in the field if user press edit button.

```
edit_btn.addEventListener("click", function() {
    elem.innerHTML = details;
    document.form.name.value = name;
    document.form.email.value = email;
    document.form.message.value = query;
    document.form.subject.value = subject;
});
```

I have added validations to above text fields using JavaScript such as,

- If the user enters an invalid email address like an email without "@" or without "." Or if it is empty, it shows a popup saying "Email is invalid".



I have used regular expressions for that. The link I referred to validate email

<https://www.w3resource.com/javascript/form/email-validation.php>.

```
// function to validate email using regular expression
// function returns true if email is in valid format
function checkEmail(email) {
    let pattern = /^(^<>()\[ \] \. , ; : \s @ " ) + ( \. [ ^ <> ( ) \[ \] \. , ; : \s @ " ] + ) * ) | ( " . + " ) @ ( ( \[ [ 0 - 9 ] { 1 , 3 } \. [ 0 - 9 ] { 1 , 3 } \. [ 0 - 9 ] { 1 , 3 } \. [ 0 - 9 ] { 1 , 3 } \) | ( ( [ a - z A - Z \ - 0 - 9 ] + \. ) + [ a - z A - Z ] { 2 , } ) ) $ / ;
    return !pattern.test(email);
}
```

- If the user enters a not valid name like a name with numbers and special characters (except -) or if it is empty, it shows a popup saying "name is invalid".

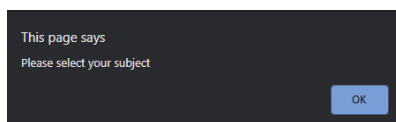


I have used regular expressions for that. The link I referred to validate name

<https://www.codexworld.com/how-to/validate-first-last-name-with-regular-expression-using-javascript/>

```
// function to validate name using regular expression
// function returns true if name is in correct format
function checkName(name) {
    let pattern = /^[ a-zA-Z \- \'] + $ / ;
    return !pattern.test(name);
}
```

- Similarly I am checking to the query and query subjects are not empty. If these are empty a popup alert will be shown



*** Additionally I have used the below code to send the email

“%0D%0A” is used to print each detail in separate line. “_blank” opens gmail on a new tab.

```

alert("Sending email to " + email);
let mail_query = `mailto:${email}?
    subject=Query&body=Name:${name}%0D%0A
    Email:${email}%0D%0A
    Subject:${subject}%0D%0A
    Details:${query}`;
window.open(mail_query, '_blank');

```

The link I referred for this code <https://stackoverflow.com/questions/22765834/insert-a-line-break-in-mailto-body>

Page Editor

User can visit to Page Editor page by clicking on the name in the footer. In that page all the team members have added their name, student ID number, role and tasks which were allocated. As the rest of the team, I have added the same CSS “Glow” animation to glow the text in each 0.5 seconds. And I created the special student.css for all the student’s pages.



Additional work done.

- I have created the back to top button which was used on three pages.
 - Home page
 - Thumbnail page
 - Products page

```

#top img:hover {
    transform: scale(1.2);
}

```

- I worked on CSS stylings for all the pages since it is my responsibility to handle external CSS.

3. Janet

Janet is the name given to an electronic communications network and associated electronic communications networking services and facilities that support the requirements of education and research communities. The Janet Network Connection Policy determines the eligibility of any organization or individual to have a connection to and use Janet services. Acceptable Use Policy merely defines acceptable and unacceptable use of Janet by those who have been provided with access to Janet services.

In our project 'Astro Kids' all the workings are done by the members themselves and the referred educational materials and media resources have been mentioned in the report itself. The project is educational and does not include any obscene or offensive material. Therefore, our project aligns with the copyright requirements and The Copyright, Designs and Patents Act 1988 is not violated.

The final project is hosted in UOW server, and the production stages took place in group members personal devices. The software that has been used are basic text free and open-source editing software such as Notepad++/ Sublime text community edition and for validation w3 resource validator, for the styling and code indentations hilite.me software was used. Third party is being involved with their personal email.

Under the Data Protection Act 1998, the accuracy of the data subjects is ensured by the data controllers who are the group members; by obtaining the necessary data only from trusted resources and ensuring that the data is only been used for above mentioned educational purpose only.

Therefore, our team has met the legal requirements and policies of JISC.

References

https://www.w3schools.com/cssref/pr_pos_overflow.as

https://www.w3schools.com/cssref/css3_pr_text-shadow.asp

https://www.w3schools.com/cssref/pr_class_display.asp

<https://developer.mozilla.org/en-US/docs/Web/CSS/backdrop-filter>

https://www.w3schools.com/cssref/css_inherit.asp

https://www.w3schools.com/cssref/pr_dim_line-height.asp

[https://developer.mozilla.org/en-US/docs/Web/CSS/transform-function/rotateY\(\)](https://developer.mozilla.org/en-US/docs/Web/CSS/transform-function/rotateY())

https://www.w3schools.com/cssref/css3_pr_transform-style.asp

https://www.w3schools.com/css/css3_animations.asp

https://www.w3schools.com/cssref/css3_pr_backface-visibility.asp

<https://stackoverflow.com/questions/22765834/insert-a-line-break-in-mailto-body>

<https://www.w3resource.com/javascript/form/email-validation.php>

<https://www.codexworld.com/how-to/validate-first-last-name-with-regular-expression-using-javascript/>

Apart from these I have used our lecture notes as a reference while creating the site.

Appendices

Appendix A: Code

Home.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Astro Kids</title>
<meta charset="UTF-8">
<!-- STYLES -->
<link rel="stylesheet" href="css/home.css"/>
<link rel="stylesheet" href="css/main.css"/>
</head>
<body>
<!--TOP NAVIGATION BAR -->
<nav class="menu">
<div id="logo">

</div>
<ol class="main-menu">
<li class="menu-item"><a href="home.html">Home</a></li>
<li class="menu-item"><a href="products.html">Shop</a></li>
<li class="menu-item">
<a href="#">Pictionary</a>
<ol class="sub-menu">
<li class="menu-item"><a href="thumbnails.html">Thumbnail</a></li>
<li class="menu-item"><a href="more_pictures.html">More pictures for you</a></li>
</ol>
</li>
<li class="menu-item"><a href="quiz.html">Quiz</a></li>
<li class="menu-item"><a href="site_map.html">Site Map</a></li>
<li class="menu-item"><a href="contact_us.html">Contact Us</a></li>
<li class="menu-item"><a href="about_us.html">About Us</a></li>
</ol>
</nav>
<!--PAGE CONTENT -->
<div id="content">
<section class="wrapper special">
<div>
<header>
<h1 class="glows">WELCOME TO ASTRO KIDS</h1>
<h3 class="glows" id="title_text">lets explore the world of astronomy</h3>
</header>
<div class="flip-container">
<div class="flipper">
<div class="back">
<div class="article">
<header>
<h3>What is Astronomy?</h3>
</header>
<p>Astronomy is a natural science that studies celestial objects and phenomena. It uses mathematics, physics, and chemistry in order to explain their origin and evolution. Objects of interest include planets, moons, stars, nebulae, galaxies, and comets. Relevant phenomena include supernova explosions, gamma ray bursts, quasars, blazars, pulsars, and cosmic microwave background radiation. More generally, astronomy studies everything that originates outside Earth's atmosphere.</p>
</div>
</div>
</div>
```

```
<div class="front">

</div>
</div>
<div class="flip-container">
<div class="flipper">
<div class="back">
<div class="article">
<header>
<h3>Why we study Astronomy?</h3>
</header>
<p>Who hasn't felt a sense of awe while looking deep into the sky, lit with countless stars on a clear night? Astronomy is a science that seeks to explain everything that we observe in the Universe, from the comets and planets in our own solar system to distant galaxies to the echoes of the Big Bang. By studying the cosmos beyond our own planet, we can understand where we came from, where we are going, and how physics works under conditions which are impossible to recreate on Earth. In astronomy, the Universe is our laboratory!</p>
</div>
</div>
<div class="front">

</div>
</div>
</div>
</div>
</section>

<section class="wrapper special">
<div>
<div class="flip-container" id="shop_text">
<div class="flipper">
<div class="back">
<div class="article">
<header>
<h3>What can you find in our Shop?</h3>
</header>
<p>You can find some amazing products in various categories like posters, Accessories, Fashion in our shop. You select your quantity and add the item to cart. After that you have to go through a simple checkout process where you could provided your details. finally click on Place Order and we'll deliver your order within a week</p>
</div>
</div>
<div class="front">

</div>
</div>
</div>
<div class="flip-container" id="pictionary_text">
<div class="flipper">
<div class="back">
<div class="article">
<header>
<h3>What can you see in pictionary? </h3>
</header>
```

<p>You'll find amazing pictures in our pictures library. The Thumbnail page contains five amazing pictures related to astrology. You can just hover over the picture and it will show all the details about the picture and you can pick your own background color & font color. The more pictures page contains five more images which you will find interesting</p>

```
</div>
</div>
<div class="front">

</div>
</div>
</div>
</div>
</section>
<section class="wrapper special">
<div>
<div class="flip-container">
<div class="flipper" id="quiz_text">
<div class="back">
<div class="article">
<header>
<h3>What is Quiz?</h3>
</header>
<p>You can take a test in our page to check and increase your astronomy knowlegde.
You will notified about your performace at the end of the quiz</p>
</div>
</div>
<div class="front">

</div>
</div>
<div class="flip-container">
<div class="flipper" id="contact_us_text" >
<div class="back">
<div class="article">
<header>
<h3>How can you contact us?</h3>
</header>
<p>You can conact us through email using contact us page. You can fill out your name,
email and the subject that you wished to ask your query and finally your query.
when you click on view query button you will be shown a message containing your
query details then simply press send to send us an mail</p>
</div>
</div>
<div class="front">

</div>
</div>
</div>
</div>
</section>
</div>
```

```
<!--BACK TO TOP-->
<div id="top"><a href="#"></a></div>

<!--FOOTER -->
<footer id="footer">
Page Editor:<a href="student_2.html"> Loganathan Bhavaneetharan</a> <br>
Copyright &copy; All rights reserved.
</footer>

<!-- SCRIPT -->
<script src="js/home.js"></script>
</body>
</html>
```

Home.css

```
.glows {
    animation: glow .5s infinite alternate;
}
@keyframes glow {
    to {
        text-shadow: 0 0 15px #018EF5, 0 0 15px #00FFFF;
    }
}

section {
    padding: 0px 30px;
    text-align: center;
}

header > h1 {
    font-size: 35px;
    color: white;
}

header > h3 {
    color: #2EF3D3;
}

#title_text {
    color: white;
    transform: translateY(-20px);
}

.article {
    padding: 10px;
    width: 520px;
    height: 260px;
    background: rgba(0, 0, 0, 0.4);
    box-shadow: 0px 0px 20px 5px #2196f3;
}
```

```
.article p{
  color: white;
}

.flip-container {
  display: inline-grid;
}

.flip-container:hover .flipper {
  transform: rotateY(180deg);
  cursor: pointer;
}

.flip-container,
.front,
.back {
  height: 350px;
  width: 600px;
}

.flipper {
  transition: 0.5s;
  transform-style: preserve-3d;
  position: relative;
}

.front {
  transform: rotateY(0deg);
}

.back {
  transform: rotateY(180deg);
}

.front,
.back {
  backface-visibility: hidden;
  position: absolute;
}

.image {
  animation: zoom .8s infinite alternate;
  transform-origin: center;
  box-shadow: 0px 0px 20px 5px #2196f3;
}

@keyframes zoom{
  to { transform: scale(1.1); }
}

#footer {
  width: 98.5%;
}
```


Home.js

```
// Navigating to various part of our site
function get_link(id,url) {
    document.getElementById(id).
    addEventListener("click", function() {
        document.location.href = url;
    });
}

get_link("shop_text", "products.html");
get_link("pictionary_text", "thumbnails.html");
get_link("quiz_text", "quiz.html");
get_link("contact_us_text", "contact_us.html");
```

Contact_us.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Astro Kids</title>
<meta charset="UTF-8">
<!-- STYLES -->
<link rel="stylesheet" href="css/contact_us.css"/>
<link rel="stylesheet" href="css/main.css"/>
</head>
<body>
<!--TOP NAVIGATION BAR -->
<nav class="menu">
<div id="logo">

</div>
<ol class="main-menu">
<li class="menu-item"><a href="home.html">Home</a></li>
<li class="menu-item"><a href="products.html">Shop</a></li>
<li class="menu-item">
<a href="#">Pictionary</a>
<ol class="sub-menu">
<li class="menu-item"><a href="thumbnails.html">Thumbnail</a></li>
<li class="menu-item"><a href="more_pictures.html">More pictures for you</a></li>
</ol>
</li>
<li class="menu-item"><a href="quiz.html">Quiz</a></li>
<li class="menu-item"><a href="site_map.html">Site Map</a></li>
<li class="menu-item"><a href="contact_us.html">Contact Us</a></li>
<li class="menu-item"><a href="about_us.html">About Us</a></li>
</ol>
</nav>
```

```
<!--PAGE CONTENT-->
<div id="content">
<div class="container centerElement">
<div class="wrap-form" id="wrap-form">
<form class="query-form" id="form" name="form">
<span class="form-title">Ask Us Your Queries</span>
<div>
<div class="input-container">
<span class="input-label-1">Your Name</span>
<input class="form-input" type="text" name="name" id="name" placeholder="Enter your name">
<span class="input-focus"></span>
</div>

<div class="input-container">
<span class="input-label-1">Email</span>
<input class="form-input" type="text" id="email" name="email" placeholder="Enter your email address">
<span class="input-focus"></span>
</div>
</div>

<div class="input-container">
<div class="form-radio-container">
<span class="input-label-1">Your Query is about </span>
<span class="input-label-2">Delivery</span>
<input class="form-input-rad" type="radio" name="subject" value="delivery">
<span class="input-label-2">Warranty</span>
<input class="form-input-rad" type="radio" name="subject" value="warranty">
<span class="input-label-2">Services</span>
<input class="form-input-rad" type="radio" name="subject" value="services">
<span class="input-label-2">Others</span>
<input class="form-input-rad" type="radio" name="subject" value="others">
</div>
</div>

<div class="input-container">
<span class="input-label-1">Query</span>
<textarea class="form-input" id="query" name="message" placeholder="Your query here..."></textarea>
<span class="input-focus"></span>
</div>

<div class="btn-container centerElement">
<button class="btn" type="button" onclick="viewQuery()" id="view">View query</button>
<button class="btn" type="reset" id="reset">Reset</button>
</div>
</form>
</div>
</div>
</div>

<!--FOOTER -->
<footer id="footer">
Page Editor:<a href="student_2.html"> Loganathan Bhavaneetharan</a> <br>
Copyright &copy; All rights reserved.
</footer>

<!--SCRIPT -->
<script src="js/contact_us.js"></script>
</body>
</html>
```

Contact_us.css

```
#content {
  padding: 30px;
  margin: 0px 145px;
  justify-content: center;
}

.container {
  color: white;
  height: 430px;
  width: 1000px;
  padding: 10px;
  backdrop-filter: blur(10px);
  box-shadow: 0px 0px 20px 5px #888888;
}

.wrap-form {
  background: inherit;
  overflow: hidden;
  padding: 20px 35px 20px 35px;
}

.form-title {
  display: block;
  font-size: 25px;
  color: white;
  text-align: center;
  animation: glow .5s infinite alternate;
}

@keyframes glow {
  to {
    text-shadow: 0 0 15px #018EF5, 0 0 15px #00FFFF;
  }
}

.input-container {
  width: 100%;
  position: relative;
  padding-bottom: 13px;
  margin-bottom: 10px;
  float: left;
}

.input-label-1 {
  float: left;
  font-family: system-ui;
  font-size: 17px;
  color: #2EF3D3;
  line-height: 1.5;
  padding-left: 5px;
}

.input-label-2 {
  font-size: 15px;
  color: #CFD8DC;
  padding-left: 25px;
}
```

```
.form-input {
  display: block;
  width: 100%;
  background: rgba(255,255,255,.2);
  font-size: 18px;
  color: white;
  padding: 0 5px;
  line-height: 32px;
  border-radius: 20px;
}

.form-input::placeholder {
  color: #CFD8DC;
  padding: 5px;
}

input, textarea{
  outline: none;
  border: none;
}

textarea{
  height: 70px;
  resize: none;
}

.btn-container {
  display: block;
  width: 100%;
}

.btn{
  color: #255784;
  background: #caf0f8;
  border-radius: 56px;
  box-shadow: 0 0 10px #2196f3, 0 0 40px #2196f3, 0 0 80px #2196f3;
  font-weight: 900;
  font-size: 16px;
  padding: 16px 32px;
  margin: 10px;
  position: relative;
  overflow: hidden;
  cursor: pointer;
  text-transform: uppercase;
  border: 0;
  outline: 0;
}

.btn:hover{
  cursor: pointer;
  background: #03e9f4;
  color: #fff;
  box-shadow: 0 0 5px #03e9f4;
}

#footer {
  position: fixed;
  width: 100%;
}
```

```
.send_btn{
  color: #255784;
  background: #caf0f8;
  border-radius: 56px;
  min-width: 200px;
  height: 48px;
  margin: 10px;
  outline: 0;
  border: 0;
  padding: 10px;
}

.send_btn:hover{
  cursor: pointer;
  background: #03e9f4;
  color: #fff;
  box-shadow: 0 0 5px #03e9f4;
}

.edit_btn{
  color: #255784;
  background: #caf0f8;
  border-radius: 56px;
  min-width: 200px;
  height: 48px;
  margin: 10px;
  outline: 0;
  border: 0;
  padding: 10px;
}

.edit_btn:hover{
  cursor: pointer;
  background: #F6226D;
  color: #fff;
  box-shadow: 0 0 5px #03e9f4;
}
```

Contact_us.js

```
// getting query page innerHTML and assigning it to variable(details)
var elem = document.getElementById("wrap-form");
var details = elem.innerHTML;
// variables to store query fields
var name = "";
var email = "";
var query = "";
var subject = "";

function viewQuery(){
    // getting values from fields
    name = document.form.name.value;
    email = document.form.email.value;
    query = document.form.message.value;
    subject = document.form.subject.value;

    if(checkName(name.trim())){
        alert("Name is invalid");
    } else if(query.trim() == ""){
        alert("Query is invalid");
    } else if(subject.trim() == ""){
        alert("Please select your subject");
    } else if (checkEmail(email.trim())) {
        alert("Email is invalid");
    } else {
        // Showing the results & two buttons
        elem.innerHTML = `

Name: ${name} <br><br> Email: ${email} <br><br> Subject:
        ${subject} <br><br> Details: ${query} </p>`;

        var send_btn = document.createElement("BUTTON");
        send_btn.innerHTML = "Send";
        send_btn.classList.add("send_btn");

        var edit_btn = document.createElement("BUTTON");
        edit_btn.innerHTML = "Edit";
        edit_btn.classList.add("edit_btn");

        elem.appendChild(send_btn);
        elem.appendChild(edit_btn);

        edit_btn.addEventListener("click", function() {
            elem.innerHTML = details;
            document.form.name.value = name;
            document.form.email.value = email;
            document.form.message.value = query;
            document.form.subject.value = subject;
        });

        //sending our details using gmail
        send_btn.addEventListener("click", function() {
            elem.innerHTML = details;
            alert("Sending email to " + email);
            let mail_query = `mailto:${email}?subject=Query&body=Name:${name}%0D%0AEmail:
            ${email}%0D%0ASubject:${subject}%0D%0ADetails:${query}`;
            window.open(mail_query, '_blank');
        });
    }
}


```



```
// function to validate email using regular expression
// function returns true if email is in valid format
function checkEmail(email) {
    let pattern = /^[^<>() \[\] \\\.,;:\s@"]+(\.[^<>() \[\] \\\.,;:\s@"]+)*|(".*")@((\[[0-9]{1,3}\. [0-9]{1,3}\. [0-9]{1,3}\. [0-9]{1,3}\]|(( [a-zA-Z\ -0-9]+\.)+[a-zA-Z]{2,}))\$/;
    return !pattern.test(email);
}

// function to validate name using regular expression
// function returns true if name is in correct format
function checkName(name) {
    let pattern = /^[ a-zA-Z\ -\']+\$/;
    return !pattern.test(name);
}
```

Main.css

```
*{
    font-family: cursive;
}

html, body {
    font-size: 16px;
    font-family: cursive;
    margin: 0;
    background-image: url("../images/bg.jpg");
    background-size: 100% 100%;
    background-repeat: no-repeat;
    background-attachment: fixed;
    scroll-behavior: smooth;
}

a {
    text-decoration: none;
    color: #FCC201;
}

#logo{
    padding: 10px;
    float: left;
}

.menu {
    background: #373DFA;
    background: linear-gradient(45deg, #a801ff, #373DFA);
    height: 64px;
}

.menu ol {
    list-style-type: none;
    margin: 0 auto;
    padding: 0;
}
```

```
.main-menu {
  max-width: 1000px;
  padding: 0 32px;
  display: flex;
}

.main-menu > .menu-item {
  flex: 1;
  padding: 12px 0;
}

.main-menu > .menu-item:hover {
  background: #81D4FA;
}

.menu-item {
  position: relative;
  line-height: 40px;
  text-align: center;
}

.menu-item a {
  overflow: hidden;
  white-space: nowrap;
  text-overflow: ellipsis;
  display: block;
  color: #FFF;
}

.sub-menu .menu-item {
  padding: 12px 0;
  background: #373DFA;
  opacity: 0;
  transform-origin: bottom;
  animation: enter 0.2s ease forwards;
}

@keyframes enter {
  from {
    opacity: 0;
    transform: scaleY(0.98) translateY(10px);
  }
  to {
    opacity: 1;
    transform: none;
  }
}

.sub-menu .menu-item:nth-child(1) {
  animation-duration: 0.2s;
  animation-delay: 0s;
}

.sub-menu .menu-item:nth-child(2) {
  animation-duration: 0.3s;
  animation-delay: 0.1s;
}
```

```
.sub-menu .menu-item:hover {
  background: #81D4FA;
}

.sub-menu .menu-item a {
  padding: 0 12px;
}

.sub-menu {
  position: absolute;
  width: 100%;
  top: 100%;
  left: 0;
  display: none;
  z-index: 1;
}

.menu-item:hover > .sub-menu {
  display: block;
}

#footer {
  padding: 10px;
  text-align: center;
  color: white;
  background-color: #5258FA;
  background: linear-gradient(45deg, #0006ff, #a801ff);
  bottom: 0;
}

#top {
  height: 60px;
  width: 95%;
}

#top a {
  float: right;
}

#top img:hover {
  transform: scale(1.2);
}

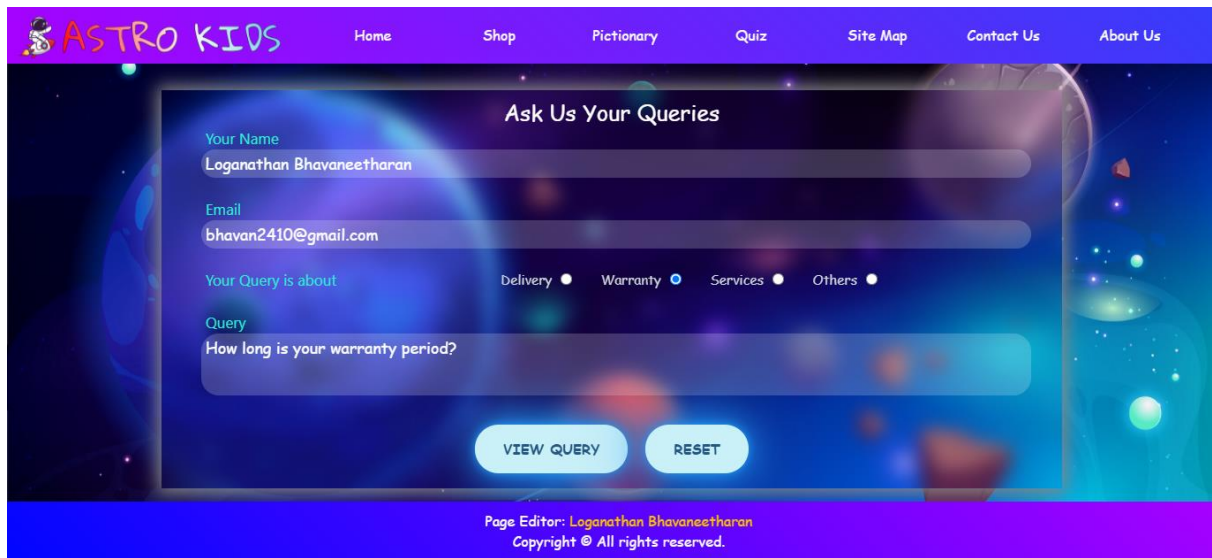
.centerElement {
  display: flex;
  justify-content: center;
  align-items: center;
  text-align: center;
}
```

Appendix B: Screenshots

Home.html



Contact_us.html



The screenshot shows a web browser displaying the 'ASTRO KIDS' website. The navigation bar at the top includes links for Home, Shop, Pictionary, Quiz, Site Map, Contact Us, and About Us. The main content area is titled 'Ask Us Your Queries' and contains a form with the following fields: 'Your Name' (filled with 'Loganathan Bhavaneetharan'), 'Email' (filled with 'bhavan2410@gmail.com'), 'Your Query is about' (with radio buttons for Delivery, Warranty, Services, and Others, where 'Warranty' is selected), and 'Query' (filled with 'How long is your warranty period?'). Below the form are 'VIEW QUERY' and 'RESET' buttons. The footer of the page states 'Page Editor: Loganathan Bhavaneetharan' and 'Copyright © All rights reserved.'

Student_2.html



The screenshot shows a web browser displaying the 'Student_2.html' page. The background is a vibrant space-themed illustration featuring planets, stars, and a comet. The text on the page includes: 'Loganathan Bhavaneetharan', 'IIT ID - 20201212 | UOW ID - w1810599', 'Role - Student 2', and 'Tasks and functionalities:'. The tasks listed are: 1. Main Page & Responsive navigation using css, 2. Contact Us and relevant JavaScript validation, 3. External CSS file (main), 4. Contributed in additional CSS for All the pages, and 5. Anchors within the page (Back to top button). The footer of the page states 'Page Editor: Loganathan Bhavaneetharan' and 'Copyright © All rights reserved.'

Appendix C: Individual Statement

Student Name:	Loganathan Bhavaneetharan	Student Id:	20201212
State what tasks you carried out in the project.			
Create the Main page (home page). Create the Contact Us Page (Query Form). Create the External CSS for our website. Create the Page Editor Page. Help other students in their css & javascript work. Test the entire website and report defects to the task allocated team members. Help other team members to write the report.			
State what you enjoyed and did not enjoy about teamwork.			
What I enjoyed: Team members were discussing what topic should we choose for the website since all the team members were exchanging their past experiences and some humorous opinions. The final appearance and behavior of our website. What I did not enjoy: Small disagreement with team members.			
State what you learnt about teamwork.			
I have learnt to help other team members when they are in difficulties. Understood the worth of having discussions to make the result of a teamwork tidier and nicer. Realized the value of respecting other team members opinions.			
State what skills you gained/learnt from undertaking the project.			
Gained further knowledge on HTML, CSS & JavaScript Teamworking skills Leadership skills Communication skills			
State any strengths about yourself that emerged whilst undertaking the project.			
I was doing a good job at leading the team and got some more knowledge on JavaScript which I am going to use to learn frameworks and I got the knowledge of how to host a site on a server.			
State any weaknesses about yourself that emerged whilst undertaking the project.			
Found out that I was impatient, and I need to treat every team member equally.			
State how you would do things better if you were to undertake the project again.			
I would like to try out another subject for our website content. I will try to make my code neater and cleaner. I might add some more content to the website as additional, then it may look more informative.			
Additional general or project specific comments:			
I should say that all the members of our group had given a huge effort to complete the project and without any of their support we could not make our website a succeed.			
Student Signature:		Date:	23.03.2021