

IP ISE-1

Astronomical Events Website 2024

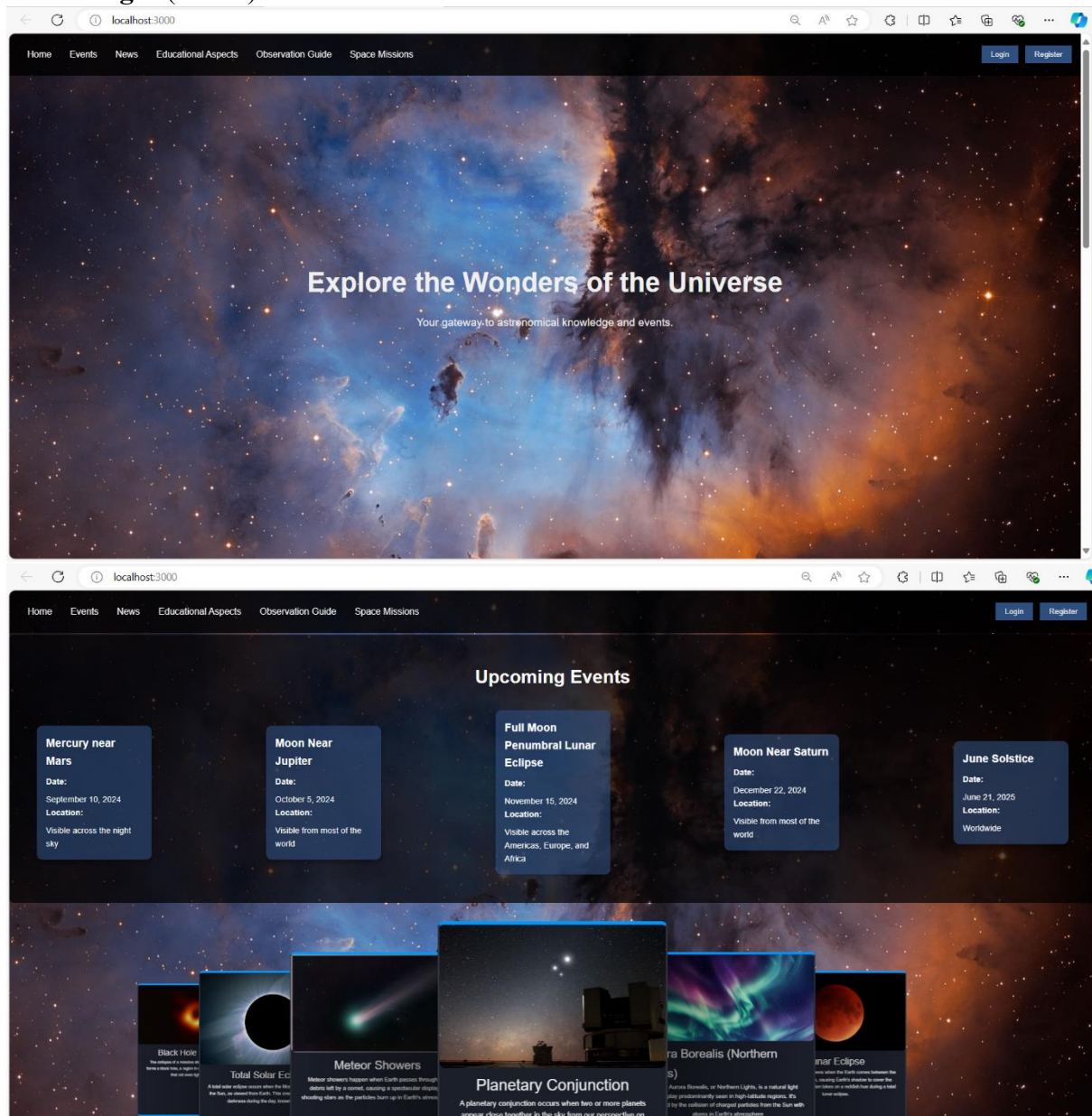
Group Members:

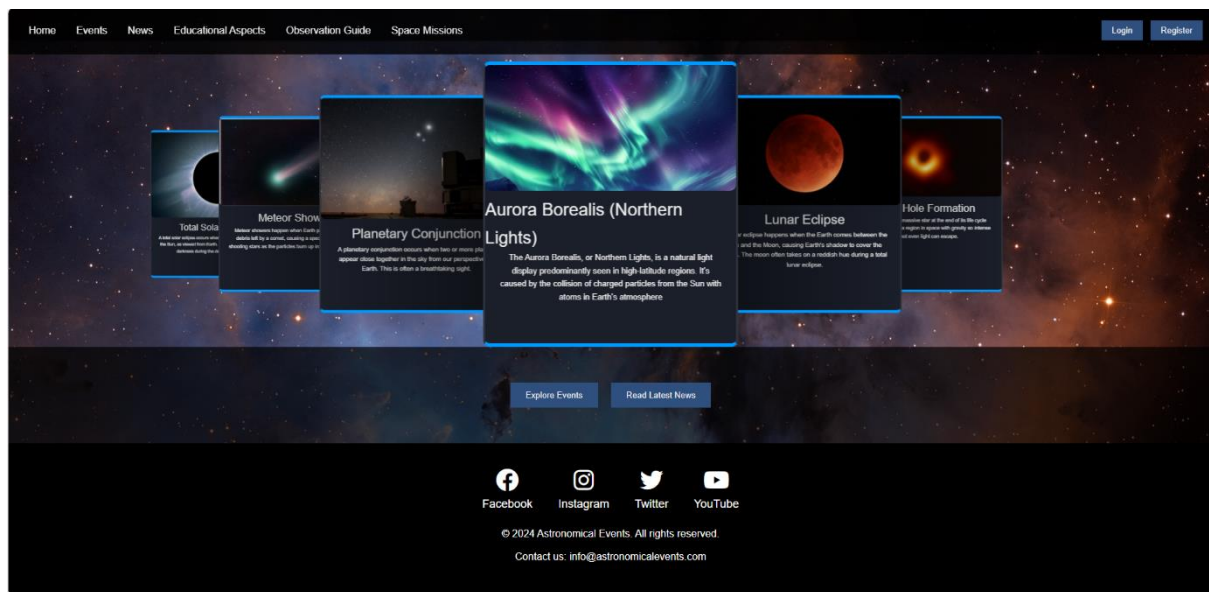
9956- Merrill Dmonte

9957- Swain Dmonte

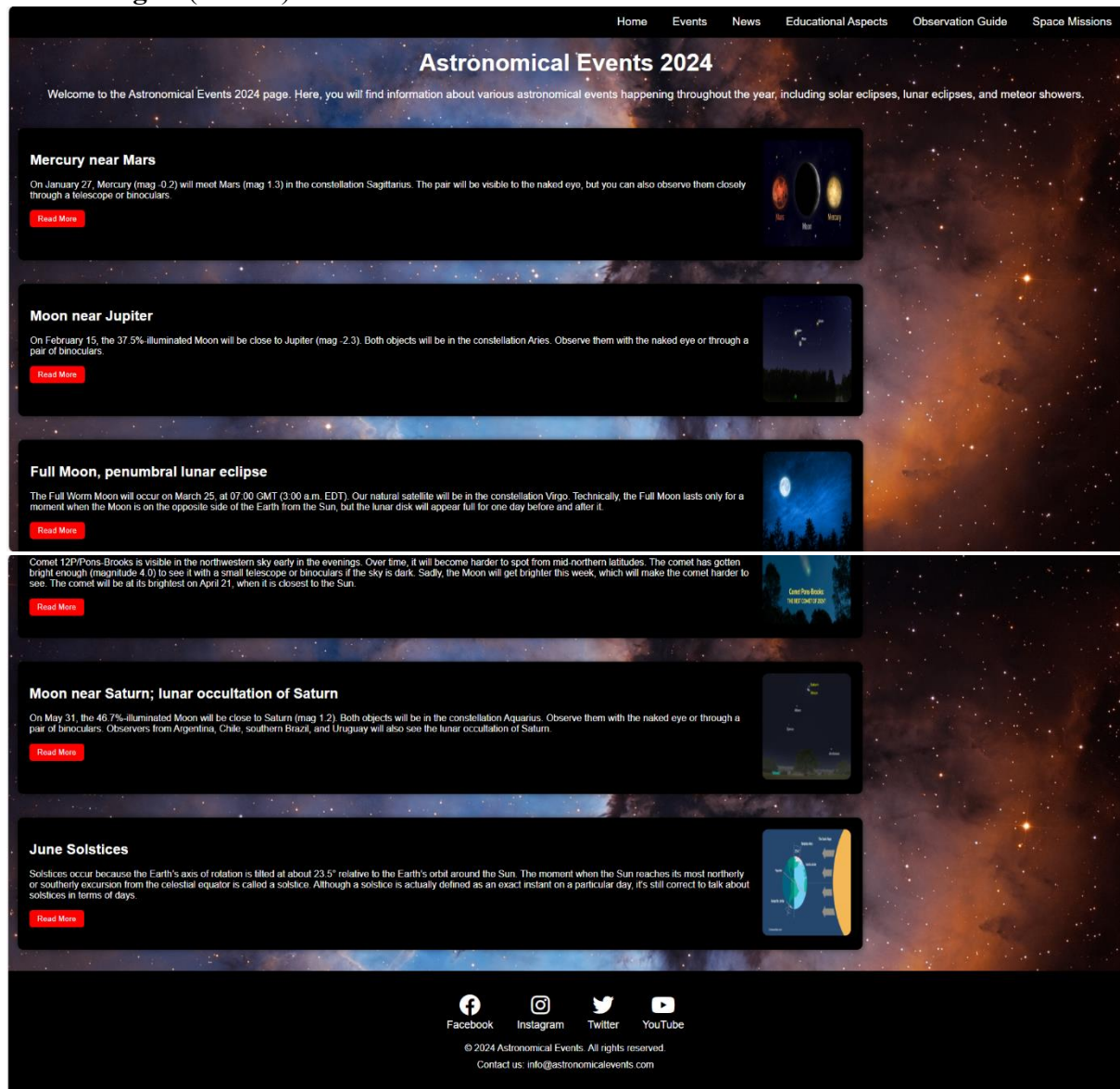
9927- Aryan Patil

Home Page:-(Swain)






Events Page:- (Merrill)



News page:- (Swain)

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Astronomical Events 2024



This Gargantuan Lab Simulates Blasting Satellites Into Space

Wired · 6/14/2024, 6:30:00 PM


If you spend millions of dollars developing a satellite, you need to know it can handle the rigors of hurtling around the Earth at 17,000 mph. The UK's National Satellite Test Facility is here to help.



Astronomers Detect Possible Matter-Antimatter Annihilation in Giant Space Explosion

Gizmodo.com · 7/26/2024, 9:55:04 PM


Subatomic particles colliding at nearly the speed of light may have produced a unique emission line in the brightest explosion ever observed.



Courts told to delay sentencings over prison space

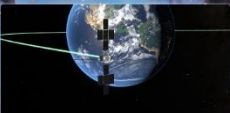
BBC News · 6/23/2024, 7:30:45 PM

The direction to courts is the second emergency measure instated this week amid a growing crisis.




Interstellar's Re-Release Is Still Happening. Just Later

Gizmodo.com · 6/9/2024, 6:30:22 AM




How to See a Spacecraft Slingshot Around Earth on Monday Night

Gizmodo.com · 6/19/2024, 4:25:16 AM



Every TV Show Astronauts Can Watch on the ISS Right Now


Gizmodo.com · 6/4/2024, 6:00:33 PM



Trump Rambled About 'Nuclear Warming' in a Disastrous Two Hour Talk with Elon Musk

Gizmodo.com · 6/13/2024, 5:40:26 PM


The former president lapsed his way through easy questions from one of the richest men on the planet.



What is a woman? Australian court rules in landmark case

BBC News · 6/23/2024, 7:06:21 AM


Roxanne Tickle has won a landmark case which questioned who can legally claim to be a woman.



Migrants screamed for help from van, jury told

BBC News · 6/20/2024, 9:16:57 PM


Anas Al Mustafa is accused of smuggling seven people into the UK in a van on a cross-Channel ferry.



Help Track Down Baby Black Holes Using This Citizen Science App

Gizmodo.com · 6/15/2024, 12:55:53 AM


Citizen scientists are invited to use a specialized app to sift through photos captured by powerful telescopes, searching for signs of neutron stars merging.



Bankers Have Lost So Much Money Thanks to Elon's Terrible Twitter Deal

Gizmodo.com · 6/24/2024, 6:06:53 PM


Elon Musk's purchase of Twitter is historic in all the wrong ways.





Earth's Magnetic Shield Twisted Out of Shape by Colossal Solar Burst


Gizmodo.com · 6/3/2024, 1:43:15 AM

The Sun's warping of Earth's magnetic protections could explain how aurora occur in other parts of our solar system.

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Educational Aspects:- (Merrill)

Observation Guide:- (Aryan)

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Observation Guide



Find a Dark Sky

Light pollution can hinder your stargazing experience. Find a location away from city lights for the best views.

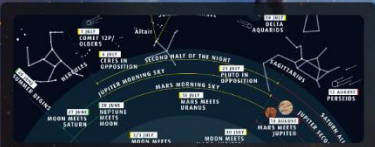
READ LESS



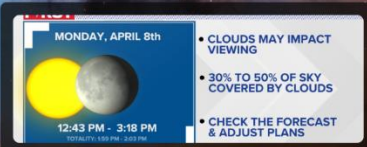
Use the Right Tools

Depending on the event, different tools such as binoculars or telescopes may enhance your viewing experience.

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Know When to Look



Check the Weather

HomeEventsNewsEducational AspectsObservation GuideSpace Missions

Find a Dark Sky



Light pollution can hinder your stargazing experience. Find a location away from city lights for the best views. Explore resources that help you locate dark sky areas globally.

Finding a dark sky is one of the most important factors for successful stargazing. Urban and suburban areas often suffer from light pollution, which makes it difficult to see stars and celestial events clearly. The best locations for stargazing are rural or remote areas where artificial light is minimal. National parks, nature reserves, and designated Dark Sky Parks are ideal spots. Tools like the Light Pollution Map and Dark Sky Finder can help you locate these places. In some regions, you may even find communities dedicated to preserving dark skies for astronomical purposes.

To maximize your stargazing experience, it's important to plan your visit to a dark sky location during the new moon phase when the sky is darkest. Consider bringing along red light flashlights to navigate without disrupting your night vision. If traveling isn't an option, you can reduce local light pollution by turning off outdoor lights and encouraging neighbors to do the same. Every bit of light reduction helps create a clearer view of the cosmos. Whether you're observing a meteor shower, a lunar eclipse, or just enjoying the Milky Way, finding a dark sky location will dramatically enhance your stargazing experience.

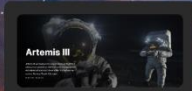
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Space Missions:- (Aryan)

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Space Missions in 2024



Artemis III

Artemis III - NASA's Artemis III will land the first woman and the next man on the Moon. This mission focuses on sustainable lunar exploration.


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Mars Sample Return

Mars Sample Return - NASA and ESA will collaborate to retrieve Martian soil samples collected by the Perseverance rover and return them to Earth.


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EUROPA

Europa Clipper - NASA's Europa Clipper will study Jupiter's moon Europa to investigate its potential to support life.


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Luna 26

Luna 26 - Russia's Luna 26 will conduct detailed mapping of the Moon's surface, particularly the polar regions, for future landing sites.


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Psyche

Psyche - NASA's Psyche mission will explore the asteroid 16 Psyche, believed to be the exposed core of a protoplanet.

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NISAR Mission

The NASA-ISRO Synthetic Aperture Radar (NISAR) mission will monitor Earth's surface, tracking changes in ice sheets, vegetation, and land deformation.

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Artemis III Mission

Artemis III

Artemis III will build on the crewed Artemis II flight test, adding new capabilities with the human landing system and advanced spacesuits to send the first humans to explore the lunar South Pole region.

● ACTIVE MISSION

explore the lunar South Pole region.

● ACTIVE MISSION

Mission Overview: Artemis III is a pivotal mission in NASA's Artemis program, aiming to land the first woman and the next man on the Moon. This mission represents the first crewed lunar landing since Apollo 17 in 1972 and is part of NASA's broader goal of sustainable lunar exploration.

Mission Objectives:

- Land the first woman and next man on the lunar South Pole.
- Perform scientific investigations, including sample collection and analysis.
- Test systems for sustainable lunar exploration.

Spacecraft:

Artemis III will use the Orion spacecraft, launched by NASA's Space Launch System (SLS) rocket. The crew will use the lunar lander, developed in collaboration with private industry, to descend to the lunar surface.

Key Technologies:

- Orion spacecraft with advanced life support and crew safety systems.
- Space Launch System (SLS) with unprecedented power to launch crew and cargo.
- Human Landing System (HLS) for safe descent and ascent on the lunar surface.

Timeline:

The Artemis III mission is scheduled for 2024, with a planned mission duration of around 30 days.

Significance:

This mission will not only return humans to the Moon but also help pave the way for future crewed missions to Mars, contributing to deep space exploration efforts.

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Login page:- (Swain)

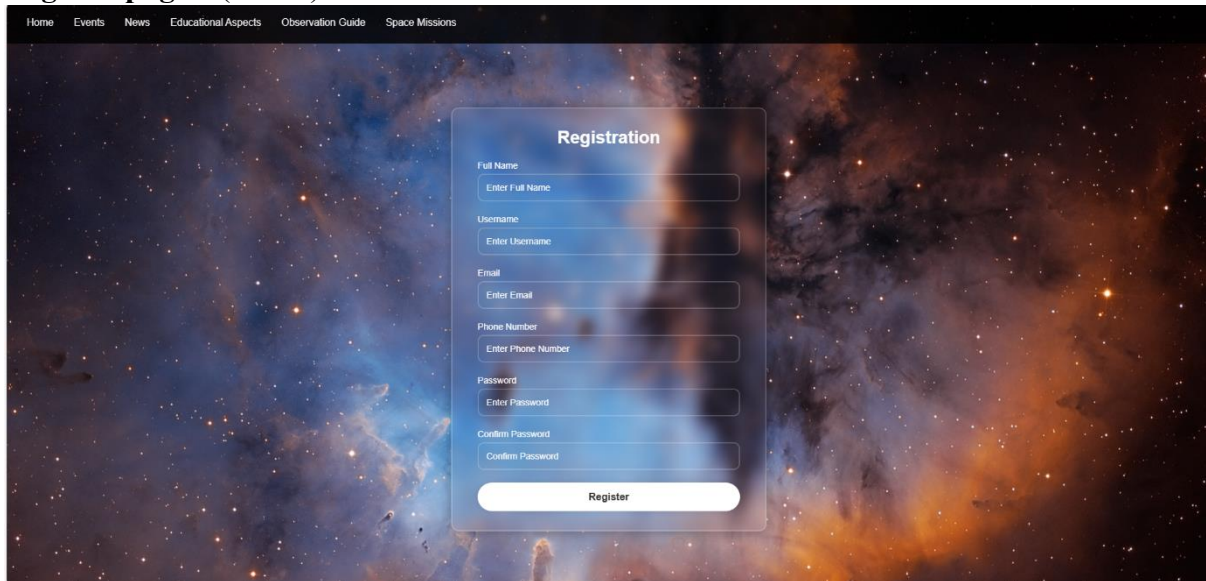
[Home](#)[Events](#)[News](#)[Educational Aspects](#)[Observation Guide](#)[Space Missions](#)

Login

☒ Remember Me

[Don't have an account? Register](#)

Register page:- (Swain)



The image shows a registration form titled "Registration" centered on a cosmic background. The form includes input fields for Full Name, Username, Email, Phone Number, Password, and Confirm Password, each with a placeholder text. A "Register" button is at the bottom.

Sample CSS file:- (Index.html page css file)

```
/* Reset and base styles */
```

```
* {  
  margin: 0;  
  padding: 0;  
  box-sizing: border-box;  
}
```

```
body {  
  font-family: 'Arial', sans-serif;  
  line-height: 1.6;  
  color: #f0f0f0;  
  background: url('assets/astromicalevents.jpeg') no-repeat center center fixed;  
  background-size: cover;  
}
```

```
/* Header styles - This section fixes the header at the top and gives it a semi-transparent background */
```

```
header {  
  background-color: rgba(0, 0, 0, 0.8);  
  padding: 1rem;  
  position: fixed;  
  width: 100%;  
  top: 0;  
  z-index: 1000;  
  display: flex;  
  justify-content: space-between;
```

```

    align-items: center;
}

/* Navigation styles - Styling for the navigation menu and links */
nav ul {
    display: flex;
    list-style: none;
}

nav ul a {
    color: #f0f0f0;
    text-decoration: none;
    padding: 0.5rem 1rem;
    transition: color 0.3s ease;
}

nav ul a:hover {
    color: #2f4f7f;
}

/* Auth buttons - Styling for login/register buttons in the header */
.auth-buttons button {
    background-color: #2f4f7f;
    color: #f0f0f0;
    border: none;
    padding: 0.5rem 1rem;
    margin-left: 0.5rem;
    cursor: pointer;
    transition: background-color 0.3s ease;
}

.auth-buttons button:hover {
    background-color: #1a3d5f;
}

/* Hero section - Full-height section with centered content */
#hero {
    height: 100vh;
    display: flex;
    align-items: center;
    justify-content: center;
    text-align: center;
    padding: 2rem;
}

.hero-content h1 {

```



```

    font-size: 3rem;
    margin-bottom: 1rem;
}

.hero-content p {
    font-size: 1.2rem;
}

/* Upcoming events section - Section for listing upcoming events with hover effects
*/#upcoming-events {
    background-color: rgba(0, 0, 0, 0.7);
    padding: 3rem;
    margin: 2rem 0;
    border-radius: 8px; /* Rounded corners for the section */
}

#upcoming-events h2 {
    text-align: center;
    color: #fff;
    margin-bottom: 2rem;
    font-size: 2rem;
}

.event-cards {
    display: flex;
    justify-content: space-between; /* Distributes cards evenly */
    align-items: center;
    gap: 0.5rem; /* Reduces the distance between cards */
    flex-wrap: nowrap; /* Ensures cards stay on one line */
    overflow-x: auto; /* Adds horizontal scroll if needed */
}

.card {
    background-color: rgba(47, 79, 127, 0.6);
    width: 200px; /* Adjust the width as needed */
    border-radius: 10px;
    overflow: hidden;
    perspective: 1000px;
    transition: transform 0.6s ease;
    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.3);
}

.card:hover {
    transform: rotateY(15deg);
}

```

```

.card-content {
  padding: 1rem;
  color: #fff;
}

.card-content h3 {
  font-size: 1.2rem;
  margin-bottom: 0.5rem;
}

.card-content p {
  font-size: 0.9rem;
}

.card-content strong {
  display: block;
  margin-bottom: 0.5rem;
}

*/
/* Featured content section - Section for displaying featured content in a card-like layout */
.collection {
  height: 100vh;
  background-color: #1e232e;
  display: flex;
  justify-content: center;
  align-items: center;
}

.collection .content {
  height: 28rem;
  width: 25rem;
  background-color: #1b1f2a;
  border: .2rem solid rgba(255, 255, 255, .1);
  border-radius: .7rem;
  border-bottom: .4rem solid #0099ff;
  border-top: .4rem solid #0099ff;
  overflow: hidden;
}

.content img {
  width: 100%;
  border-bottom-left-radius: .6rem;
  border-bottom-right-radius: .6rem;
}

```

/* Text content inside the featured section */

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

```
.text-content h3 {  
  font-size: 1.7rem;  
  font-weight: 500;  
}
```

```
.text-content p {  
  max-width: 22rem;  
  font-size: .8rem;  
  font-weight: 400;  
  text-align: center;  
}
```

```
.btn {  
  background-color: #0099ff;  
  padding: .2rem;  
  border: 2px solid #0099ff;  
  outline: none;  
  font-size: .8rem;  
  border-radius: .5rem;  
  margin: 1rem 0;  
  cursor: pointer;  
}
```

/* CTA section - Call-to-action section with a button */

```
#cta {  
  text-align: center;  
  padding: 3rem;  
  background-color: rgba(0, 0, 0, 0.7);  
}
```

```
#cta button {  
  background-color: #2f4f7f;  
  color: #f0f0f0;  
  border: none;  
  padding: 0.75rem 1.5rem;  
  margin: 0.5rem;  
  cursor: pointer;  
  transition: background-color 0.3s ease;
```



```
}

#cta button:hover {
    background-color: #1a3d5f;
}

/* Footer styles - Styles for the footer section, including social media icons */
.footer {
    background-color: black;
    color: white;
    text-align: center;
    padding: 20px 0;
    position: relative;
    width: 100%;
    bottom: 0;
}

.footer-content {
    max-width: 1200px;
    margin: 0 auto;
    padding: 20px;
}

.social-media {
    display: flex;
    justify-content: center;
    margin-bottom: 20px;
}

.social-media a {
    color: white;
    margin: 0 20px;
    text-decoration: none;
    font-size: 18px;
    text-align: center;
}

.social-media i {
    display: block;
    margin-bottom: 5px;
}

.social-media span {
    display: block;
}
```

```
.footer p {
  margin: 10px 0;
}

.footer a {
  color: white;
  text-decoration: none;
}

.footer a:hover {
  text-decoration: underline;
}

/* Responsive design - Adjustments for smaller screens */
@media (max-width: 768px) {
  header {
    flex-direction: column;
  }

  nav ul {
    flex-direction: column;
    align-items: center;
  }

  nav ul a {
    padding: 0.5rem;
  }

  .auth-buttons {
    margin-top: 1rem;
  }

  #hero {
    padding-top: 6rem;
  }

  .hero-content h1 {
    font-size: 2rem;
  }

  .hero-content p {
    font-size: 1rem;
  }

  #upcoming-events, #featured-content, #cta {
    padding: 2rem 1rem;
  }
}
```

```
}  
}
```

Sample Javascript File:- (Javascript code for events.html page)

```
// Event listener that triggers when the DOM content is fully loaded  
document.addEventListener('DOMContentLoaded', function() {  
  // Select all elements with the class 'read-more-btn'  
  const buttons = document.querySelectorAll('.read-more-btn');  
  
  // Attach click event listener to each button  
  buttons.forEach(button => {  
    button.addEventListener('click', function() {  
      const moreinfo = this.nextElementSibling; // Get the next sibling element (more info  
section)  
      const eventId = this.getAttribute('data-event-id'); // Get the event ID from data  
attribute  
  
      // Check if the more info section is currently hidden  
      if (moreinfo.style.display === 'none' || moreinfo.style.display === '') {  
        // Fetch more information from the server using the event ID  
        fetch(`/events/${eventId}`)  
          .then(response => response.json()) // Parse the response to JSON  
          .then(data => {  
            moreinfo.innerHTML = data.description; // Update the content of the more  
info section  
            moreinfo.style.display = 'block'; // Make the more info section visible  
            this.textContent = 'Read Less'; // Change button text to 'Read Less'  
          })  
          .catch(error => console.error('Error fetching event information:', error)); // Log  
any errors  
      } else {  
        moreinfo.style.display = 'none'; // Hide the more info section  
        this.textContent = 'Read More'; // Change button text to 'Read More'  
      }  
    });  
  });  
});  
  
// Another DOMContentLoaded event listener for handling button clicks  
document.addEventListener('DOMContentLoaded', function() {  
  // Select all elements with the class 'read-more-btn'  
  const buttons = document.querySelectorAll('.read-more-btn');  
  
  // Attach click event listener to each button  
  buttons.forEach(button => {
```



```

        button.addEventListener('click', function() {
            const eventId = this.getAttribute('data-event-id'); // Get the event ID from data
attribute

            // Redirect to a new page with the event ID as a query parameter
            window.location.href = `/event.html?id=${eventId}`;
        });
    });
});

// Another DOMContentLoaded event listener for displaying text word by word
document.addEventListener("DOMContentLoaded", function() {
    const description = "Welcome to the Astronomical Events 2024 page. Here, you will find
information about various astronomical events happening throughout the year, including solar
eclipses, lunar eclipses, and meteor showers."; // Text to be displayed
    const descriptionElement = document.getElementById("description"); // Get the element
where the text will be displayed
    const words = description.split(" "); // Split the text into individual words
    let index = 0; // Initialize index for word display

    // Function to display the next word in the text
    function displayNextWord() {
        if (index < words.length) {
            descriptionElement.innerHTML += words[index] + " "; // Append the next word
            index++;
            setTimeout(displayNextWord, 200); // Call the function again after a delay
        }
    }

    displayNextWord(); // Start displaying the text
});

// Final DOMContentLoaded event listener for typing effect and read more functionality
document.addEventListener('DOMContentLoaded', () => {
    // Part 1: Typing Effect for Description
    const description = "Astronomy is the scientific study of celestial objects, space, and the
universe as a whole. It explores the mysteries of planets, stars, galaxies, and cosmic
phenomena, helping us understand the vastness and complexity of the cosmos. Space, the
boundless expanse beyond Earth's atmosphere, is a frontier filled with wonders and
challenges, from black holes and supernovae to the potential for life beyond our planet.
Together, astronomy and space science inspire curiosity, drive technological advancements,
and expand our knowledge of the universe and our place within it."; // Text to be typed
    const dynamicTextElement = document.getElementById('dynamic-text'); // Get the
element where the text will be typed
    let index = 0; // Initialize index for typing effect

```

```

// Function to type each character in the description
function typeWriter() {
  if (index < description.length) {
    dynamicTextElement.textContent += description[index]; // Append the next character
    index++;
    setTimeout(typeWriter, 30); // Call the function again after a delay
  }
}

typeWriter(); // Start the typing effect

// Part 2: Read More Links Functionality
const buttons = document.querySelectorAll('.read-more-btn1'); // Select all elements with the
class 'read-more-btn1'

// Attach click event listener to each button
buttons.forEach(button => {
  // Hide the more info section initially
  const moreinfo = button.nextElementSibling;
  moreinfo.style.display = 'none';

  button.addEventListener('click', function() {
    if (moreinfo.style.display === 'none' || moreinfo.style.display === '') {
      moreinfo.style.display = 'block'; // Make the more info section visible
      this.textContent = 'Read Less'; // Change button text to 'Read Less'
    } else {
      moreinfo.style.display = 'none'; // Hide the more info section
      this.textContent = 'Read More'; // Change button text to 'Read More'
    }
  });
});

});

```

Database connection and fetch file:- (Server.js file for overall database connectivity of all pages where database is implemented)

```

const express = require('express');
const bodyParser = require('body-parser');
const bcrypt = require('bcrypt');
const { Pool } = require('pg');

// Initialize Express app
const app = express();

```

```

const port = 3000;

// Use body-parser to parse JSON bodies into JS objects
app.use(bodyParser.urlencoded({ extended: true }));
app.use(bodyParser.json());

// Set up PostgreSQL connection
const pool = new Pool({
  user: 'postgres',
  host: 'localhost',
  database: 'astronomical_events',
  password: '041004',
  port: 5432
});

// Serve static files (HTML, CSS, JS)
app.use(express.static('public'));

// Endpoint to get event information
app.get('/events/:id', async (req, res) => {
  const eventId = req.params.id;

  try {
    const result = await pool.query('SELECT description FROM events WHERE id = $1',
[eventId]);
    if (result.rows.length > 0) {
      res.json(result.rows[0]);
    } else {
      res.status(404).json({ error: 'Event not found' });
    }
  } catch (err) {
    console.error('Error fetching event:', err);
    res.status(500).json({ error: 'Internal Server Error' });
  }
});

// Registration Route
app.post('/register', async (req, res) => {
  const { fullName, username, email, phoneNumber, password } = req.body;
  const hashedPassword = await bcrypt.hash(password, 10);

  try {
    // Insert the new user into the database
    await pool.query(
      `INSERT INTO users (full_name, username, email, phone_number, password)
      VALUES ($1, $2, $3, $4, $5)`,

```



```

    [fullName, username, email, phoneNumber, hashedPassword]
  );
  // Redirect to the login page after successful registration
  res.redirect('/login.html');
} catch (err) {
  console.error('Error registering user:', err);
  res.status(500).send('Error registering user.');
```

}

```

});

// Login Route
app.post('/login', async (req, res) => {
  const { username, password } = req.body;

  try {
    // Query the database for the user
    const result = await pool.query(
      'SELECT * FROM users WHERE username = $1',
      [username]
    );

    if (result.rows.length > 0) {
      const user = result.rows[0];
      const isMatch = await bcrypt.compare(password, user.password);

      if (isMatch) {
        // Redirect to the index page after successful login
        res.redirect('/index.html');
      } else {
        res.status(400).send('Invalid password.');
```

}

```

      } else {
        res.status(400).send('User not found.');
```

}

```

    } catch (err) {
      console.error(err);
      res.status(500).send('Error logging in.');
```

}

```

  });

// Correct the route to fetch missions data
app.get('/fetch_missions', async (req, res) => {
  try {
    const result = await pool.query('SELECT * FROM missions');
    res.json(result.rows);
  } catch (err) {
```

```
        console.error('Error fetching missions data:', err);
        res.status(500).json({ error: 'Internal server error' });
    }
});

// Start the server
app.listen(port, () => {
    console.log(`Server running at http://localhost:${port}`);
});
```