PROJECT REPORT

1.INTRODUCTION

- **Overview**

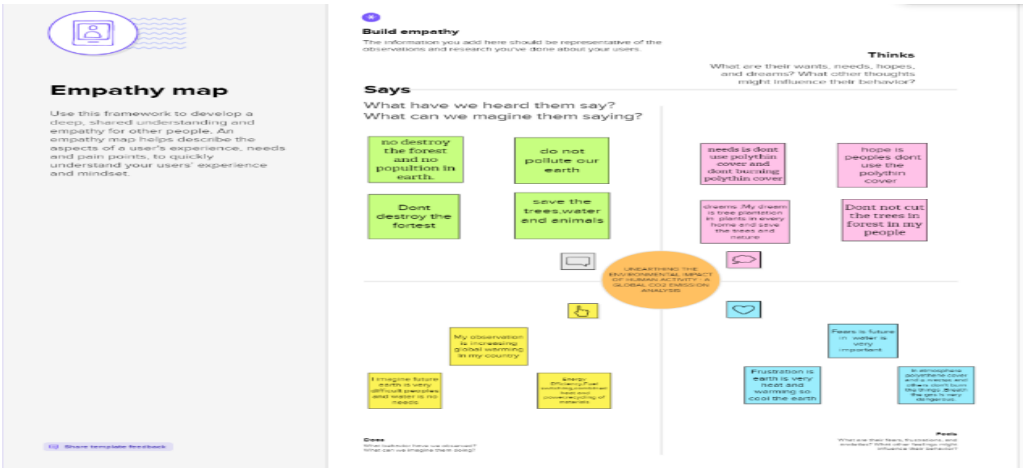
Carbon dioxide (chemical formula Co2) is a chemical compound made up of molecule that each has one carbon atom covalently double bonded to two oxygen atoms. It is found in the gas state at room temperature, and as the source of available carbon in carbon cycle, atmospheric Co2 is the primary carbon source for life on earth. In the air, carbon dioxide is transparent to visible light but absorbs infrared radiation, acting as a greenhouse gas. Carbon dioxide is soluble in water and is found in groundwater, lakes, ice caps and seawater.

- **Purpose**

Carbon is in Carbon dioxide, which is a greenhouse gas that traps heat close to Earth. It helps Earth hold some of the heat it receives from the sun so it doesn't all escape back into space.

2.Problem Definition &Design Thinking

Empathy map



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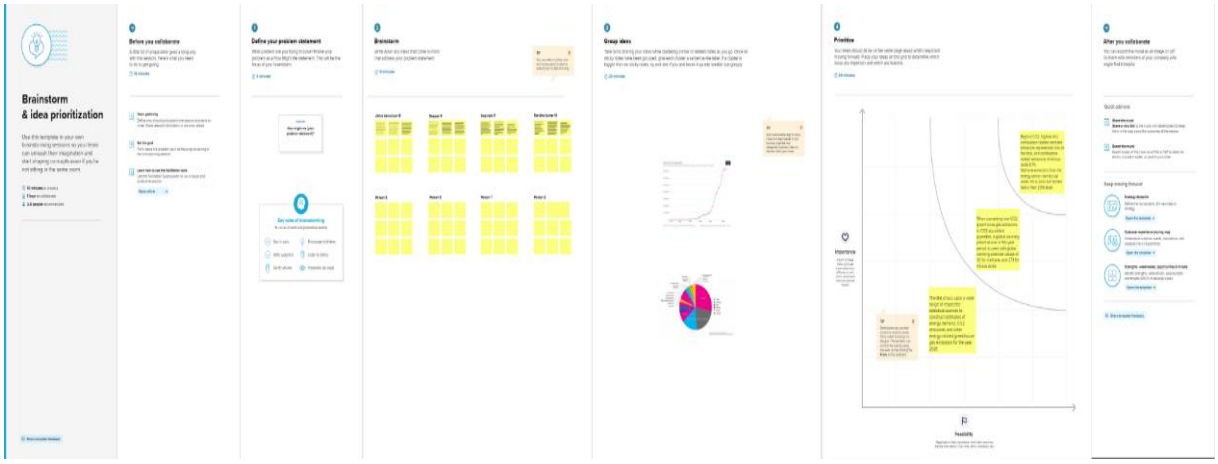
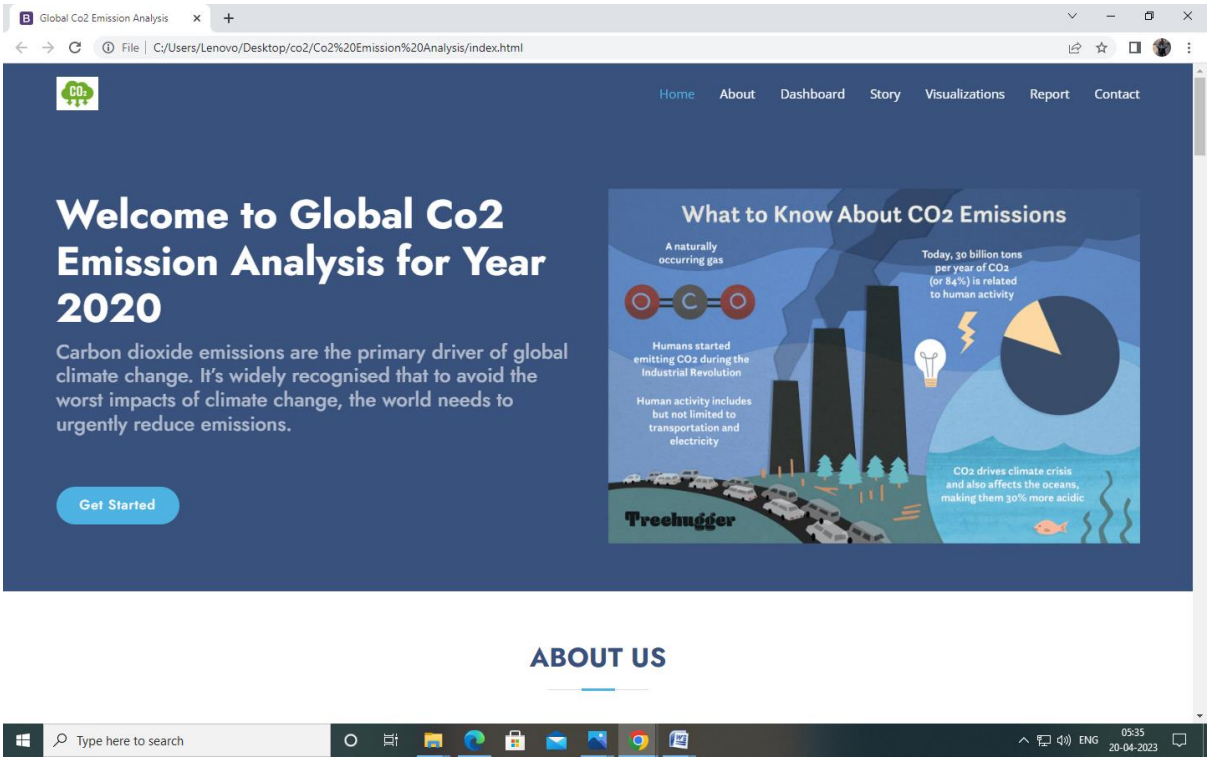
Ideation and Brainstorming Map



RESULT



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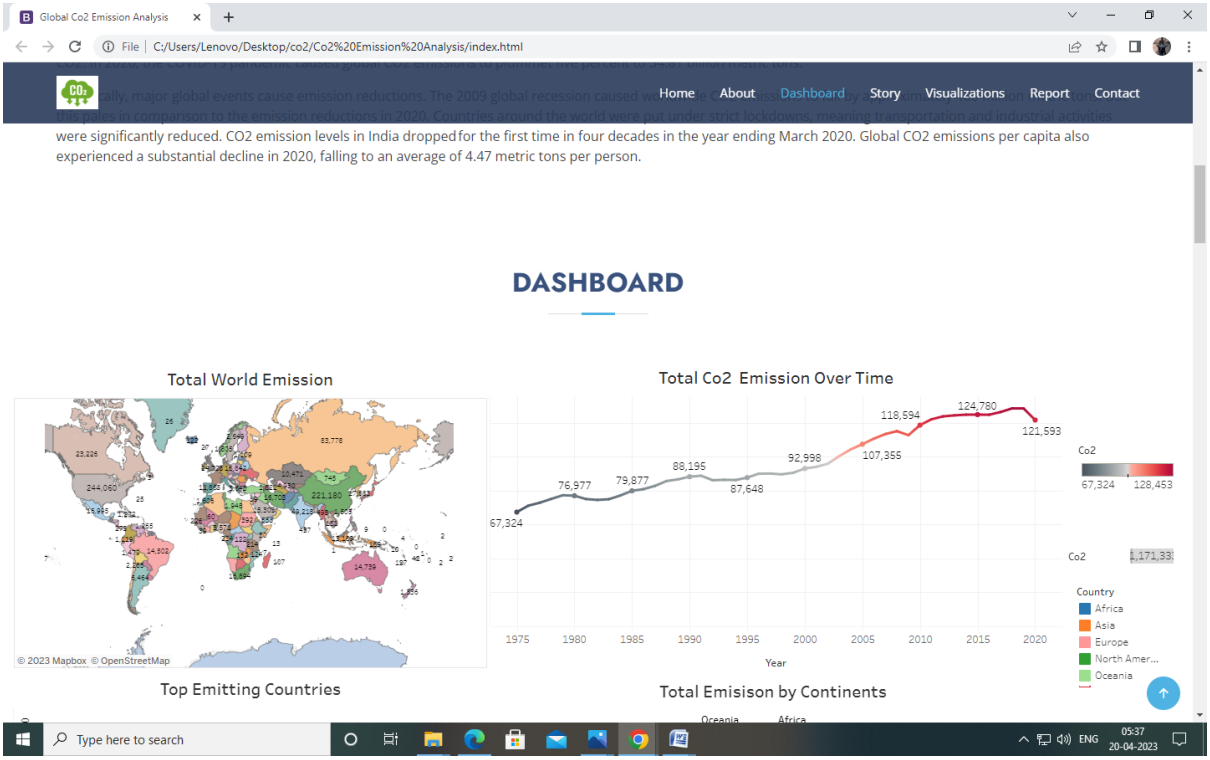
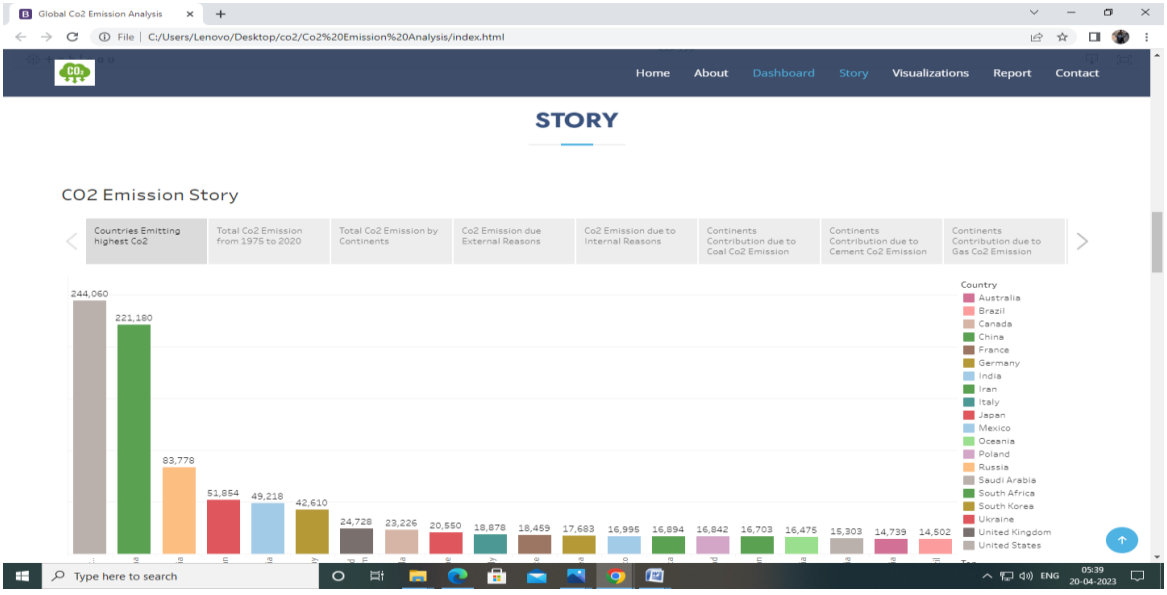
DASHBOARD



STORY



ADVANTAGES & DISADVANTAGES

❖ ADVANTAGES

- Green plants grow faster with more CO2.Many also become more drought –resistant because higher CO2 levels allow paints to use water more efficiently.
- More abundant vegetation from increased CO2 is already apparent.

❖ DISADVANTAGES

- These may include
- Headaches
- Dizziness
- Restlessness
- A tingling or pins or needles feeling
- Difficulty breathing
- Sweating
- Blood pressure
- Coma
- Asphyxia
- Convulsions

❖ APPLICATIONS

➢ MULTI-INDUSTRY USES FOR CO2

- Carbon dioxide in solid and in liquid form is used for refrigeration and cooling . It is used as an inert gas in carbon powder and in fire extinguishers.

- **METALS INDUSTRY**

  - Carbon dioxide is used in the manufacture of casting molds to enhance their hardness

- **MANUFACTURING AND CONSTRUTION USES:**

  - Carbon dioxide is used on a large scale as a shield gas in MIG/MAG welding, where the gas protects the weld puddle against oxidation by the surrounding.
  - A mixture of argon and carbon dioxide is commonly used today to achieve a higher welding rate and reduce the need for post weld treatment.

CONCLUSION

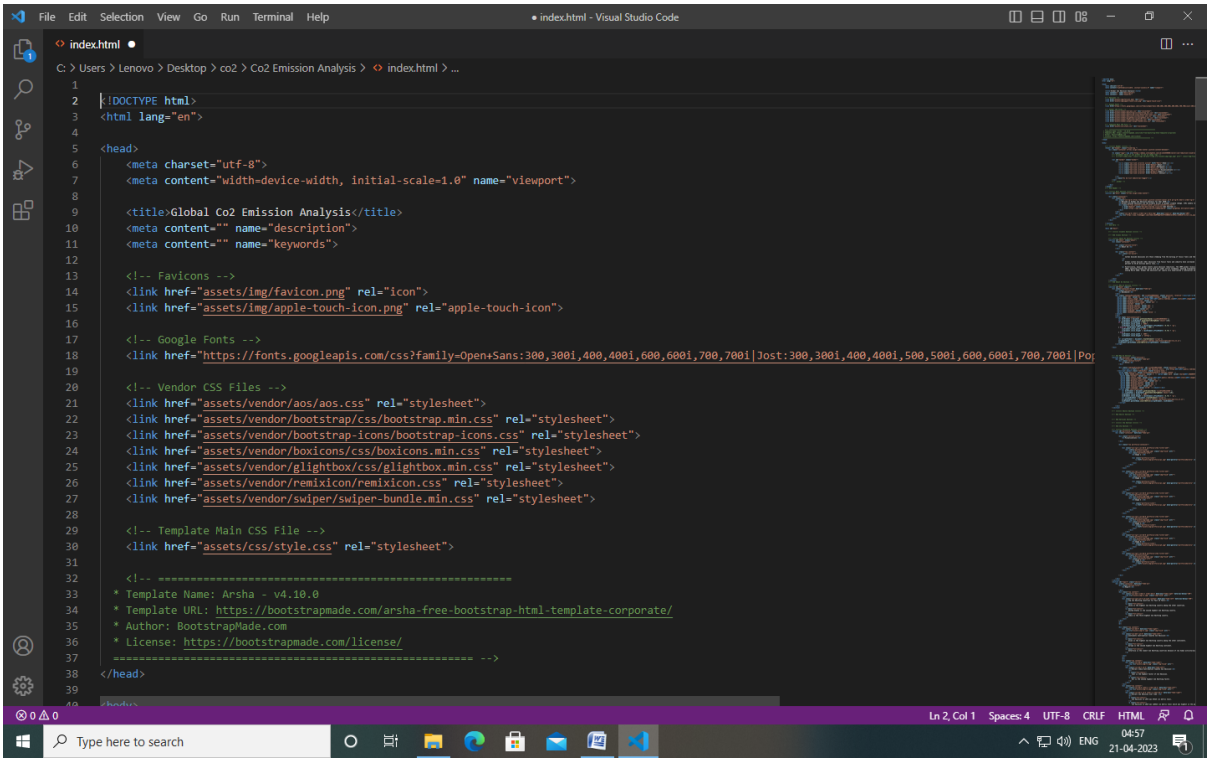
The rising level of atmospheric CO2 could be the one global natural resource that is progressively increasing food production and total biological output, in a world of otherwise diminishing natural resources of land, water, energy, minerals and fertilizers.

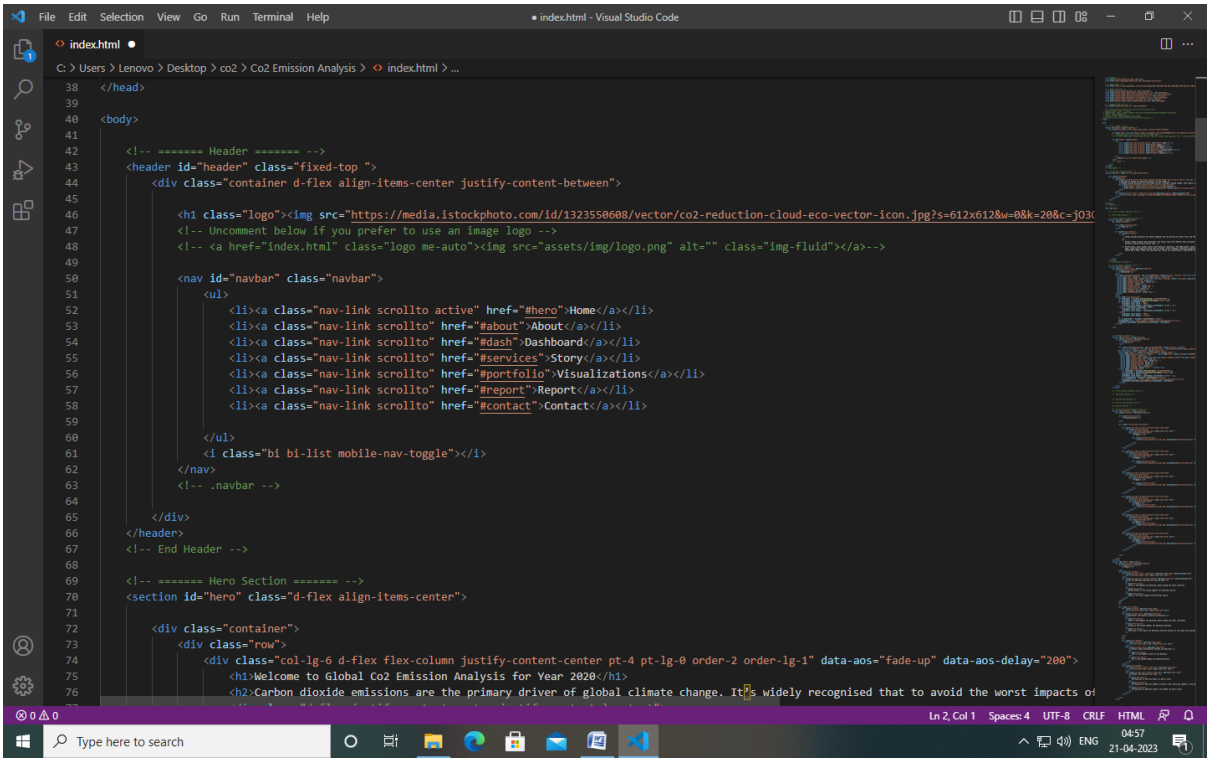
FUTURE SCOPE

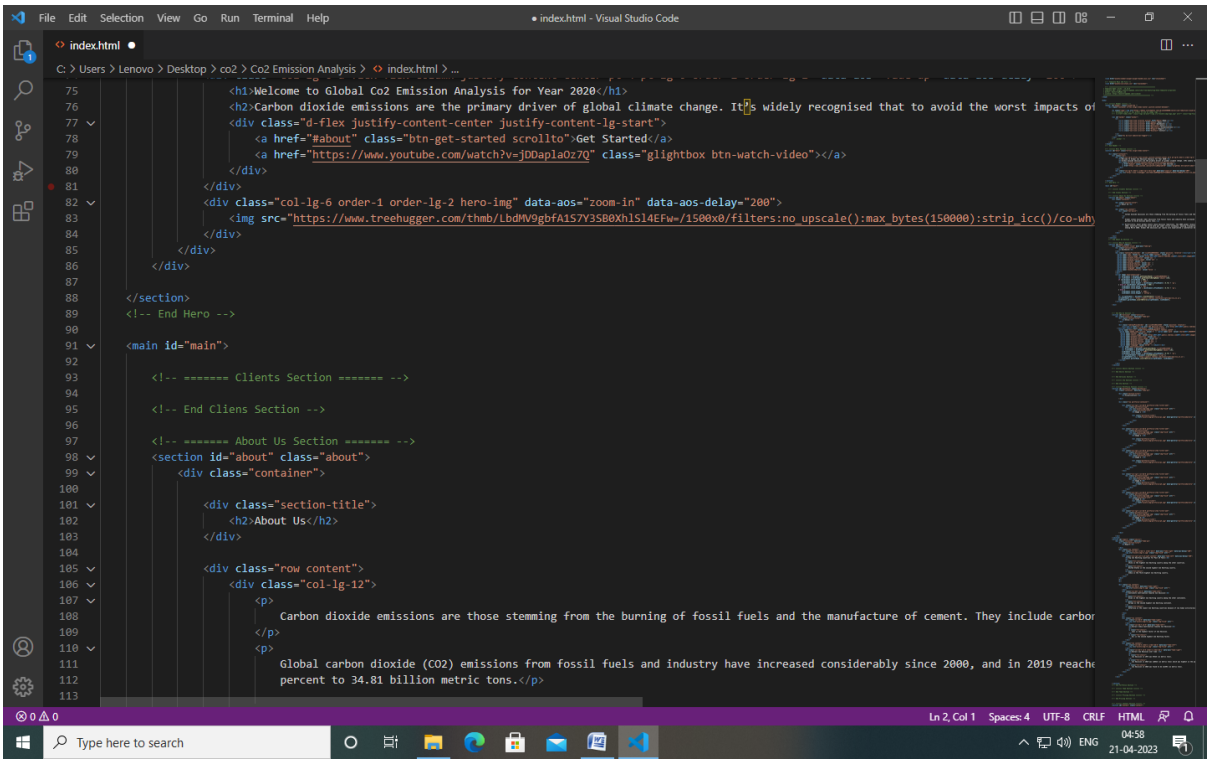
- ✓ Global energy-related CO2 emissions grew by 0.9% or 321 Mt in 2022, reaching a new high of over 36.8Gt.
- ✓ CO2 growth in 2022 was well below global GDP growth of 3.2%
- ✓ Emission from oil grew even more than emission from coal, rising by 2.5% or 268 Mt to 11.2Gt.
- ✓ Emission from industry declined by 1.7% to 9.2 Gt last year.
- ✓ Emission from Asia emerging market and developing economies, excluding china, grew more than those from
- ✓ any other region in 2022.

APPENDIX

Source code



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• index.html - Visual Studio Code
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<h1>Welcome to Global Co2 Emission Analysis for Year 2020</h1>
<h2>Carbon dioxide emissions are the primary driver of global climate change. It's widely recognised that to avoid the worst impacts of

Get Started

<img src="https://www.treehugger.com/thmb/LbdMV9gbfA1S7Y3SB0Xhl5l4EFw=/1500x0/filters:no_upscale():max_bytes(150000):strip_icc()/co-why

</section>
<!-- End Hero -->
<main id="main">
<!-- ======= Clients Section ======= -->
<!-- End Cliens Section -->
<!-- ======= About Us Section ======= -->
<section id="about" class="about">

<h2>About Us</h2>

Carbon dioxide emissions are those stemming from the burning of fossil fuels and the manufacture of cement. They include carbor

Global carbon dioxide (CO2) emissions from fossil fuels and industry have increased considerably since 2000, and in 2019 reache
percent to 34.81 billion metric tons.
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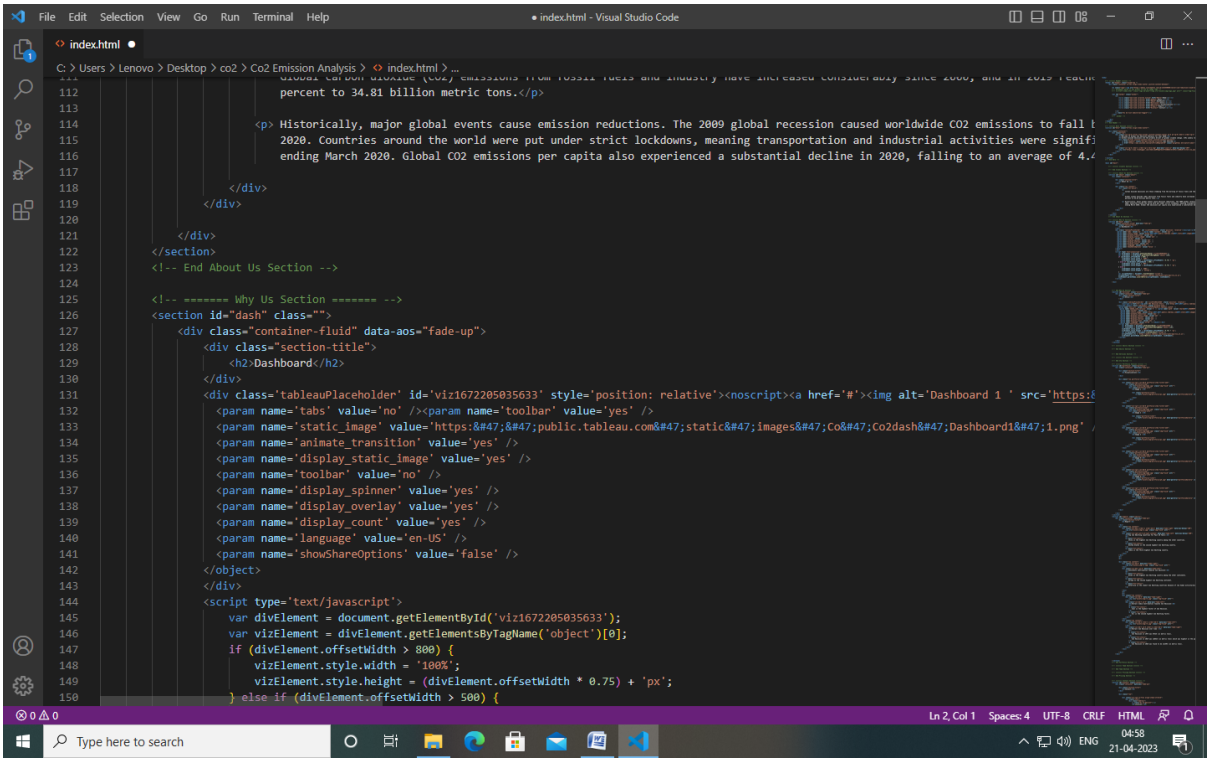
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percent to 34.81 billion metric tons.
 Historically, major global events cause emission reductions. The 2009 global recession caused worldwide CO2 emissions to fall
2020. Countries around the world were put under strict lockdowns, meaning transportation and industrial activities were signifi
ending March 2020. Global CO2 emissions per capita also experienced a substantial decline in 2020, falling to an average of 4.

</section>
<!-- End About Us Section -->
<!-- ======= Why Us Section ======= -->
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var vizElement = divElement.getElementsByTagName('object')[0];
if (divElement.offsetWidth > 800) {
vizElement.style.width = '100%';
vizElement.style.height = (divElement.offsetWidth * 0.75) + 'px';
} else if (divElement.offsetWidth > 500) {
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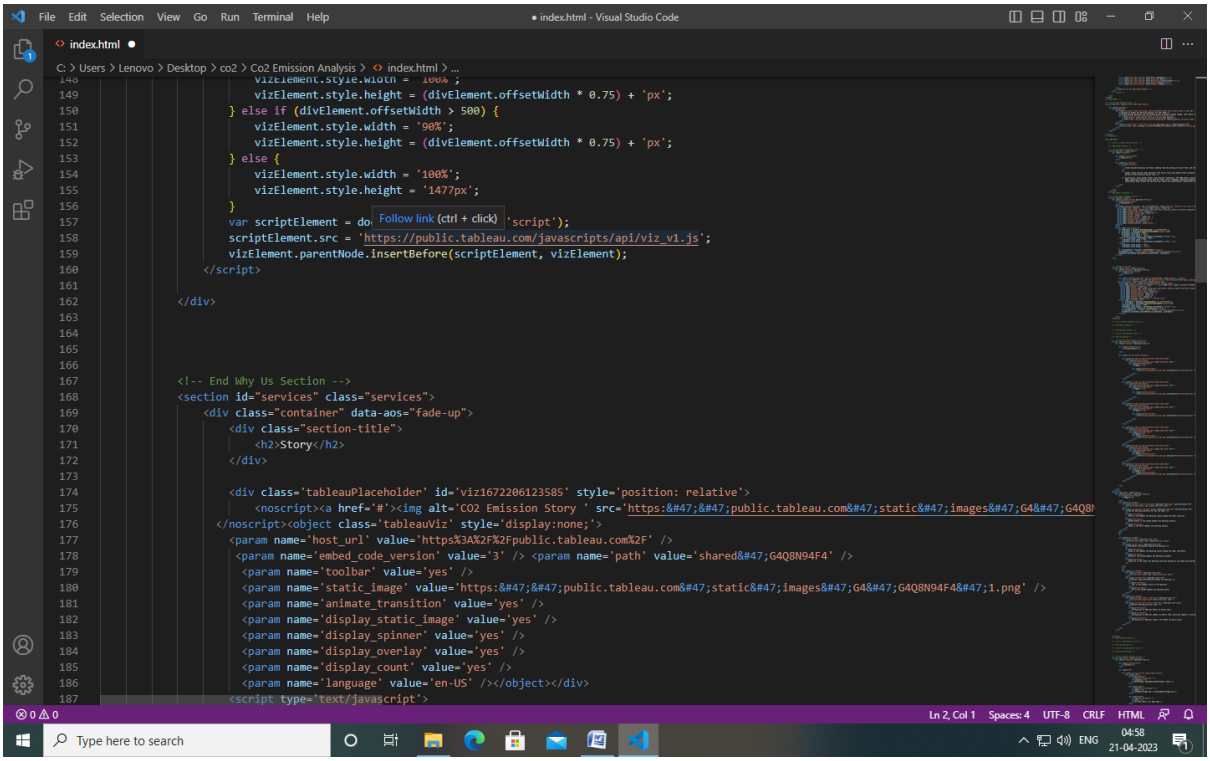
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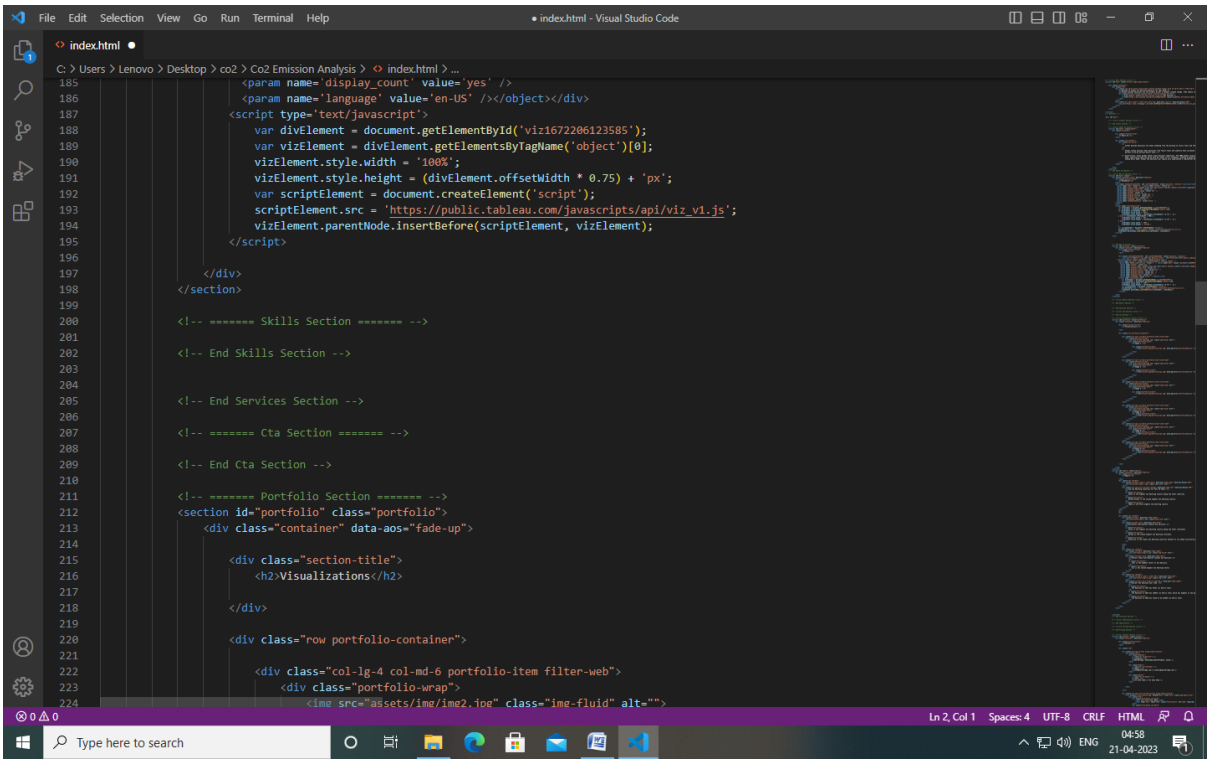
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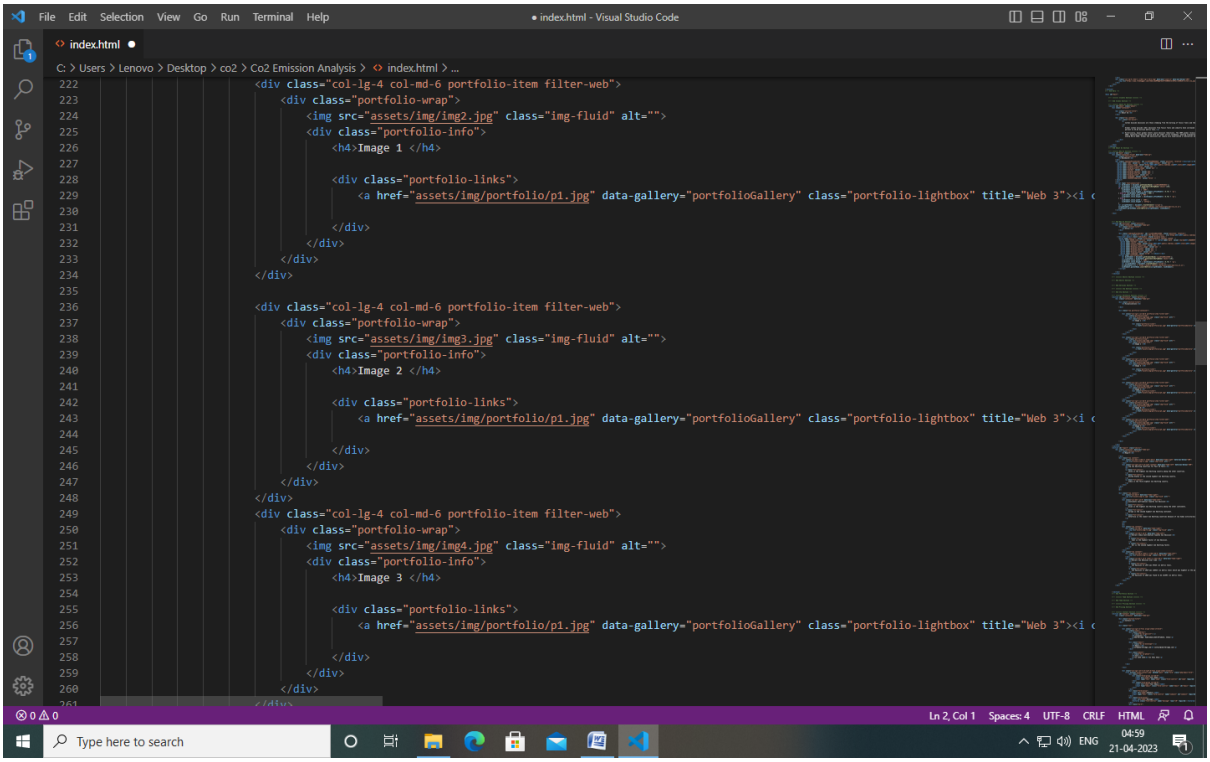
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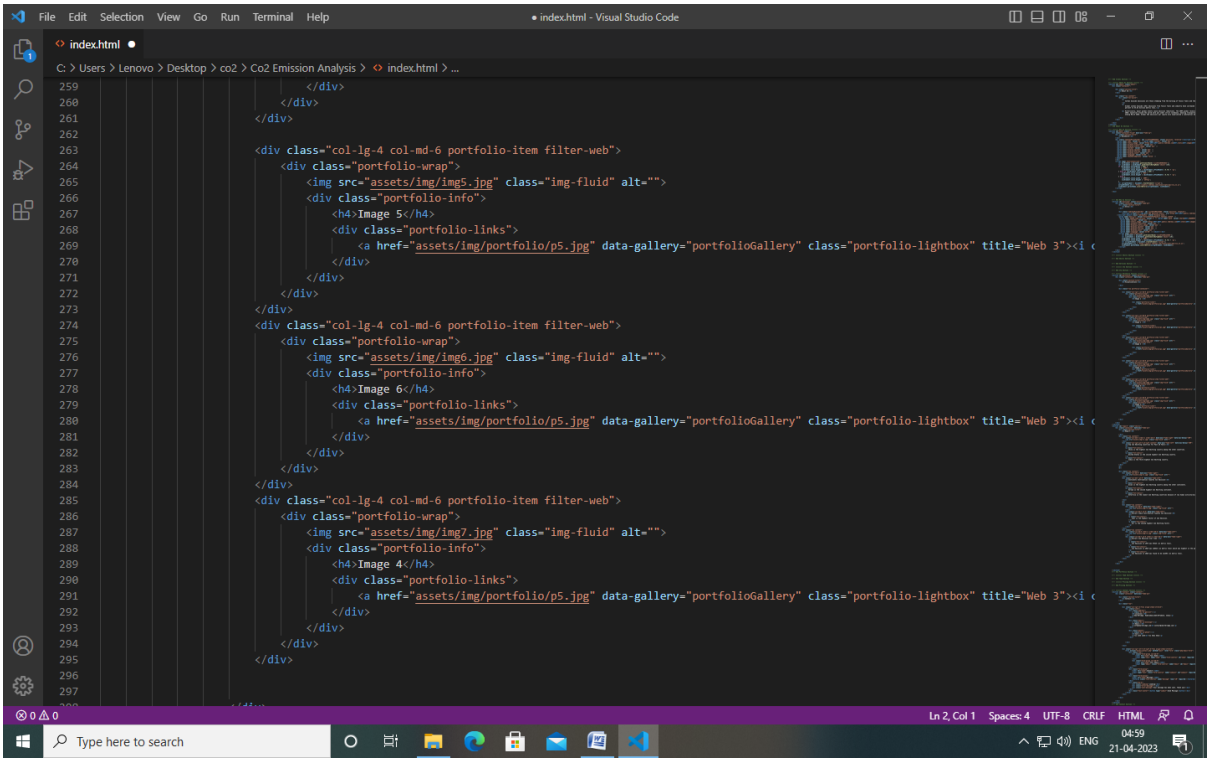
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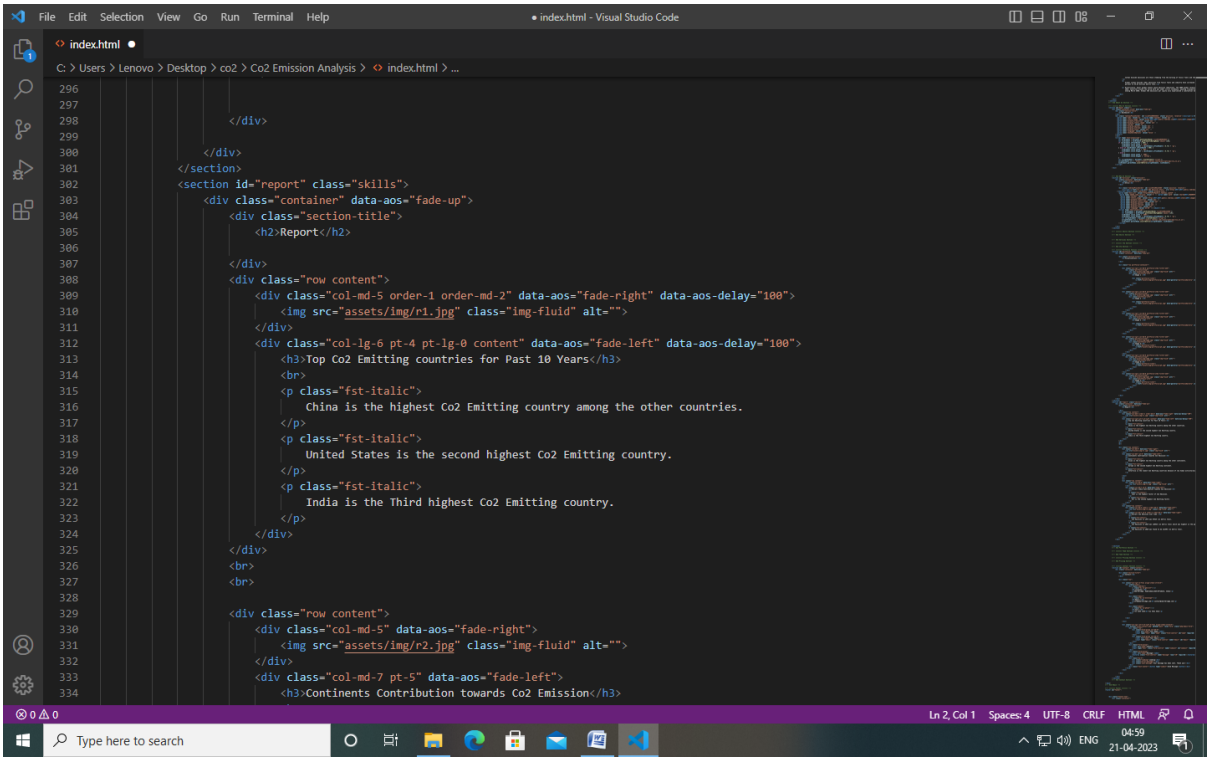

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                        <h2>Report</h2>

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                        </div>
                        <div class="col-lg-6 pt-4 pt-lg-0 content" data-aos="fade-left" data-aos-delay="100">
                            <h3>Top Co2 Emitting countries for Past 10 Years</h3>
                            <br>
                            <p class="fst-italic">
                                China is the highest Co2 Emitting country among the other countries.
                            </p>
                            <p class="fst-italic">
                                United States is the second highest Co2 Emitting country.
                            </p>
                            <p class="fst-italic">
                                India is the Third highest Co2 Emitting country.
                            </p>
                        </div>
                    </div>
                    <br>
                    <br>

                    <div class="row content">
                        <div class="col-md-5" data-aos="fade-right">
                            <img src="assets/img/r2.jpg" class="img-fluid" alt="">
                        </div>
                        <div class="col-md-7 pt-5" data-aos="fade-left">
                            <h3>Continents Contribution towards Co2 Emission</h3>
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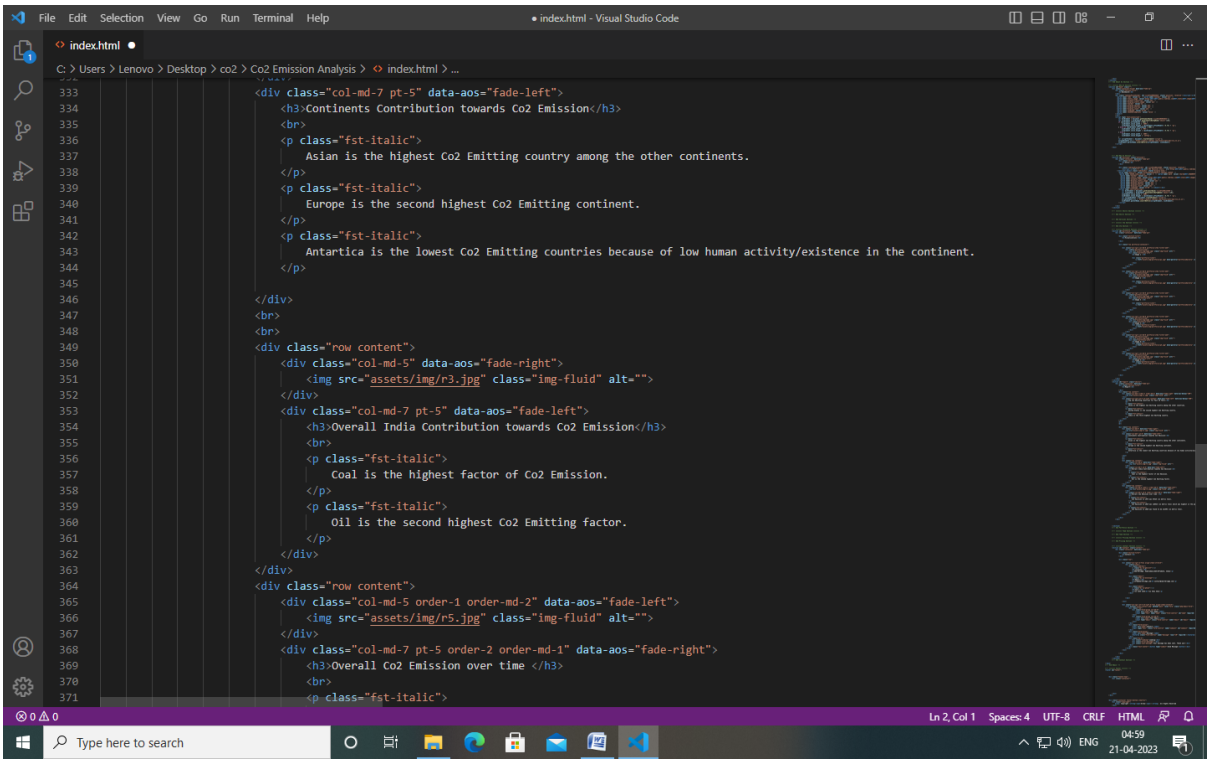

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                        <div class="col-md-7 pt-5" data-aos="fade-left">
                            <h3>Continents Contribution towards Co2 Emission</h3>
                            <br>
                            <p class="fst-italic">
                                Asian is the highest Co2 Emitting country among the other continents.
                            </p>
                            <p class="fst-italic">
                                Europe is the second highest Co2 Emitting continent.
                            </p>
                            <p class="fst-italic">
                                Antartica is the lowest Co2 Emitting countries because of low human activity/existence in the continent.
                            </p>

                        </div>
                        <br>
                        <br>
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                                <img src="assets/img/r3.jpg" class="img-fluid" alt="">
                            </div>
                            <div class="col-md-7 pt-5" data-aos="fade-left">
                                <h3>Overall India Contribution towards Co2 Emission</h3>
                                <br>
                                <p class="fst-italic">
                                    Coal is the highest factor of Co2 Emission.
                                </p>
                                <p class="fst-italic">
                                    Oil is the second highest Co2 Emitting factor.
                                </p>
                            </div>
                        </div>
                        <div class="row content">
                            <div class="col-md-5 order-1 order-md-2" data-aos="fade-left">
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                            </div>
                            <div class="col-md-7 pt-5 order-2 order-md-1" data-aos="fade-right">
                                <h3>Overall Co2 Emission over time </h3>
                                <br>
                                <p class="fst-italic">
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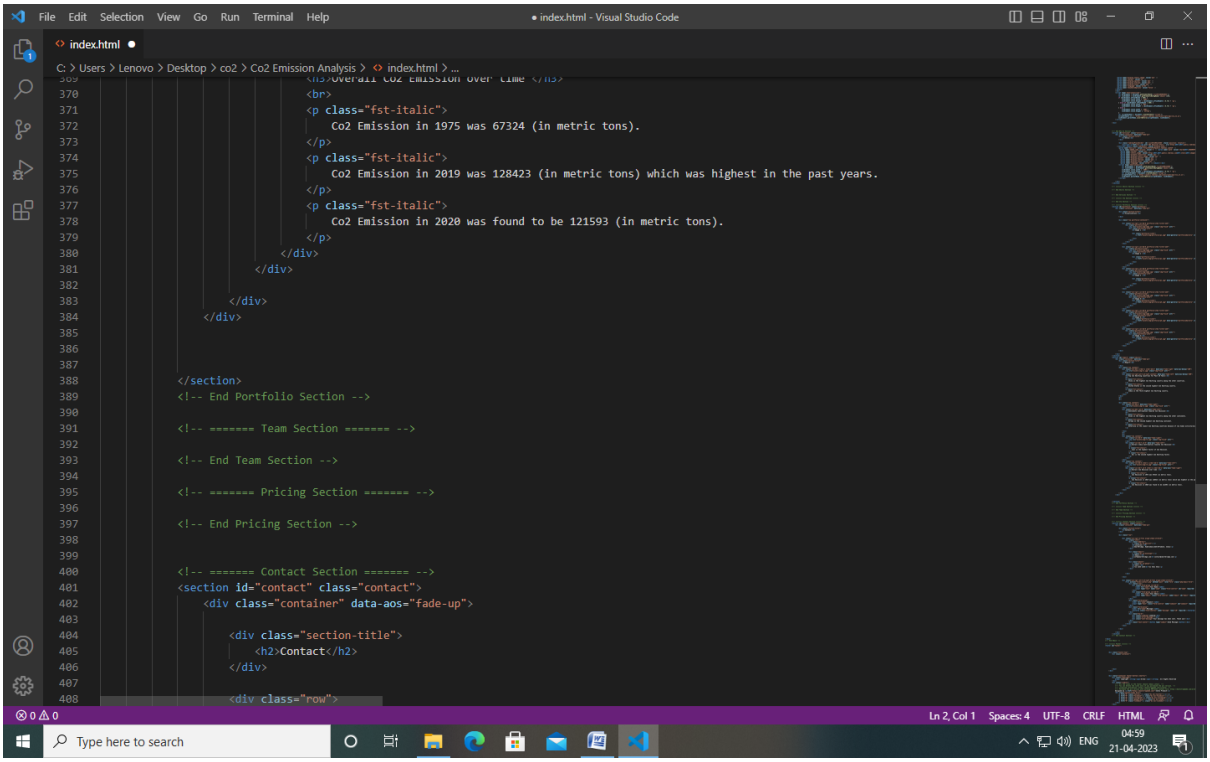
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Co2 Emission in 1975 was 67324 (in metric tons).

Co2 Emission in 2019 was 128423 (in metric tons) which was highest in the past years.

Co2 Emission in 2020 was found to be 121593 (in metric tons).

</section>
<!-- End Portfolio Section -->
<!-- ======= Team Section ======= -->
<!-- End Team Section -->
<!-- ======= Pricing Section ======= -->
<!-- End Pricing Section -->
<!-- ======= Contact Section ======= -->
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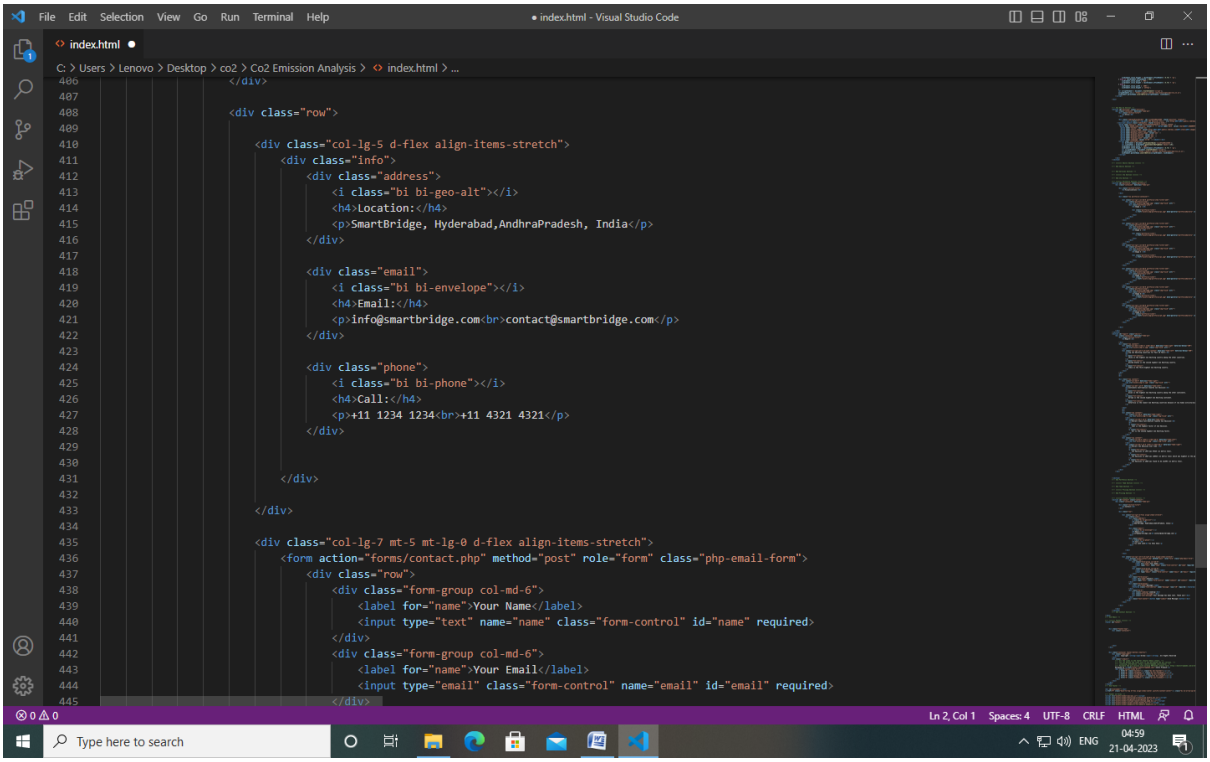
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<h4>Location:</h4>
SmartBridge, Hyderabad,AndhraPradesh, India

<h4>Email:</h4>
info@smartbridge.com
contact@smartbridge.com

<h4>Call:</h4>
+11 1234 1234
+11 4321 4321

<form action="forms/contact.php" method="post" role="form" class="php-email-form">

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<input type="text" name="name" class="form-control" id="name" required>

<label for="name">Your Email</label>
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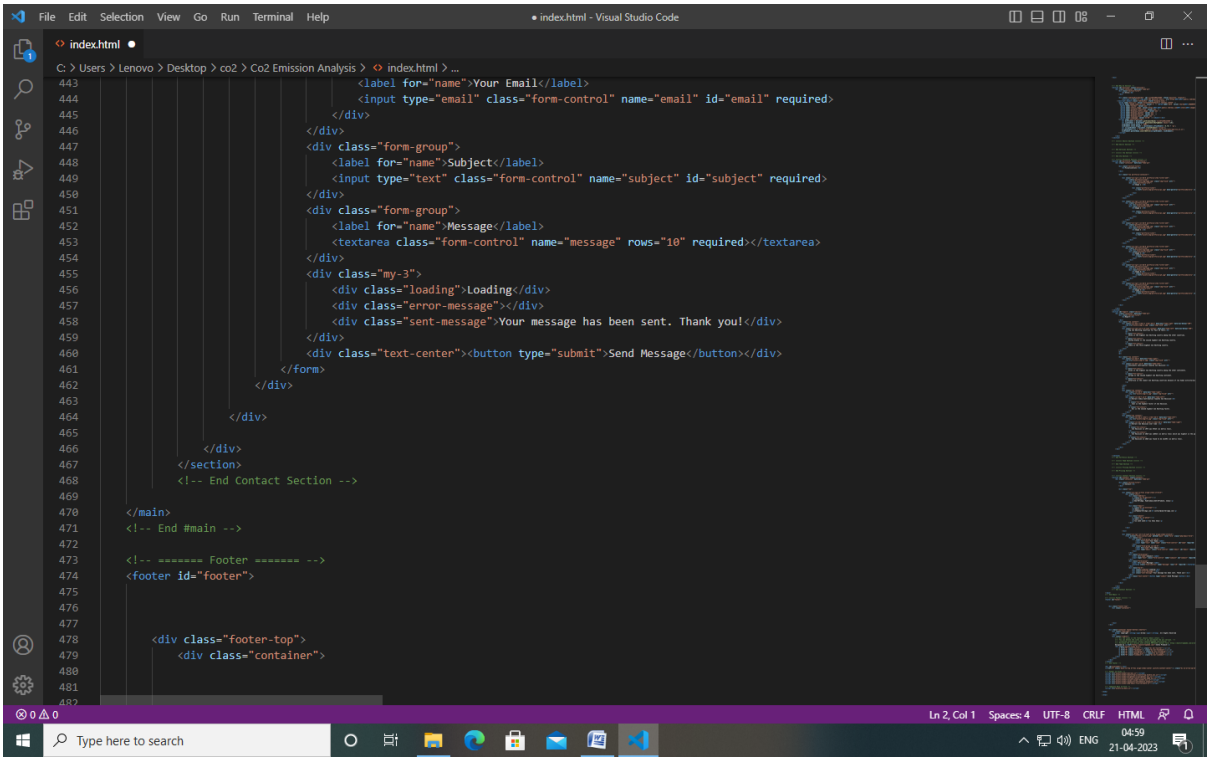
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<label for="name">Message</label>
<textarea class="form-control" name="message" rows="10" required></textarea>

Loading

Your message has been sent. Thank you!

<button type="submit">Send Message</button>
</form>

</section>
<!-- End Contact Section -->
</main>
<!-- End #main -->
<!-- ======= Footer ======= -->
<footer id="footer">

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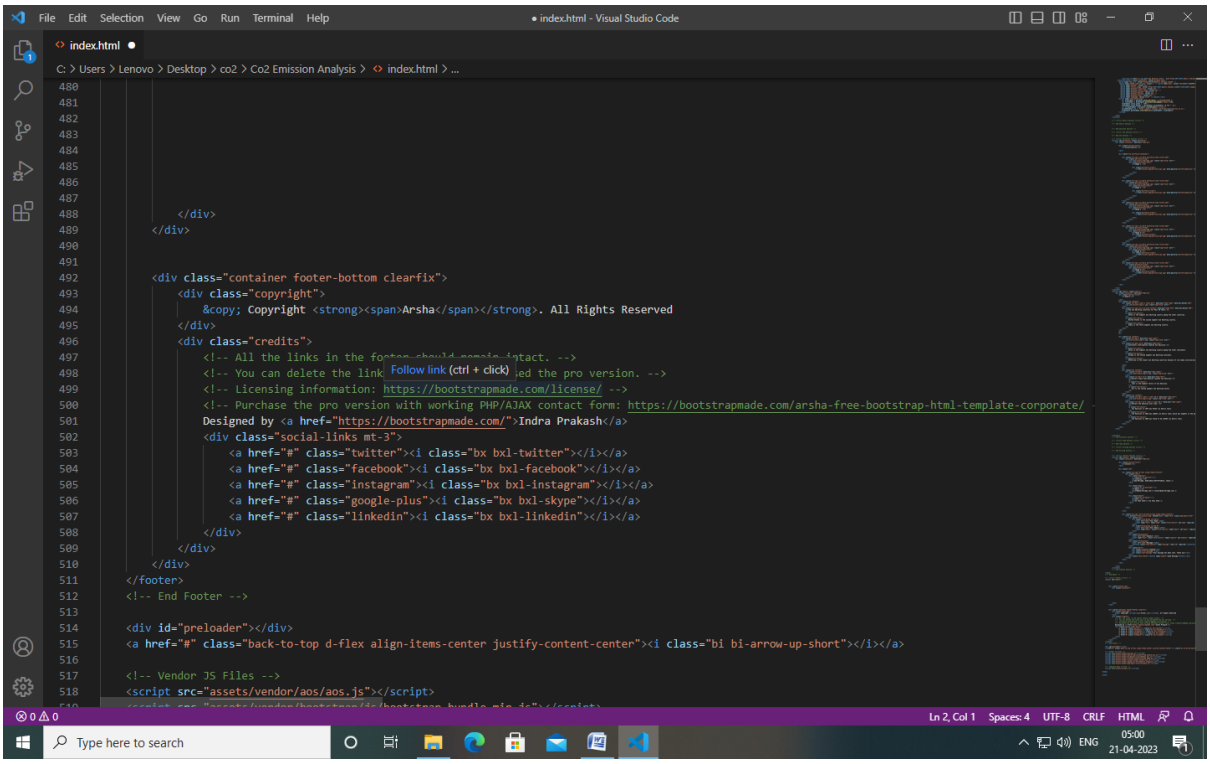
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Designed by Indra Prakash

</footer>
<!-- End Footer -->

<!-- Vendor JS Files -->
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