

CAP-785 CA-1

WEB PERFORMANCE OPTIMIZATION *ON* Website

SUBMIT DATE: - 15/02/2024

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ROLL NO: - 66

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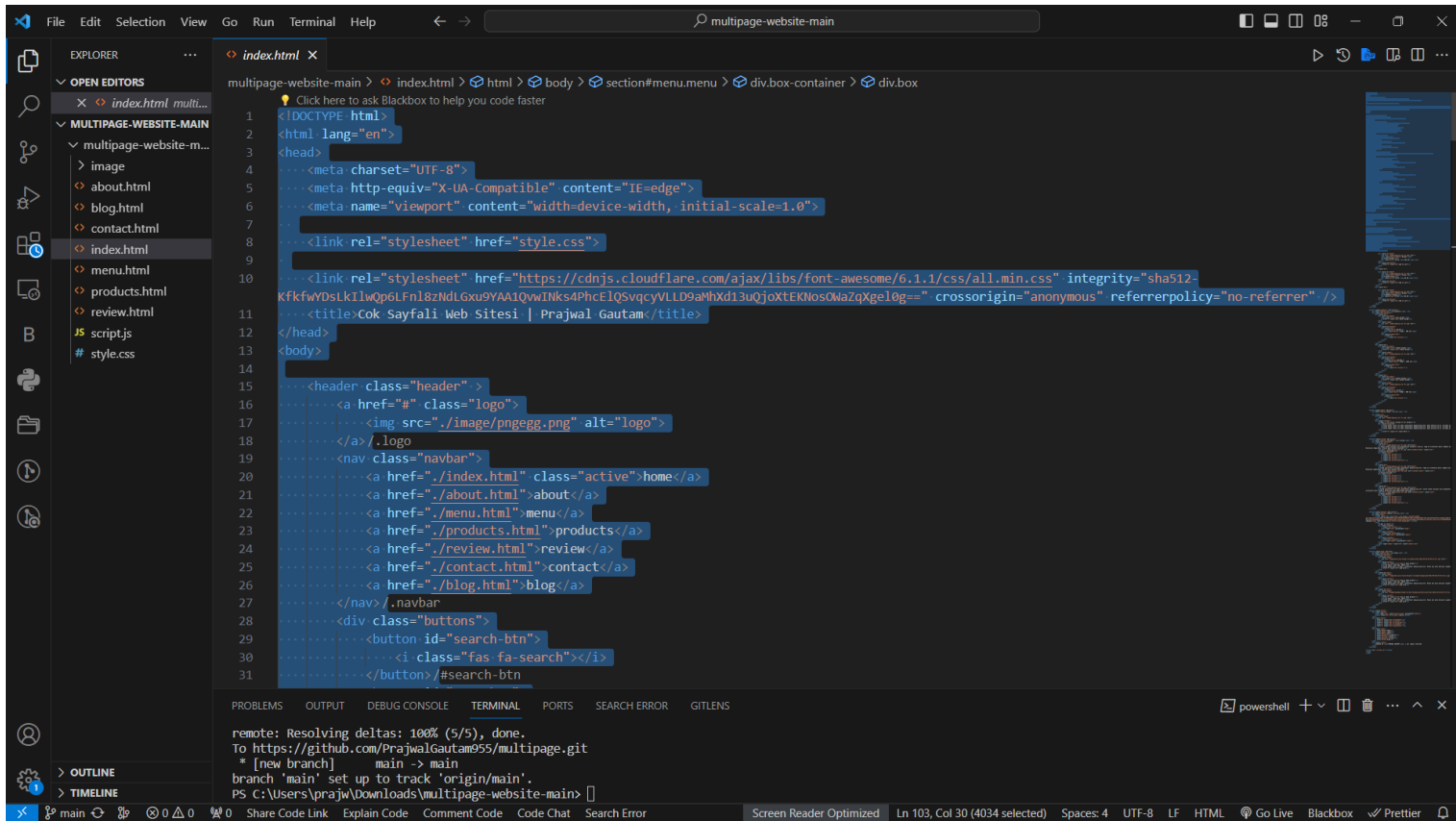


L OVELY
P ROFESSIONAL
U NIVERSITY

Question-1: - Prepare report of hosted website. Scope of website

1. Minimum 8 pages website, containing at least 20 different images of different formats like JPEG, GIF.

2. Traffic on website should be there



HTML PARTS

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <link rel="stylesheet" href="style.css">

  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.1.1/css/all.min.css" integrity="sha512-
KfkfwYDsLkIlwQp6LFn8zNdLGxu9YAA1QvwINKs4PhcElQSVqcyVLLD9aMhXd13uQjoXtEKNosOWaZqXgel0g=="
crossorigin="anonymous" referrerpolicy="no-referrer" />
  <title>Cok Sayfali Web Sitesi | Prajwal Gautam</title>
</head>
<body>

  <header class="header" >
    <a href="#" class="logo">
      
```

```
</a>
<nav class="navbar">
  <a href="./index.html" class="active">home</a>
  <a href="./about.html">about</a>
  <a href="./menu.html">menu</a>
  <a href="./products.html">products</a>
  <a href="./review.html">review</a>
  <a href="./contact.html">contact</a>
  <a href="./blog.html">blog</a>
</nav>
<div class="buttons">
  <button id="search-btn">
    <i class="fas fa-search"></i>
  </button>
  <button id="cart-btn">
    <i class="fas fa-shopping-cart"></i>
  </button>
  <button id="menu-btn">
    <i class="fas fa-bars"></i>
  </button>
</div>
<div class="search-form">
  <input type="text" class="search-input" id="search-box" placeholder="Search">
  <i class="fas fa-search"></i>
</div>
<div class="cart-items-container">
  <div class="cart-item">
    <i class="fas fa-times"></i>
    
    <div class="content">
      <h3>cart item 01</h3>
      <div class="price">150.99 </div>
    </div>
  </div>
  <div class="cart-item">
    <i class="fas fa-times"></i>
    
    <div class="content">
      <h3>cart item 02</h3>
      <div class="price">160.99 </div>
    </div>
  </div>
  <div class="cart-item">
    <i class="fas fa-times"></i>
    
    <div class="content">
      <h3>cart item 03</h3>
      <div class="price">130.99 </div>
    </div>
  </div>
  <div class="cart-item">
    <i class="fas fa-times"></i>
    
```

```
        <div class="content">
            <h3>cart item 04</h3>
            <div class="price">120.99 </div>
        </div>
    </div>
    <a href="#" class="btn">check out </a>
</div>
</header>
```

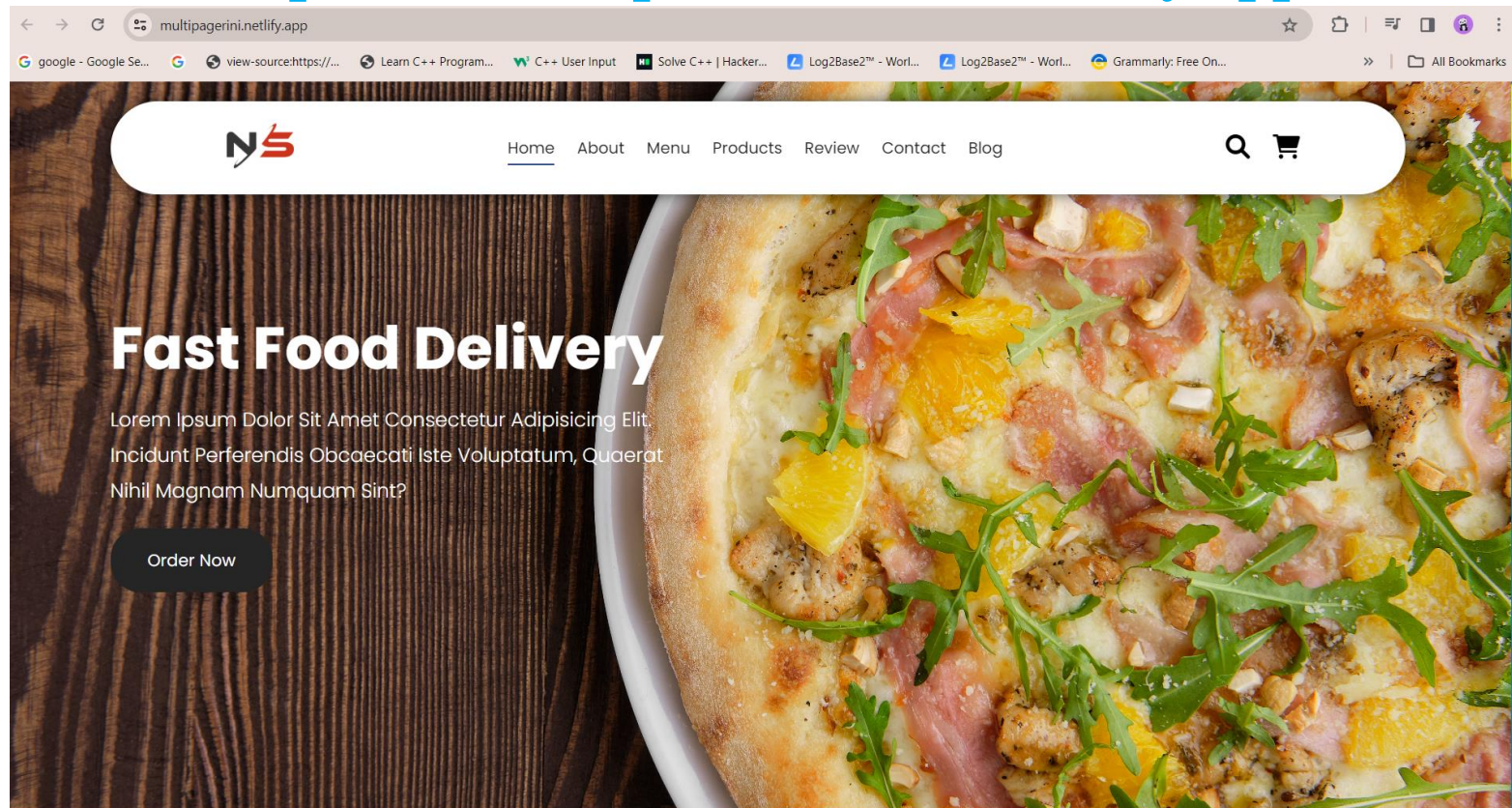
```
<section class="home" id="home">
    <div class="content">
        <h3>Fast Food Delivery</h3>
        <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Incidunt perferendis obcaecati
iste voluptatum, quaerat nihil magnam numquam sint? </p>
        <a href="#" class="btn">order now</a>
    </div>
</section>
```

```
<section class="menu" id="menu">
    <h1 class="heading">our <span>menu</span></h1>
    <div class="box-container">
        <div class="box">

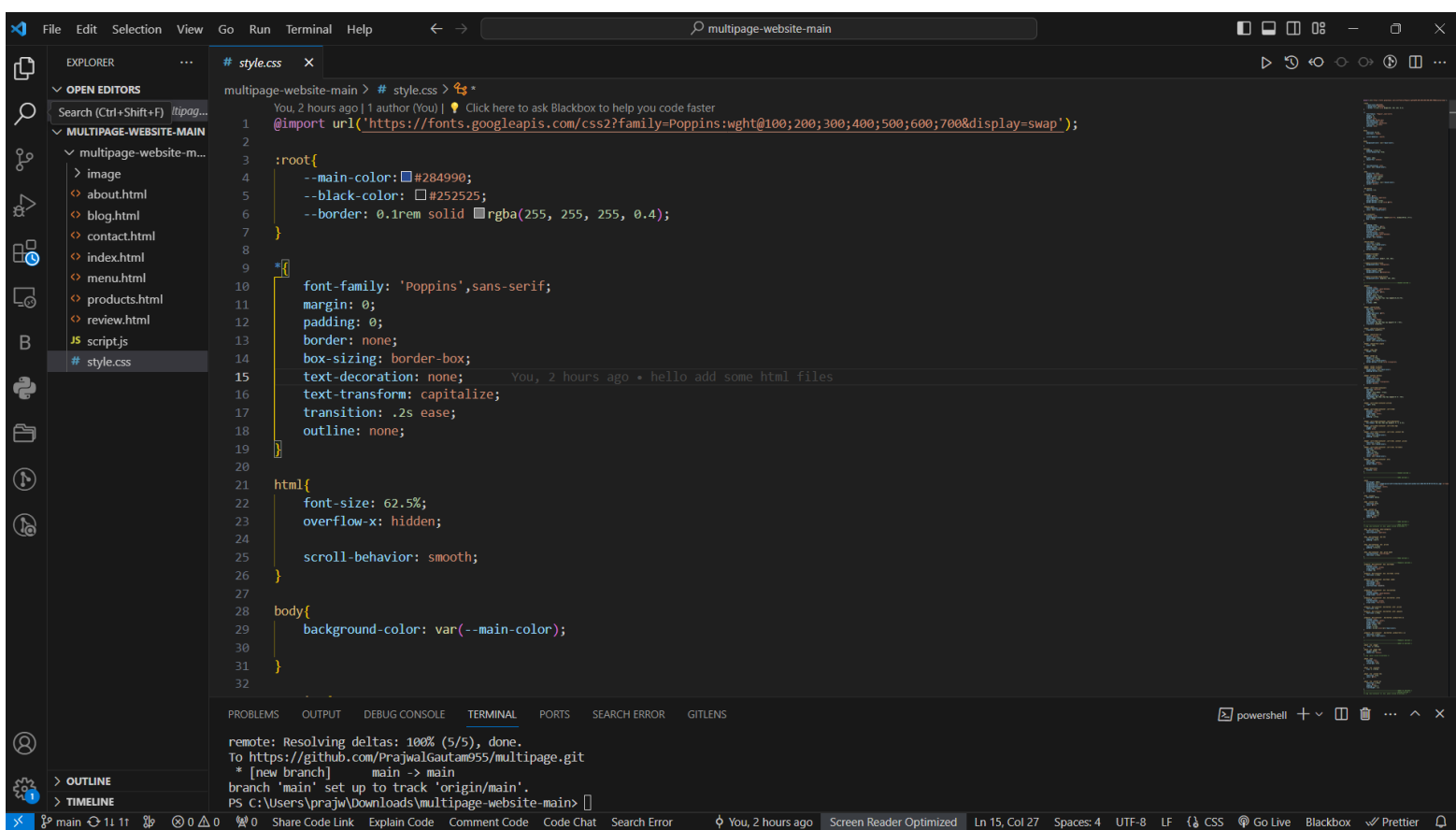
            <div class="box-head">
                
                <span class="menu-category">Pizza</span>
                <h3>6 Mini Pizzas</h3>
                <div class="price">104.99 <span>119.99</span></div>
            </div>
            <div class="box-bottom">
                <a href="#" class="btn">add to cart</a>
            </div>
        </div>
        <div class="box">
```

AFTER HOSTING WEBSITE LINK

<https://calm-creponne-1b03b7.netlify.app/>



QUESTION -2 Break down the CSS into smaller, modular files and use a CSS preprocessor like Sass or LESS to manage them efficiently. Also, eliminate unnecessary styles and use CSS minification tools to reduce file size. Inline critical CSS and JavaScript directly into the HTML document to eliminate HTTP requests for essential resources.



The image shows a Visual Studio Code editor window with a file named `style.css` open. The Explorer sidebar on the left shows a project structure for `MULTIPAGE-WEBSITE-MAIN` with files like `image`, `about.html`, `blog.html`, `contact.html`, `index.html`, `menu.html`, `products.html`, `review.html`, `script.js`, and `style.css`.

The `style.css` file contains the following CSS code:

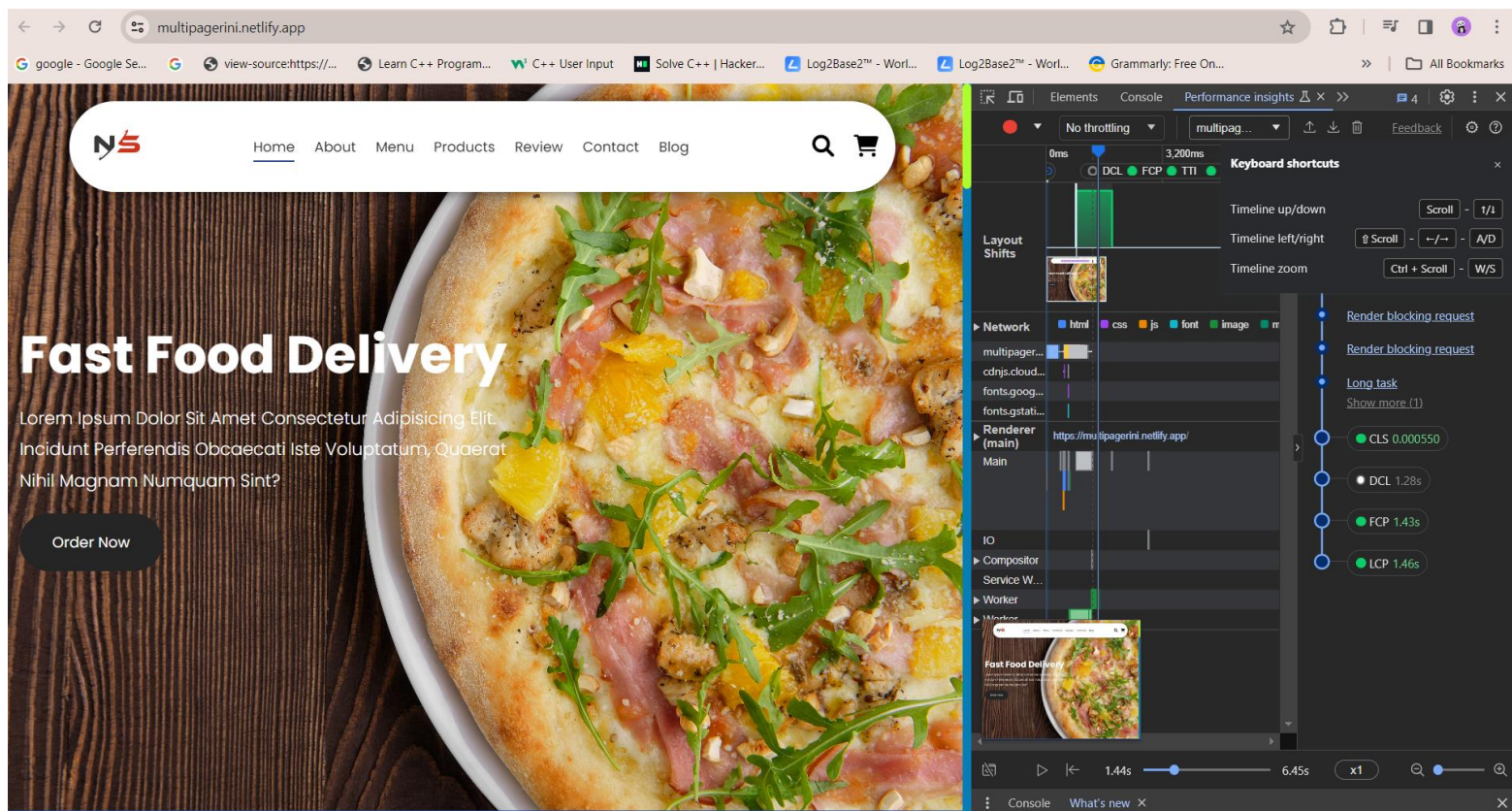
```
1 @import url('https://fonts.googleapis.com/css2?family=Poppins:wght@100;200;300;400;500;600;700&display=swap');
2
3 :root{
4   --main-color: #284990;
5   --black-color: #252525;
6   --border: 0.1rem solid #252525;
7 }
8
9 *{
10  font-family: 'Poppins', sans-serif;
11  margin: 0;
12  padding: 0;
13  border: none;
14  box-sizing: border-box;
15  text-decoration: none;
16  text-transform: capitalize;
17  transition: .2s ease;
18  outline: none;
19 }
20
21 html{
22  font-size: 62.5%;
23  overflow-x: hidden;
24
25  scroll-behavior: smooth;
26 }
27
28 body{
29  background-color: var(--main-color);
30 }
31
32
```

The bottom of the editor shows the TERMINAL panel with the following output:

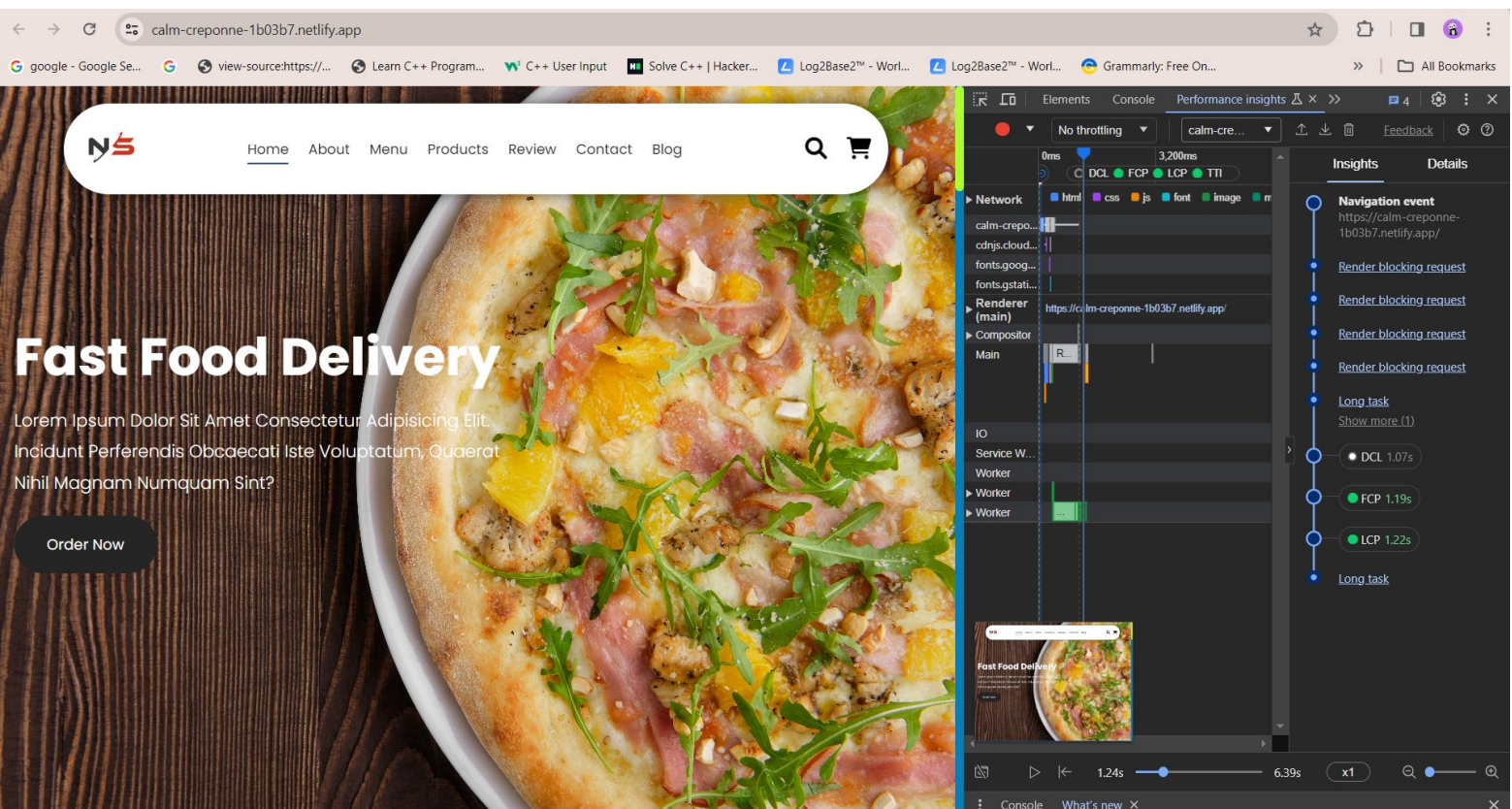
```
remote: Resolving deltas: 100% (5/5), done.
To https://github.com/PrajwalGautam955/multipage.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
PS C:\Users\prajw\Downloads\multipage-website-main>
```

The status bar at the bottom indicates the file is on the `main` branch, has 11 changes, and is using the `UTF-8` encoding with `LF` line endings. It also shows the file is a CSS file and is being edited with Prettier.

BEFORE OPTIMIZATION



AFTER OPTIMIZATION



QUESTION-3 Comparative Analysis of website (Unoptimized Vs Optimized) 1.Test the website performance using any two-testing platform2.Test and analyse it on various performance metrics i.e. FCP, LCP, TFB,Full Load time, waiting time etc (use the screenshots to show the performance parameter optimization)

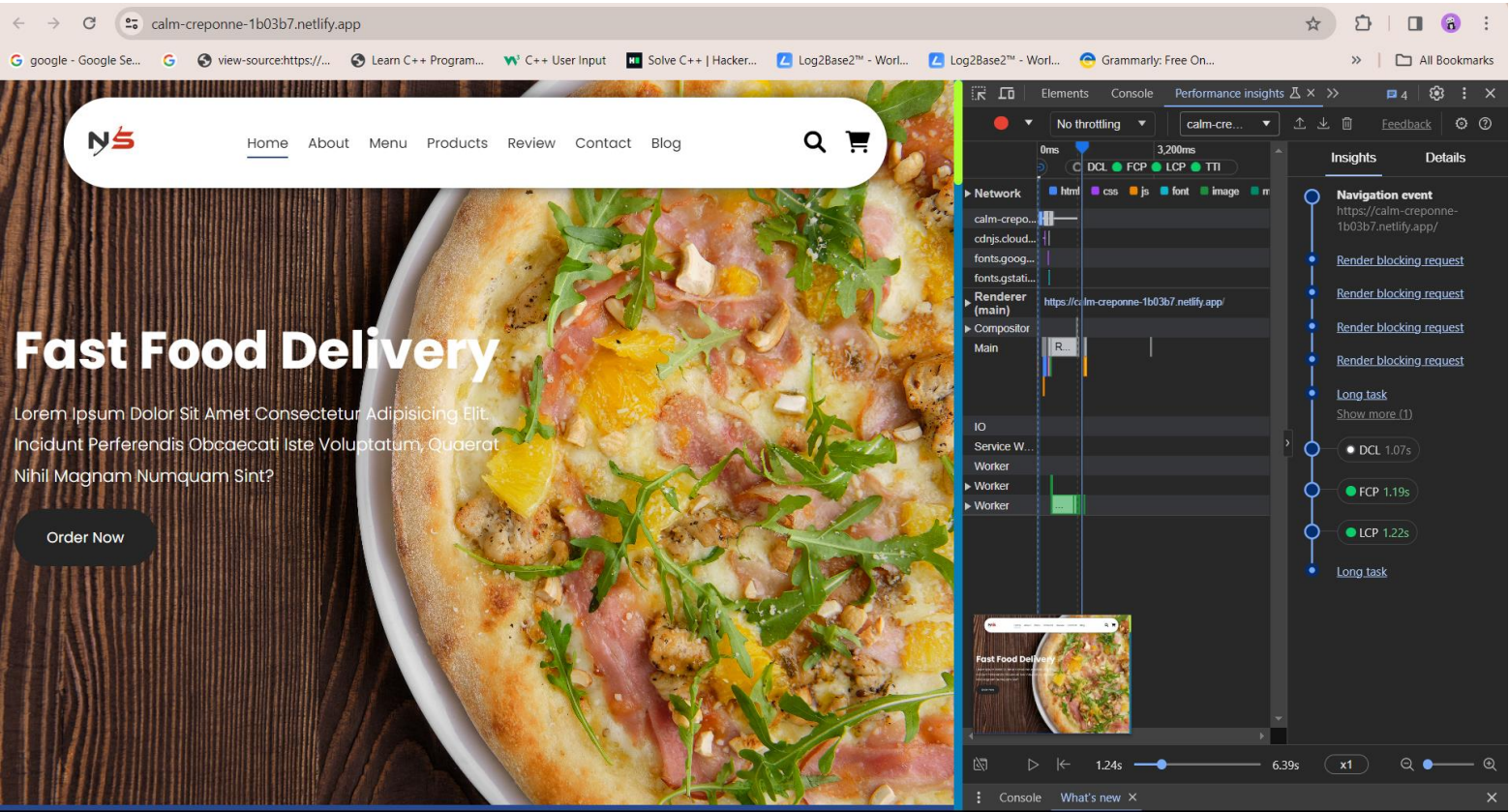


TABLE FOR TIMING PERFORMING OPTIMIZATION

	FCP	LCP	TFB	FULL LOAD TIME
BEFORE OPTIMIZATION TIME	1.43 SEC	1.46 SEC	1.15 SEC	6.50 SEC
AFYER OPTIMIZATION TIME	1.1 SEC	1.22 SEC	0.51 SEC	6.3 SEC

THANK YOU