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Aim: Implementation of HTML Web development

THEORY:

## What is HTML?

HTML (HyperText Markup Language) is the fundamental building block of the World Wide Web. It's a markup language used to:

• Create and structure content for web pages  
• Define the meaning and structure of web content  
• Enable the display of text, images, videos, and other multimedia

## Basic Concepts

### 1. Markup Language

HTML is not a programming language but a markup language that uses tags to annotate text and other content for display in web browsers.

### 2. Elements and Tags

HTML documents are made up of elements, which are represented by tags:

* Opening tag: <tagname>
* Content: The actual content to be displayed
* Closing tag: </tagname>

Example: <p>This is a paragraph.</p>

### 3. Document Structure

A basic HTML document has this structure:

<!DOCTYPE html>

<html>

<head>

<title>Page Title</title>

</head>

<body>

<!-- Content goes here -->

</body>

</html>

## Key Components

### 1. DOCTYPE Declaration

<!DOCTYPE html> defines the document type and HTML version (HTML5 in this case).

### 2. HTML Element

The <html> element is the root element that contains all other HTML elements.

### 3. Head Section

The <head> contains meta-information about the document:

* <title>: Sets the browser tab title
* <meta>: Provides metadata like character set, viewport settings
* <link>: Links to external resources like CSS
* <script>: Contains or links to JavaScript code

### 4. Body Section

The <body> contains all the visible content:

* Text elements (<h1> to <h6>, <p>, <span>, etc.)
* Media elements (<img>, <video>, <audio>)
* Structural elements (<div>, <section>, <header>, <footer>)
* Interactive elements (<a>, <button>, <form>)

## HTML Principles

1. Semantic HTML: Using elements that convey meaning about the content structure (like <article>, <nav>, <footer>)
2. Accessibility: Writing HTML that's accessible to all users, including those with disabilities
3. Separation of Concerns: Keeping content (HTML), presentation (CSS), and behavior (JavaScript) separate
4. Progressive Enhancement: Building from basic content to more complex features

## Evolution of HTML

• HTML 1.0 (1993): The first version  
• HTML 2.0 (1995): Standardized features  
• HTML 4.01 (1999): Added CSS support  
• XHTML (2000): XML-based strict version  
• HTML5 (2014): Current standard with multimedia, semantic elements, and APIs

CODE:

index.html

<!DOCTYPE html>

<html lang="en">

    <head>

        <meta charset="UTF-8" />

        <meta name="viewport" content="width=device-width, initial-scale=1.0" />

        <title>Document</title>

        <link rel="stylesheet" href="index.css" />

    </head>

    <body>

        <main>

            <h1>

                You have been invited to a

                <pre class="title">birthday party</pre>

            </h1>

            <form action="">

                <label for="name">

                    <span>Name :</span>

                    <input name="name" type="text" placeholder="Enter name" />

                </label>

                <label for="time">

                    <span>Time :</span>

                    <input name="time" type="text" placeholder="Enter time" />

                </label>

                <label for="place">

                    <span>Place :</span>

                    <input name="place" type="text" placeholder="Enter place" />

                </label>

                <section>

                    <button>Clear</button>

                    <button>Submit</button>

                </section>

            </form>

            <a href="gifts.html">Send Gift > </a>

        </main>

        <img src="cake.jpg" alt="" srcset="" />

    </body>

</html>

gift.html

<!DOCTYPE html>

<html lang="en">

    <head>

        <meta charset="UTF-8" />

        <meta name="viewport" content="width=device-width, initial-scale=1.0" />

        <title>My Wonderful Gifts</title>

        <link rel="stylesheet" href="index.css" />

    </head>

    <body>

        <main>

            <h1>🎁 Gifts Received So Far 🎀</h1>

            <ul>

                <li>🥭 Mangoes</li>

                <li>⌚ Watch</li>

                <li>🧢 Cap</li>

                <li>👕 T-Shirt</li>

                <li>📚 Book</li>

                <li>🎧 Headphones</li>

                <li>🍫 Chocolates</li>

                <li>🖼️ Picture Frame</li>

            </ul>

            <a href="index.html"> < Back</a>

        </main>

        <img src="cake.jpg" alt="Celebration cake" srcset="" />

    </body>

</html>

index.css

\* {

    margin: 0;

    padding: 0;

}

body {

    font-family: system-ui, -apple-system, BlinkMacSystemFont, "Segoe UI",

        Roboto, Oxygen, Ubuntu, Cantarell, "Open Sans", "Helvetica Neue",

        sans-serif;

    overflow-x: hidden;

    position: relative;

    display: flex;

    justify-content: center;

    align-items: center;

    width: 100vw;

    height: 100vh;

}

h1,

h2,

h3,

h4,

h5,

h6 {

    font-weight: normal;

    text-align: center;

}

main {

    border-radius: 12px;

    display: flex;

    flex-direction: column;

    gap: 2rem;

    color: #fff;

    padding: 2rem;

    background: rgba(255, 255, 255, 0.1);

    backdrop-filter: blur(10px);

    -webkit-backdrop-filter: blur(10px);

    border: 1px solid rgba(255, 255, 255, 0.2);

    box-shadow: 0 4px 30px rgba(0, 0, 0, 0.1);

}

form {

    display: flex;

    flex-direction: column;

    gap: 1rem;

    width: inherit;

}

label {

    display: flex;

    flex-direction: row;

    align-items: center;

    gap: 0.5rem;

}

span {

    font-size: large;

    width: 20%;

}

input {

    width: 100%;

    border-radius: 5px;

    padding: 0.35rem;

    font-size: medium;

}

section {

    width: 100%;

    display: flex;

    gap: 1rem;

    justify-items: center;

    align-items: center;

}

button {

    width: 100%;

    border-radius: 5px;

    padding: 0.35rem;

    font-size: medium;

    cursor: pointer;

}

img {

    z-index: -1;

    width: 100vw;

    height: 100vh;

    position: absolute;

    object-fit: cover;

    inset: 0;

}

a {

    color: #fff;

    text-decoration: none;

}

li {

    list-style-type: none;

    font-size: larger;

}

.title {

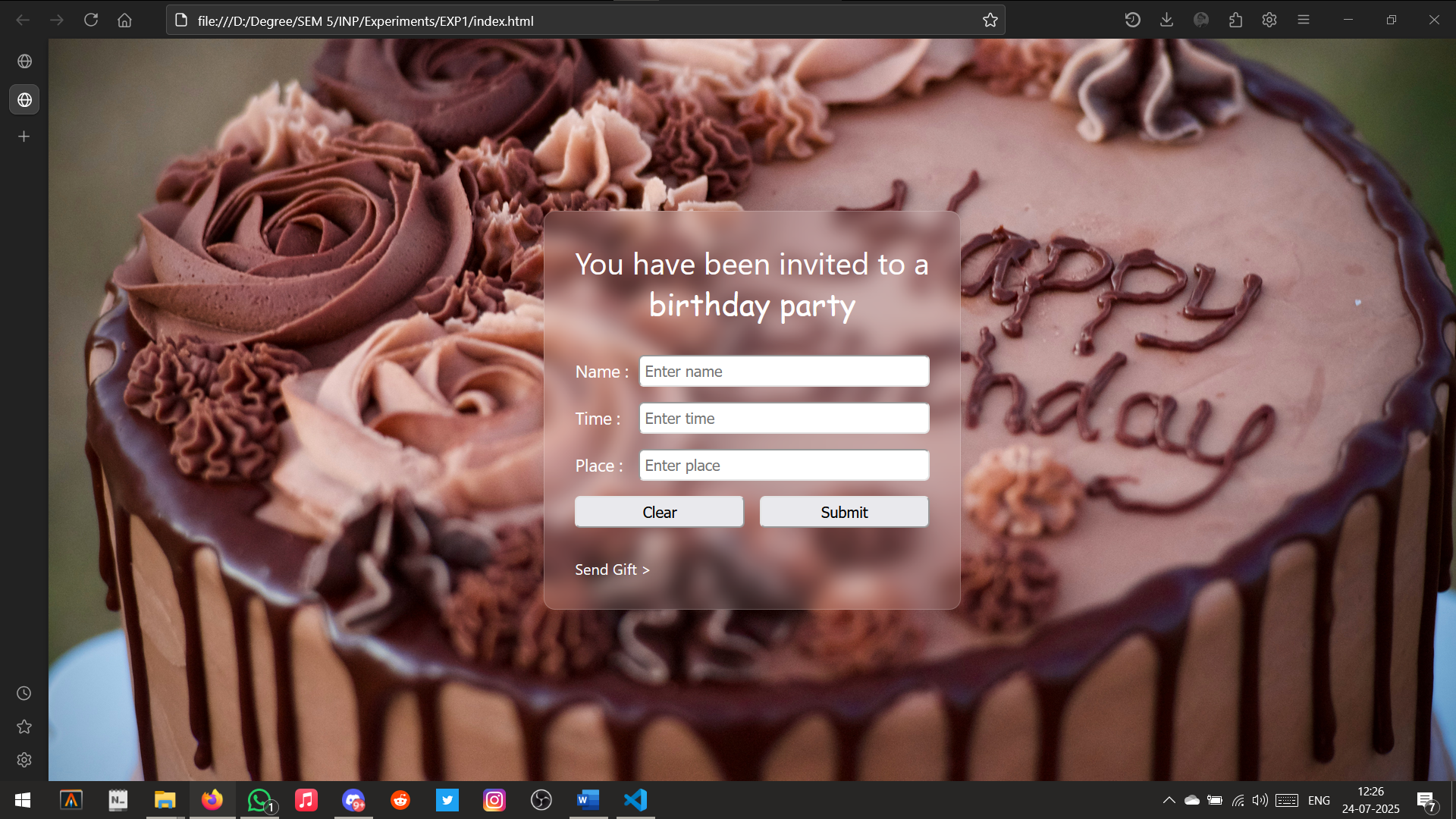
    text-align: center;

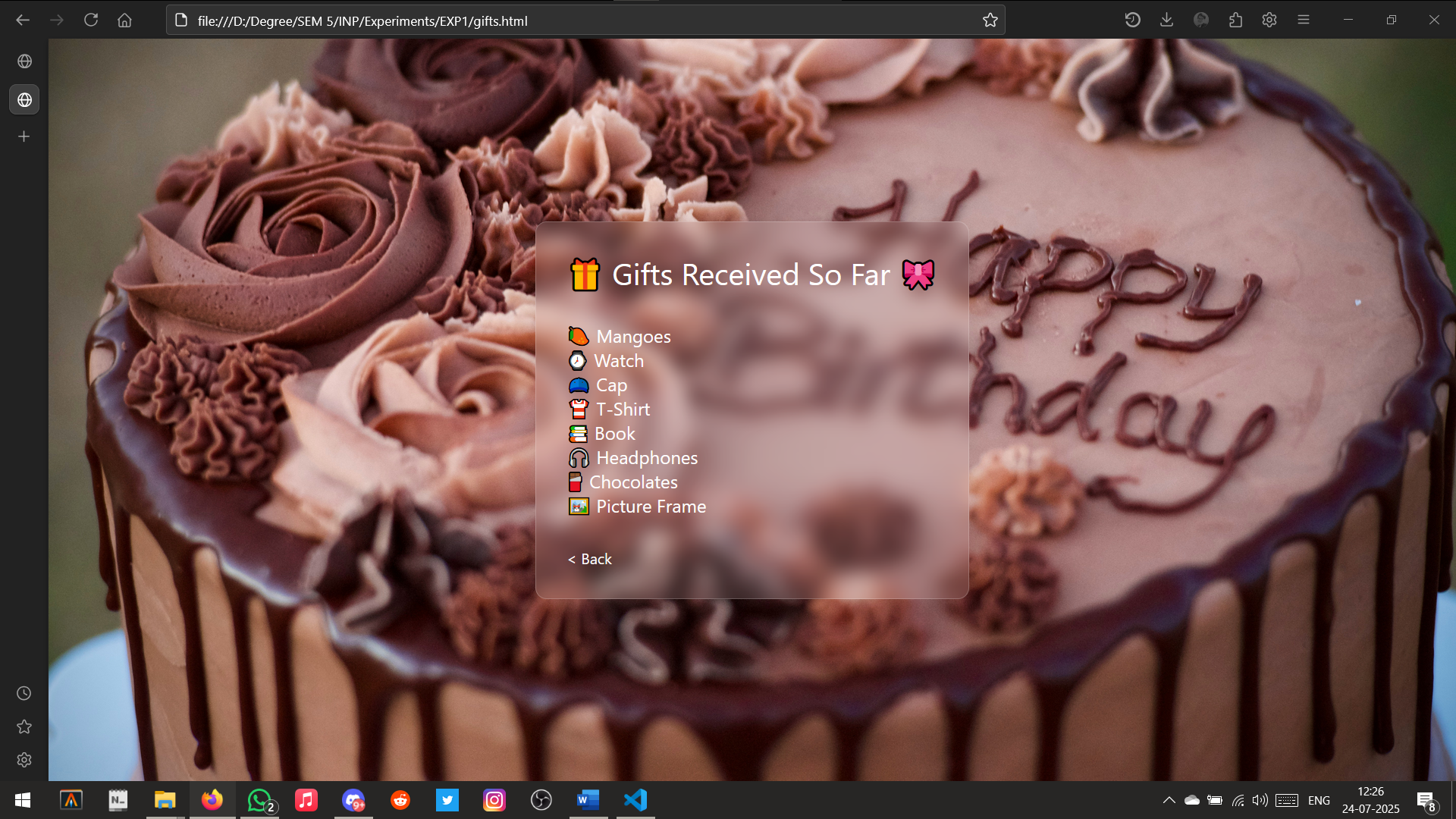
    font-size: xx-large;

    font-family: cursive;

}

OUTPUT:





CONCLUSION:

This experiment introduced HTML theory and practical implementation through a birthday invite project. We learned about HTML structure, tags (images, lists, tables, forms), and web development principles. The hands-on project demonstrated how to create structured, interactive web content using fundamental HTML elements effectively.