



**UNIVERSITY of INFORMATION
TECHNOLOGY and MANAGEMENT**
in Rzeszow, POLAND

FACULTY OF APPLIED INFORMATION TECHNOLOGY

Field Of Study: Information Technology
Specialty: Computer Science

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No. of student's record book: 69108

PROJECT

Course: Programming

Topic: Webpage

Rzeszow 2023

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Project explanation

The purpose of this documentation is to provide a comprehensive overview of the website project. The project aims to create a website that consists of three main pages: the Home page, the Series page, and the Hobbies page. Each page serves a distinct purpose, providing users with relevant information and engaging content.

1. Home Page: The Home page serves as the main entry point for visitors to the website. Its primary objective is to introduce the website.
2. Series Page: The Series page focuses on showcasing series, such as TV shows, web series, or movies, along with relevant information and resources.
3. Hobbies Page: The Hobbies page focuses on providing a showcase of the students hobbies which contain a slider.

Conclusion: In summary, this project involves the development of a website with a Home page, Series page, and Hobbies page. The Home page serves as an entry point, providing an opening to explore the series and hobbies sections. The Series page showcases various series, while the Hobbies page offers information and resources related to different hobbies. Together, these pages aim to provide an engaging and informative experience for users, encouraging them to explore, discover student's interests.

The code

HTML (Home Page):

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8" />
  <title>Home</title>
  <link rel="stylesheet" href="Styles.css">
</head>

<body>
  <header>
    <h1>Home Page</h1>
    <h2>AMIR JALILI DOUST</h2>
    <nav>
      <ul>
        <li><a href="hell.html">Homepage</a></li>
        <li><a href="hell2.html">Series</a></li>
        <li><a href="hell3.html">Hobbies</a></li>
        <li><a
href="https://en.uitm.edu.eu/">University</a></li>
```

```

        <li><a
href="https://www.w3schools.com/">Website for
learning</a></li>
    </ul>
</nav>
<hr>
</header>

<div class="container">
    <div class="letter">
        <h3><b>Ezio letter from Assassin's
Creed:</b></h3>
        <p>Claudia</b>, my dearest sister. I have been
in Acre a week now, safe and in high spirits, but prepared
for the worst.<br>
        <br>
        The men and women who have fed and sheltered
me here also give me warning that the road to Masyaf is
overrun by mercenaries and bandits not native to this
land. What this could mean, I dread to guess.<br>
        <br>
        When I first set out from Roma ten months ago,
I did so with a single purpose. To discover what our
father did not. In a letter written the year before my
birth he makes mention of a library hidden beneath the
stones of Masyaf castle. A sanctum full of invaluable
wisdom.<br>
        <br>
        So what will I find when I arrive there? Who
will greet me? A host of eager Templars, as I fear most
strongly? Or nothing but the whistling of a cold and
lonely wind?<br>
        <br>

```

Masyaf has not been home to the Assassins for almost three hundred years now. Can we still claim it for our own? Are we welcome there?

I am weary of this fight, Claudia. Not because I am tired, but because our struggle seems to move in one direction only. Towards chaos.

Today I have more questions than answers. This is why I have come so far. To find clarity. To find the wisdom left behind by the great Altaïr, so that I may better understand the purpose of our fight. And my place in it.

Should anything happen to me Claudia, should my skills fail me, or my ambition lead me astray, do not seek retribution or revenge in my memory, but fight to continue the search for truth, so that all may benefit.

My story is one of many thousands, and the world will not suffer if it ends too soon.

</p>

</div>

<div class="clock-container">

<div id="clock"></div>

</div>

</div>

<div class="slider-container">


```

        
        
        
        
        
        
        
    </div>

    <div class="slider-controls">
        <button id="prevBtn" class="slider-
button">&#8249;</button>
        <button id="nextBtn" class="slider-
button">&#8250;</button>
    </div>

    <script src="script.js"></script>
</body>
</html>

```

JS (Home Page):

```

(function () {
    const sliderContainer = document.querySelector('.slider-
container');
    const images =
sliderContainer.getElementsByTagName('img');
    let currentIndex = 0;

    function showImage(index) {
        for (let i = 0; i < images.length; i++) {

```



```

        images[i].style.display = 'none';
    }
    images[index].style.display = 'block';
}

function slideNext() {
    currentIndex = (currentIndex + 1) %
images.length;
    showImage(currentIndex);
}

function slidePrevious() {
    currentIndex = (currentIndex - 1 +
images.length) % images.length;
    showImage(currentIndex);
}

function attachButtonEvents() {
    const prevBtn = document.getElementById('prevBtn');
    const nextBtn = document.getElementById('nextBtn');

    prevBtn.addEventListener('click', slidePrevious);
    nextBtn.addEventListener('click', slideNext);
}

function updateClock() {
    var currentTime = new Date();
    var hours = currentTime.getHours();
    var minutes = currentTime.getMinutes();
    var seconds = currentTime.getSeconds();

    hours = (hours < 10 ? "0" : "") + hours;
    minutes = (minutes < 10 ? "0" : "") + minutes;
    seconds = (seconds < 10 ? "0" : "") + seconds;

```

```
    var clockElement = document.getElementById("clock");
    clockElement.textContent = hours + ":" + minutes + ":"
+ seconds;
    }

    attachButtonEvents();
    setInterval(slideNext, 10000);
    setInterval(updateClock, 1000);
  })();
```

CSS (Home Page):

```
h1 {
  color: white;
  text-decoration: dotted;
}

h2 {
  font-size: large;
}

h3 {
  font-size: larger;
  font-family: Arial, Helvetica, sans-serif;
}

p {
```

```
    font-family: 'Franklin Gothic Medium', 'Arial Narrow',  
Arial, sans-serif;  
    font-size: large;  
    text-align: justify;  
}  
  
body {  
    font-family: Arial, sans-serif;  
    margin: 0;  
    padding: 0;  
    background-image: url("13.jpg");  
    background-size: cover;  
    background-position: center;  
    display: flex;  
    flex-direction: column;  
    align-items: center;  
    justify-content: center;  
    min-height: 100vh;  
}  
  
header {  
    background-color: #ee4141;  
    color: #fff;  
    padding: 20px;  
    position: sticky;  
    top: 0;  
    z-index: 999;  
    width: 100%;  
    box-sizing: border-box;  
}  
  
nav ul {  
    list-style-type: none;
```

```
padding: 0;
}

nav ul li {
  display: inline;
  margin-left: 10px;
}

nav ul li a {
  color: #fff;
  text-decoration: none;
}

.slider-container {
  width: 80%;
  max-width: 600px;
  height: 400px;
  overflow: hidden;
  margin-bottom: 20px;
  position: relative;
  box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);
  border-radius: 10px;
}

.slider-container img {
  width: 100%;
  height: 100%;
  object-fit: cover;
  border-radius: 10px;
}

.slider-controls {
  text-align: center;
```

```
}

.slider-button {
  display: inline-block;
  padding: 10px 20px;
  font-size: 16px;
  font-weight: bold;
  color: #fff;
  background-color: #333;
  border: none;
  border-radius: 4px;
  cursor: pointer;
  transition: background-color 0.3s ease;
}

.slider-button:hover {
  background-color: #555;
}

.container {
  display: flex;
  justify-content: space-between;
  align-items: flex-start;
  padding: 20px;
}

.letter {
  text-align: left;
  background-color: rgb(241, 241, 241);
  border-radius: 5px;
  padding: 10px;
  box-shadow: 0 2px 4px rgba(0, 0, 0, 0.1);
  font-style: italic, bold;
}
```

```

}

.clock-container {
  background-color: #ff5050;
  border-radius: 5px;
  padding: 10px;
  box-shadow: 0 2px 4px rgba(0, 0, 0, 0.1);
  text-align: right;
}

#clock {
  font-size: 24px;
  font-weight: bold;
}

```

HTML (Series):

```

<!DOCTYPE html>
<html lang="en">

<head>
  <title>Series</title>
  <link rel="stylesheet" type="text/css"
href="styles2.css">
  <script src="script2.js"></script>
</head>
<body>
  <header>
    <h1>Series Showcase</h1>
    <div id="current-time"></div>

```

```

    <h3>AMIR JALILI DOUST</h3>
    <nav>
        <ul>
            <li><a href="hell.html">Homepage</a></li>
            <li><a href="hell2.html">Series</a></li>
            <li><a href="hell3.html">Hobbies</a></li>
            <li><a
href="https://en.uitm.edu.eu/">University</a></li>
            <li><a
href="https://www.w3schools.com/">Website for
learning</a></li>
        </ul>
    </nav>
    <hr>
</header>

<main>
    <section>
        <div class="series-box">
            <div class="series-photo">
                
            </div>
            <div class="series-description">
                <h2>Vikings</h2>
                <p><i>"Vikings" is a historical drama series
inspired by the Norse legends and the sagas of Viking
Ragnar Lothbrok. The show depicts the adventures of
legendary Norsemen as they explore and raid different
parts of Europe during the Viking Age. Led by fierce
warriors like Ragnar Lothbrok and his sons, the Vikings
face both internal power struggles and external conflicts
with rival kingdoms. With its mix of historical events and
fictional storytelling, "Vikings" offers a thrilling and


```

```

gritty portrayal of the Viking culture, battles, and
exploration during a tumultuous era.</i></p>
    </div>
</div>
</section>

<section>
    <div class="series-box">
        <div class="series-photo">
            
        </div>
        <div class="series-description">
            <h2>The Last Of Us</h2>
            <p><i>"The Last of Us" is a post-apocalyptic
action-adventure video game series developed by Naughty
Dog. Set in a world devastated by a fungal infection that
turns humans into aggressive creatures, the series follows
the journey of Joel, a smuggler, and Ellie, a young girl
with a mysterious immunity to the infection. Together,
they navigate dangerous environments, encounter hostile
survivors, and form a deep bond as they strive to survive
and find hope in this brutal world.</i></p>
        </div>
    </div>
</section>

<section>
    <div class="series-box">
        <div class="series-photo">
            
        </div>
        <div class="series-description">
            <h2>The Witcher</h2>

```



```
<p><i>"The Witcher" is a fantasy series based on  
the book series of the same name by Andrzej Sapkowski. It  
follows the story of Geralt of Rivia, a monster hunter  
known as a Witcher, who possesses supernatural abilities.  
Geralt roams through a medieval-inspired world known as  
the Continent, where he battles monsters, unravels  
political intrigues, and navigates complex relationships.  
With its rich lore, complex characters, and moral  
ambiguity, "The Witcher" series offers a captivating blend  
of fantasy, action, and drama.</i></p>
```

```
</div>  
</div>  
</section>  
</main>  
</body>  
</html>
```

JS (Series):

```
window.onload = function() {  
    displayCurrentTime();  
    setInterval(displayCurrentTime, 1000);  
};  
  
function displayCurrentTime() {  
    var currentTimeElement =  
document.getElementById("current-time");  
    const now = new Date();  
    const hours = String(now.getHours()).padStart(2, "0");
```

```

    const minutes = String(now.getMinutes()).padStart(2,
"0");
    const seconds = String(now.getSeconds()).padStart(2,
"0");
    currentTimeElement.textContent = "Current Time: " +
`${hours}:${minutes}:${seconds}`;
}

```

CSS (Series):

```

body {
    margin: 0;
    padding: 0;
    font-family: Arial, sans-serif;
    background-image: url("13.jpg");
    background-size: cover;
    background-position: center;
}

header {
    background-color: #ee4141;
    color: #fff;
    padding: 20px;
    position: sticky;
    top: 0;
    z-index: 999;
    width: 100%;
    box-sizing: border-box;
}

h1 {

```

```
    margin: 0;
}

#current-time {
    position: absolute;
    top: 20px;
    right: 20px;
}

main {
    padding: 20px;
}

section {
    margin-bottom: 20px;
}

.series-box {
    background-color: rgb(241, 241, 241);
    padding: 20px;
    border-radius: 8px;
    box-shadow: 0 2px 4px rgba(0, 0, 0, 0.1);
    display: flex;
}

.series-photo {
    flex: 50%;
    margin-right: 20px;
    border-radius: 8px;
    overflow: hidden;
    box-shadow: 0 2px 4px rgba(0, 0, 0, 0.2);
}
```

```
.series-photo img {
    display: block;
    max-width: 100%;
    border-radius: 8px;
}

.series-description {
    flex: 1 1 auto;
}

h2 {
    color: darkred;
}

img {
    max-width: 100%;
}

p {
    margin-top: 10px;
    font-size: larger;
    text-align: justify;
}

nav ul {
    list-style-type: none;
    padding: 0;
}

nav ul li {
    display: inline;
    margin-left: 10px;
}
```

```

nav ul li a {
    color: #fff;
    text-decoration: none;
}

h3 {
    font-size: large;
}

```

HTML (Hobbies):

```

<!DOCTYPE html>
<html lang="en">

<head>
    <title>Hobbies</title>
    <link rel="stylesheet" type="text/css"
href="Styles3.css">
</head>

<body>
    <header>
        <h1>Hobbies</h1>
        <div id="current-time"></div>
        <h2>AMIR JALILI DOUST</h2>
        <nav>
            <ul>
                <li><a href="hell.html">Homepage</a></li>
                <li><a href="hell2.html">Series</a></li>
                <li><a href="hell3.html">Hobbies</a></li>
            </ul>
        </nav>
    </header>

```

```

        <li><a
href="https://en.uitm.edu.eu/">University</a></li>
        <li><a href="https://www.w3schools.com/">Website
for learning</a></li>
    </ul>
</nav>
<hr>
</header>

<div class="wrapper">
    <div class="letter-box">
        <h2>My Hobbies:</h2>
        <p>Video gaming is my ultimate passion and top
hobby. It transports me to captivating virtual worlds
where I can embark on thrilling adventures, solve
intricate puzzles, and engage in intense multiplayer
battles. From strategic decision-making to heart-pounding
action, video games offer endless entertainment and a
chance to unwind.

        In addition to gaming, I find fulfillment in
boxing and fishing. Boxing challenges my physical and
mental strength, honing my technique, discipline, and
endurance. It teaches me valuable life lessons about
perseverance and self-belief. On the other hand, fishing
provides a serene escape to nature, allowing me to
recharge and find tranquility. Whether it's landing a big
catch or simply enjoying the peacefulness of the water,
these hobbies enrich my life and bring me joy in different
ways.</p>
    </div>
</div>

```

```

<div class="slider-container">
  <div class="slider">
    <div class="slide">
      
      <div class="description">
        <h2>Video Games</h2>
        <p><i>Video gaming is more than just a hobby for me; it's an immersive escape into captivating virtual worlds, a source of entertainment that fuels my imagination and connects me with a vibrant community of like-minded individuals. From epic quests and heart-pounding battles to the thrill of competitive multiplayer, I relish the diverse genres, engaging narratives, and stunning visuals that video games offer, all while honing my cognitive skills and fostering meaningful social interactions.</i></p>
      </div>
    </div>
    <div class="slide">
      
      <div class="description">
        <h2>Boxing</h2>
        <p><i>Boxing is not just a hobby for me; it's a passionate pursuit that fuels my determination and embodies the perfect combination of physicality, discipline, and mental fortitude. Stepping into the ring, I immerse myself in the art of strategic combat, honing my technique, agility, and strength. With each powerful punch, precise footwork, and defensive maneuver, I push myself to new limits, constantly striving to improve my skills and overcome challenges. Beyond the physicality, boxing instills in me a deep sense of discipline, resilience, and focus, as I continuously push through

```

```

obstacles, learn from defeats, and celebrate victories.
The ring becomes my sanctuary, where I unleash my inner
warrior, embracing the exhilaration and camaraderie that
comes with this demanding yet deeply rewarding
sport.</i></p>
    </div>
</div>
<div class="slide">
    
    <div class="description">
        <h2>Fishing</h2>
        <p><i>Fishing is a serene and immersive
experience that connects me with nature and provides a
much-needed escape from the hustle and bustle of daily
life. As I cast my line into tranquil waters, I embrace
the anticipation and excitement that comes with the
possibility of reeling in a prized catch. Whether standing
at the edge of a peaceful lake or navigating the gentle
currents of a river, I am captivated by the tranquility
and beauty that surrounds me. Fishing allows me to
appreciate the delicate balance of ecosystems, observing
the diverse marine life and the interconnectedness of the
natural world. It's a time of reflection and solitude, as
I find solace in the rhythmic casting, the gentle breeze,
and the sounds of nature. Each catch is not just a
triumph, but a testament to patience, skill, and respect
for the environment.</i></p>
    </div>
</div>
</div>

<div class="slider-controls">
    <button class="prev-btn">&#10094;</button>

```



```

    <button class="next-btn">&#10095;</button>
  </div>
</div>

<script src="script3.js"></script>
</body>

</html>

```

JS (Hobbies):

```

document.addEventListener("DOMContentLoaded", function() {
  const slider = document.querySelector(".slider");
  const slides = document.querySelectorAll(".slide");
  const prevBtn = document.querySelector(".prev-btn");
  const nextBtn = document.querySelector(".next-btn");
  const description =
document.querySelectorAll(".description");
  const currentTime = document.getElementById("current-
time");

  let counter = 0;
  const slideWidth = slides[0].clientWidth;

  slider.style.transform = `translateX(${ -slideWidth *
counter}px)`;

  description[counter].style.display = "block";

  nextBtn.addEventListener("click", () => {
    if (counter >= slides.length - 1) return;

```

```

        counter++;
        slider.style.transform = `translateX(${ -slideWidth *
counter}px)`;
        resetDescriptionDisplay();
        description[counter].style.display = "block";
    });

    prevBtn.addEventListener("click", () => {
        if (counter <= 0) return;
        counter--;
        slider.style.transform = `translateX(${ -slideWidth *
counter}px)`;
        resetDescriptionDisplay();
        description[counter].style.display = "block";
    });

    function resetDescriptionDisplay() {
        description.forEach((desc) => {
            desc.style.display = "none";
        });
    }

    function updateTime() {
        const now = new Date();
        const hours = String(now.getHours()).padStart(2,
"0");
        const minutes = String(now.getMinutes()).padStart(2,
"0");
        const seconds = String(now.getSeconds()).padStart(2,
"0");
        currentTime.textContent = "Current Time: " +
`${hours}:${minutes}:${seconds}`;
    }

```

```
setInterval(updateCurrentTime, 1000);

updateCurrentTime();
});
```

CSS (Hobbies):

```
body {
  margin: 0;
  padding: 0;
  font-family: Arial, sans-serif;
  background-image: url("13.jpg");
  background-size: cover;
  background-position: center;
}

h1 {
  color: white;
  text-decoration: dotted;
}

h2 {
  font-size: large;
}

.slider-container {
  width: 100%;
  height: calc(100vh - 20px - 20px - 40px); /**/
  margin: 20px 0;
  overflow: hidden;
```

```
    position: relative;
    border-radius: 10px;
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.3);
  }

.new-section {
  width: 30%;
  height: 100%;
  padding: 20px;
  box-sizing: border-box;
}

.slider {
  width: 300%;
  height: 100%;
  display: flex;
  transition: transform 0.5s ease-in-out;
}

.slide {
  width: 33.33%;
  height: 100%;
  position: relative;
}

.slide img {
  width: 100%;
  height: 100%;
  object-fit: cover;
}

.description {
  background-color: rgba(0, 0, 0, 0.7);
```

```
    color: #fff;
    position: absolute;
    bottom: 0;
    left: 0;
    width: 100%;
    height: 40%;
    padding: 10px;
    display: none;
    border-bottom-left-radius: 10px;
    border-bottom-right-radius: 10px;
    overflow-y: auto;
}

.description h2 {
    margin: 0;
    font-weight: bold;
    margin-top: -5px;
}

.description p {
    margin: 0;
    font-size: larger;
    text-align: justify;
    margin-top: 5px;
}

.description.first-slide {
    bottom: auto;
    top: 0;
}

.slider-controls {
    display: flex;
```

```

    justify-content: space-between;
    margin-top: 10px;
    position: absolute;
    top: 45%;
    transform: translateY(-50%);
    width: 100%;
    z-index: 1;
}

.slider-controls .prev-btn {
    color: white;
    background-color: rgba(0, 0, 0, 0.5);
    border: none;
    font-size: 18px;
    padding: 10px;
    border-radius: 5px;
    margin: 0 5px 0 0;
}

.slider-controls .next-btn {
    color: white;
    background-color: rgba(0, 0, 0, 0.5);
    border: none;
    font-size: 18px;
    padding: 10px;
    border-radius: 5px;
    margin: 0 0 0 5px;
}

header {
    background-color: #ee4141;
    color: #fff;
    padding: 20px;

```

```
    position: sticky;
    top: 0;
    z-index: 999;
    width: 100%;
    box-sizing: border-box;
}

#current-time {
    position: absolute;
    top: 20px;
    right: 20px;
}

nav ul {
    list-style-type: none;
    padding: 0;
}

nav ul li {
    display: inline;
    margin-left: 10px;
}

nav ul li a {
    color: #fff;
    text-decoration: none;
}

p {
    font-size: larger;
    text-align: justify;
}
```

```
.wrapper {
  float: left;
  justify-content: space-between;
  align-items: flex-start;
  padding: 20px;
}

.letter-box {
  text-align: left;
  background-color: rgb(241, 241, 241);
  border-radius: 5px;
  padding: 10px;
  box-shadow: 0 2px 4px rgba(0, 0, 0, 0.1);
  font-style: italic, bold;
}
```

Code explanation

Elements used in code:

HTML (Home Page):

- doctype declaration
- html element

- head element
- meta element
- title element
- link element (for CSS)
- body element
- header element
- h1 element
- h2 element
- nav element
- ul element
- li element
- a element (multiple)
- hr element
- div element (multiple)
- h3 element
- b element
- p element

JS (Home Page):

- Immediately Invoked Function Expression (IIFE) wrapper
- querySelector method
- getElementsByTagName method
- let variable declaration
- for loop
- style property (display, block)
- addEventListener method
- setInterval method
- Date object
- getHours method
- getMinutes method
- getSeconds method
- textContent property

CSS (Home Page):

- h1 selector
- h2 selector
- h3 selector
- p selector
- body selector
- header selector
- nav ul selector
- nav ul li selector
- nav ul li a selector
- .slider-container class selector
- .slider-container img selector
- .slider-controls class selector
- .slider-button class selector
- .container class selector
- .letter class selector
- .clock-container class selector
- #clock id selector

HTML (Series):

- doctype declaration
- html element
- head element
- title element
- link element (for CSS)
- script element
- body element
- header element
- h1 element
- div element
- h3 element
- nav element
- ul element
- li element
- a element (multiple)

- hr element
- main element
- section element (multiple)
- div element (multiple)
- h2 element (multiple)
- p element (multiple)

JS (Series):

- window.onload event
- setInterval function
- getElementById method
- Date object
- getHours method
- getMinutes method
- getSeconds method
- padStart method
- textContent property

CSS (Series):

- body selector
- header selector
- h1 selector
- #current-time id selector
- main selector
- section selector (multiple)
- .series-box class selector (multiple)
- .series-photo class selector
- .series-photo img selector
- .series-description class selector
- h2 selector
- img selector
- p selector

- nav ul selector
- nav ul li selector
- nav ul li a selector
- h3 selector

Explanation:

1. **<!DOCTYPE html>**: This is the doctype declaration, which specifies that the document conforms to the HTML5 standard. It ensures that the browser interprets the code correctly.
2. **<html>**: The **<html>** element serves as the root element of an HTML page. It encapsulates all other elements and represents the entire HTML document.
3. **<head>**: The **<head>** element contains metadata and other head elements such as the title, character encoding, stylesheets, and scripts. It

provides information about the document to the browser and search engines.

4. **<meta charset="utf-8">**: This **<meta>** tag specifies the character encoding for the document as UTF-8. UTF-8 is a widely used character encoding standard that supports a wide range of characters from different languages.

5. **<title>**: The **<title>** element defines the title of the webpage, which appears in the browser's title bar or tab. It helps users identify and distinguish the webpage when multiple tabs are open.

6. **<link rel="stylesheet" href="Styles.css">**: This **<link>** element is used to link an external CSS file named "Styles.css" to the HTML document. It allows the styles defined in the CSS file to be applied to the HTML content, ensuring consistent and organized presentation.

7. **<body>**: The **<body>** element represents the content of the webpage. All visible content,

including text, images, and interactive elements, is placed within this element. It defines the main section that users see and interact with.

8. **<header>**: The **<header>** element represents the header section of the webpage. It typically contains introductory content, branding, and navigation menus. The header often appears at the top of the page and provides users with essential information and navigation options.

9. **<h1>**, **<h2>**, **<h3>**: These heading elements (**<h1>**, **<h2>**, **<h3>**) are used to define different levels of headings. They represent the main titles, section headings, and subheadings, respectively. Headings contribute to the structure and hierarchy of the webpage's content.

10. **<nav>**: The **<nav>** element defines a section containing navigation links. It is commonly used to create menus or lists of links for easy navigation within the webpage or to other pages. The **<nav>** element helps users find and access different sections or pages of the website.

11. ****: The **** element defines an unordered (bullet) list. It groups related items together and displays them as a list without any specific order. Each item is represented by the **** element.
12. ****: The **** element represents a list item within an ordered or unordered list (**** or ****). It defines individual items in the list, and multiple **** elements create a list of items.
13. ****: The **<a>** element creates a hyperlink with the specified URL. The **href** attribute determines the target destination of the link. Users can click on the hyperlink to navigate to another webpage, a specific section within the same page, or perform other actions.
14. **<hr>**: The **<hr>** element inserts a horizontal rule (a thematic break) in the content. It creates a visible line or divider, often used to separate

sections or visually distinguish content within a webpage.

15. **<div>**: The **<div>** element is a generic container element used for grouping and styling content. It has no inherent semantic meaning but is valuable for organizing and structuring the layout of a webpage. You can apply CSS classes or IDs to **<div>** elements to style them or manipulate their content.
16. ****: The **** element inserts an image into the webpage. The **src** attribute specifies the image source (URL or file path), and the **alt** attribute provides alternative text that is displayed if the image fails to load or for accessibility purposes.
17. **<script src="..."></script>**: This **<script>** element includes an external JavaScript file (script.js) in the HTML document. JavaScript files contain code that provides interactivity and dynamic behavior to webpages. By linking the script file, the browser can execute the JavaScript code.

CSS Selectors and Properties (Styles):

1. **h1, h2, h3, p**: These are CSS selectors used to target specific HTML elements. In this case, they select heading and paragraph elements. Styles defined for these selectors will affect the appearance of these elements throughout the webpage.
2. **body**: This CSS selector targets the entire body of the webpage. Styles applied to this selector will modify the overall appearance of the webpage, such as background color, font, or spacing.
3. **header**: This CSS selector targets the header element. Styles defined for this selector will modify the appearance of the header section, allowing customization of its background, alignment, or other visual properties.

4. **nav ul, nav ul li, nav ul li a**: These CSS selectors target specific elements within the navigation section. **nav ul** selects the unordered list within the navigation, **nav ul li** selects each list item within the navigation, and **nav ul li a** selects the anchor tags within the list items. Styles applied to these selectors will affect the appearance of the navigation menu.

5. **.slider-container, .slider-container img, .slider-controls, .slider-button**: These CSS selectors target elements related to the image slider. **.slider-container** selects the container element for the slider, **.slider-container img** targets the images within the slider, **.slider-controls** selects the controls for navigating the slider, and **.slider-button** targets specific buttons within the slider. Styles defined for these selectors will modify the appearance and behavior of the image slider component.

6. **.container, .letter, .clock-container, #clock**: These CSS selectors target elements related to the letter content and clock display. **.container**

selects a container element, **.letter** targets specific elements related to letters, **.clock-container** selects the container for the clock display, and **#clock** targets a specific element with the ID "clock." Styles defined for these selectors will affect the appearance and layout of these elements.

JavaScript:

1. **window.onload** and **setInterval**: These are JavaScript functions related to the timing and execution of code. **window.onload** ensures that the code inside it runs when the webpage finishes loading, ensuring that the required resources are available before executing the JavaScript code. **setInterval** is a function that repeatedly executes a block of code at a specified interval, allowing for periodic updates or actions.

2. **document.getElementById**, **document.querySelector**, **document.getElementsByTagName**: These are JavaScript methods for selecting and

manipulating HTML elements. **document.getElementById** retrieves an element based on its unique ID attribute. **document.querySelector** selects the first element that matches a specified CSS selector. **document.getElementsByTagName** selects elements based on their tag name. These methods enable access to specific elements, allowing for modifications or interactions.

3. **textContent**, **style.display**: These are properties used to modify the content and style of HTML elements. **textContent** is a property that allows manipulation of the text content within an element. It can be used to update or retrieve the text displayed to the user. **style.display** is a property that controls the visibility of an element. It can be set to "none" to hide an element or to other values to make it visible or adjust its display behavior.

4. **String.padStart**: This is a method used to add leading zeros to time values. It is applied to a

string and allows for formatting and padding of the string with specified characters or values. In this case, it ensures that the time value has two digits for hours, minutes, and seconds, providing a consistent and visually appealing display.

Conclusion

In conclusion, this project involved the development of a dynamic and visually appealing webpage utilizing HTML, CSS, and JavaScript. The webpage features an image slider, a navigation menu, a letter content section, and a clock display. Through the use of HTML elements, CSS styles, and JavaScript functions, the webpage achieves interactivity and an engaging user experience.

The HTML markup defines the structure of the webpage, with elements such as headers, navigation, lists, and containers. CSS styles are applied to enhance the visual presentation, providing customizations to fonts, colors, layouts, and

backgrounds. JavaScript code adds dynamic behavior, allowing for timed updates, content manipulation, and event handling.

The image slider component showcases a series of images, controlled by navigation buttons. The navigation menu offers seamless access to different sections of the webpage. The letter content section provides an interactive experience with the ability to reveal hidden content. The clock display adds a real-time element, keeping the user informed of the current time.

Throughout the development process, key concepts such as HTML elements, CSS selectors, properties, and JavaScript methods were utilized. Proper structuring of the HTML markup, application of CSS styles, and implementation of JavaScript functionality were essential for creating the desired webpage layout and behavior.

In conclusion, this project demonstrates the integration of HTML, CSS, and JavaScript to create an engaging and interactive webpage. By combining

these technologies effectively, the webpage provides a visually appealing design, user-friendly navigation, dynamic content, and real-time updates.