

# Digital Portfolio



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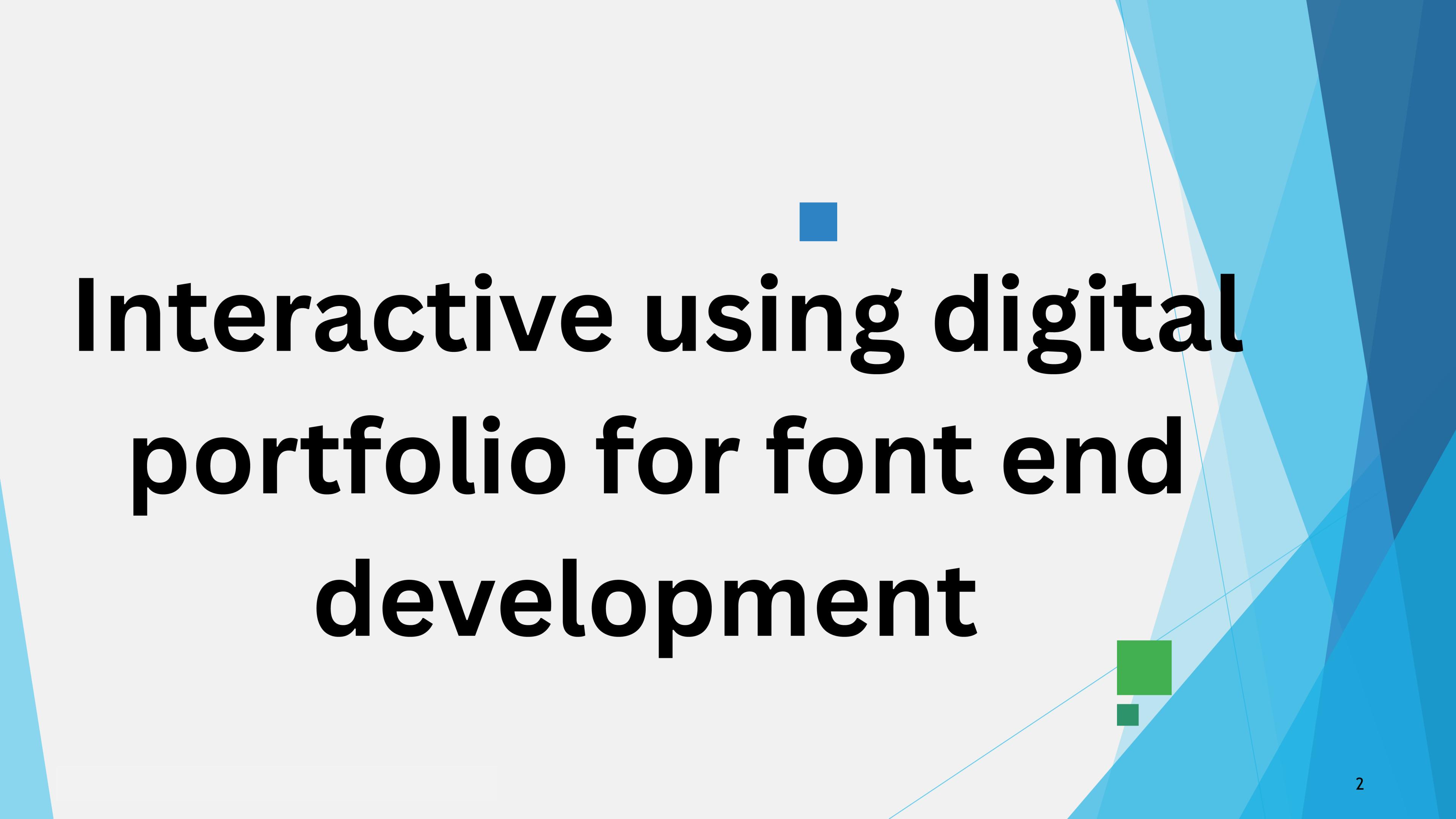
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DEPARTMENT: B.S.C COMPUTER SCIENCE

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Interactive using digital  
portfolio for font end  
development

# AGENDA

1. Problem Statement
2. Project Overview
3. End Users
4. Tools and Technologies
5. Portfolio design and Layout
6. Features and Functionality
7. Results and Screenshots
8. Conclusion
9. Github Link



# PROBLEM STATEMENT

Lack of simple engaging games  
for beginners to learn web  
development

Need for interactive visual  
project

Requirement of hands-on  
learning approach



# PROJECT OVERVIEW

This project is a simple train animation game built using HTML, CSS, and JavaScript.

The user can start the train and watch it move along the track.



# WHO ARE THE END USERS?

Students learning web development

Teachers demonstrating basic web  
animations

Kids who enjoy simple online games

Beginners exploring HTML, CSS, JS  
projects



# TOOLS AND TECHNIQUES



HTML - Structure of the game

CSS - Styling and design

JavaScript - Train movement and  
interactivity

Browser Execution environment

# POTFOLIO DESIGN AND LAYOUT



# FEATURES AND FUNCTIONALITY

Animated moving train

Start button control

Simple and colorful design

Easy to understand codebase

# RESULTS AND SCREENSHOTS



The screenshot shows a code editor interface with three tabs: HTML, CSS, and JS. The HTML tab contains the structure of a web page with a title 'Train Game' and a div class 'train'. The CSS tab defines styles for the train's engine and coaches, including a linear gradient background and a relative position. The JS tab contains a script that moves the train when the 'Start Stop Btn' is clicked. Below the code editor is a preview window titled 'Train Game' showing a red engine and two blue coaches on a track, with a 'Stop Train' button at the bottom.

```
HTML
7 <meta charset="UTF-8">
8
9 <meta name="viewport" content="width=device-width, initial-scale=1.0">
10
11 <title>Train Game</title>
12
13 <link rel="stylesheet" href="style.css">
14
15 </head>
16
17 <body>
18
19 <h1>Train Game</h1>
20
21
22 <div class="track">
23
24 <div class="train">
25   <div class="engine"></div>
26
27   <div class="coach"></div>
28
29   <div class="coach"></div>
30
31   <div class="coach"></div>
32
33 </div>
34
35 </div>
36
37 </div>
```

```
CSS
7 text-align: center;
8
9 font-family: Arial, sans-serif;
10
11 background: linear-gradient(to top, #87ceeb, #e0f7fa);
12
13 }
14
15 h1 {
16   margin: 20px;
17 }
18
19 .track {
20   position: relative;
21   width: 100%;
22   height: 150px;
23   background-color: #444;
24   border-top: 10px solid #222;
25   border-bottom: 10px solid #222;
26   overflow: hidden;
27 }
28
29
30
31
32
33
34
35
36
37 }
```

```
JS
document.querySelector('.train');
2
3 let button = document.getElementById("startStopBtn");
4
5 let isMoving = false;
6
7 let position = 0;
8
9 let speed = 2;
10
11 let interval;
12
13 button.addEventListener("click", () => {
14   if (!isMoving) {
15     button.textContent = "Stop Train";
16     isMoving = true;
17     interval = setInterval(() => {
18       position += speed;
19       train.style.left = position + "px";
20       if (position > window.innerWidth) {
21         position = -200;
22         // reset train when it goes off screen
23       }
24     }, 100);
25   }
26 });
27
28
29
30
31
32
33
34
35
36
37 }
```

# CONCLUSION

This project demonstrates how simple web technologies can be combined to create interactive applications.

It is useful for learning and portfolio building