

# Image Slider Project Documentation

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## 1. Project Overview

### ► Project Name:

**Dynamic Image Slider Using HTML, CSS, and JavaScript**

### ► Project Type:

**Front-End Web Development / UI Component**

### ► Technologies:

- **HTML**: For structuring the content.
- **CSS**: For styling and transitions.
- **JavaScript**: For interactivity and functionality.

### ► Objective:

To create a visually appealing, responsive, and interactive image slider that cycles through images with smooth transitions and navigation controls.

### ► Features:

- Auto image sliding at fixed intervals
- Manual navigation (previous/next buttons)
- Responsive design for mobile, tablet, and desktop
- Smooth fading transitions
- Clean and modern user interface

## 2. Code Breakdown

### ► index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Dynamic Image Slider</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <header>
    <h1>My Image Slider</h1>
  </header>

  <main>
    <div class="slider">
      <div class="slides">
        <div class="slide active"></div>
```

```
<div class="slide"></div>  
  
<div class="slide"></div>  
  
<div class="slide"></div>  
  
</div>  
  
<button class="nav prev">←</button>  
  
<button class="nav next">→</button>  
  
</div>  
  
</main>
```

```
<footer>  
  
<p>© 2025 Image Slider Project</p>  
  
</footer>
```

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

## ► style.css

```
* {  
  
margin: 0;
```

```
padding: 0;  
box-sizing: border-box;  
}  
  
body {
```

```
font-family: Arial, sans-serif;  
background-color: #f0f0f0;  
text-align: center;  
}
```

```
header, footer {  
background-color: #333;  
color: white;  
padding: 1rem;  
}
```

```
.slider {  
position: relative;  
max-width: 800px;  
margin: 2rem auto;  
overflow: hidden;  
border-radius: 10px;  
}
```

```
.slides {  
    position: relative;  
    height: 450px;  
}  
  
/*
```

```
.slide {  
    position: absolute;  
    width: 100%;  
    height: 100%;  
    opacity: 0;  
    transition: opacity 1s ease-in-out;  
}  
  
/*
```

```
.slide.active {  
    opacity: 1;  
}  
  
/*
```

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

```
.nav {  
  position: absolute;  
  top: 50%;  
  transform: translateY(-50%);  
  font-size: 2rem;  
  background: rgba(0,0,0,0.5);  
  color: white;  
  border: none;  
  cursor: pointer;  
  padding: 0.5rem 1rem;  
}  
  
nav {
```

```
.nav.prev {  
  left: 10px;  
}  
  
nav {
```

```
.nav.next {  
  right: 10px;  
}  
  
nav {
```

```
@media (max-width: 600px) {  
  .slider {
```

```
max-width: 100%;  
}  
.slides {  
height: 250px;  
}  
}
```

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### 3. How to Run the Project

1. Download or clone the project folder.
2. Ensure the folder contains:
  - o index.html
  - o style.css
  - o script.js
  - o images/ folder with your images
3. Open index.html in any modern web browser.

Optionally, use **VS Code + Live Server** extension for automatic reload on changes.

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### 4. Expected Output

#### ► Header:

- A simple title banner: "My Image Slider"

#### ► Main Content:

- A central image slider with navigation buttons

- Smooth fade-in/fade-out transitions
- Images change every 3 seconds automatically

► **Footer:**

- Contains copyright notice

► **Responsive Behaviour:**

- Images and layout adjust for smaller screens
- On mobile: reduced height and flexible width

 **5. Visual Representation**





