Front End UI/UX Mini Project

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Project 1
Event Registration Form

Abstract

The Event Registration System is a web-based application designed to simplify the process of registering for events. It captures user details, processes them, and displays a confirmation message dynamically using HTML, CSS, and JavaScript. This project demonstrates the integration of front-end technologies to create a seamless user experience.

Objective

- To provide a user-friendly interface for event registration.
- To display user data dynamically without page reload.
- To enhance understanding of HTML, CSS, and JavaScript integration.

Scope of Project

This project is suitable for workshops, seminars, webinars, and small events where a quick and efficient registration system is required. The system can be enhanced for larger-scale events by integrating with backend databases and authentication systems.

Tools and Technologies Used

- HTML5: Structuring the content.
- CSS3: Styling the web pages.
- JavaScript (ES6): Adding dynamic content.
- URLSearchParams API: Extracting URL parameters.
- Text Editor: Visual Studio Code.
- Browser: Google Chrome.

HTML Structure Overview

The HTML structure is designed with semantic tags to enhance readability and maintainability. It consists of a container holding the success message and user details fetched dynamically.

CSS Styling Strategy

The CSS file ('style.css') contains rules for:
- Responsive layout for different devices.
- Color scheme and typography.

- Container alignment and spacing.
- Font styling for improved readability.

Key Features

- Dynamic data display without server interaction.
- Clean and responsive design.
- Easy to customize for different events.
- Lightweight and fast-loading.

Challenges Faced and Solutions

Challenge: Passing user data between pages securely.
Solution: Used URLSearchParams for simplicity in this prototype, but noted the need for backend integration in production.

Challenge: Ensuring responsive design.
Solution: Used CSS media queries and flexible layouts.

Outcome

The system successfully registers users and displays their details on a confirmation page. It is functional, visually appealing, and serves as a foundation for more advanced systems.
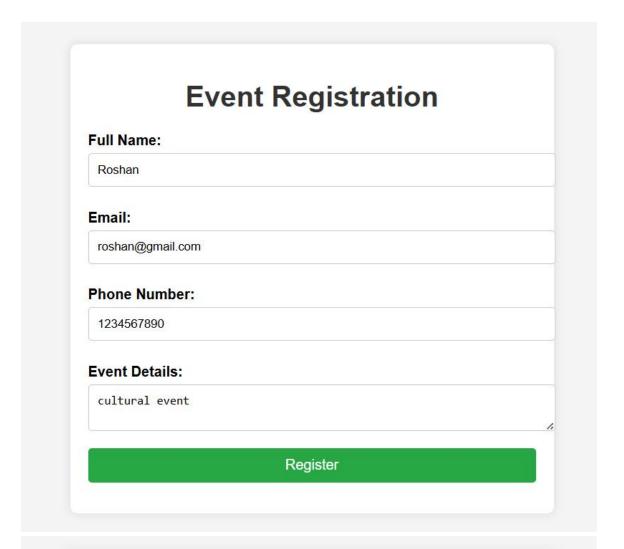
Future Enhancements

- Backend database integration.
- User authentication.
- Email confirmation.
- Payment gateway for paid events.
- Multi-language support.

Sample Code

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Registration Confirmation</title>
   <link rel="stylesheet" href="style.css">
</head>
```

```html
<body>
  <div class="container">
    <h1>Registration Successful!</h1>
    <p>Thank you for registering. Here are your details:</p>
    <ul>
      <li><strong>Name:</strong> <span id="displayName"></span></li>
      <li><strong>Email:</strong> <span id="displayEmail"></span></li>
      <li><strong>Phone:</strong> <span id="displayPhone"></span></li>
      <li><strong>Event:</strong> <span id="displayEvent"></span></li>
    </ul>
  </div>
  <script>
    const params = new URLSearchParams(window.location.search);
    document.getElementById('displayName').textContent = params.get('name');
    document.getElementById('displayEmail').textContent = params.get('email');
    document.getElementById('displayPhone').textContent = params.get('phone');
    document.getElementById('displayEvent').textContent = params.get('event');
  </script>
</body>
</html>
```

Screenshot of Outputs

Event Registration

Full Name:

Roshan

Email:

roshan@gmail.com

Phone Number:

1234567890

Event Details:

cultural event

Register

Registration Successful!

Thank you for registering. Here are your details:

- **Name:** Roshan
- **Email:** roshan@gmail.com
- **Phone:** 1234567890
- **Event:** cultural event

Conclusion

This project demonstrates how HTML, CSS, and JavaScript can be effectively used to create a simple yet functional event registration system. It provides a foundation that can be enhanced with backend functionalities for real-world applications.

References

1. MDN Web Docs - HTML, CSS, JavaScript.
2. W3Schools - Web Development Tutorials.
3. Stack Overflow - Developer Discussions.