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Project Proposal 1: User Registration and Payment Website

Project Overview

This project aims to develop a simple yet functional website that allows users to register and make payments through the SSLCommerz payment gateway. The data will be stored in a PostgreSQL server and can be retrieved and displayed on a dedicated page. The website will also feature an image slideshow and other interactive elements to enhance the user experience.

Objectives

1. Implement a user registration form.
2. Integrate SSLCommerz for secure payments.
3. Store user data in a PostgreSQL database.
4. Create a page to fetch and display registered user data.
5. Include additional features like image slideshows and interactive elements.

Technologies Used

- **Frontend**: Next.js, NextUI framework
- **Database**: PostgreSQL
- **Payment Gateway**: SSLCommerz
- **Additional Libraries**: React, Swiper.js (for image slideshow)

Detailed Features

1. **User Registration Form**:
    - Users can register by providing necessary details (name, email, student ID, etc.).
    - Form validation to ensure data integrity.
2. **Payment Integration**:
    - Integration of SSLCommerz for processing payments.
    - Secure handling of payment information using SSL encryption.
3. **Data Storage and Retrieval**:
    - User information and payment details stored in PostgreSQL.
    - A dedicated page to display registered user data in a tabular format.
4. **Additional Features**:
    - Image slideshow using Swiper.js.
    - Interactive UI elements to enhance user experience.

Live Preview: https://constructcarnival.com

Project Proposal 2: A club website with dynamic steps

Project Overview

The RUET Career Forum website is designed to serve as a platform for students and professionals associated with RUET to connect, share career stories, and access various resources. The project will include a robust backend built with Express and Mongoose, a user-friendly frontend with various animations using Framer Motion, and a comprehensive user profile system with admin dashboard capabilities.

Objectives

1. Develop a modern and interactive user interface.
2. Implement a backend with Express.js and MongoDB (Mongoose).
3. Create user authentication and profile management.
4. Enable users to share stories using a rich text editor.
5. Develop an admin dashboard for managing site content and user information.

Technologies Used

- **Frontend**: Next.js, NextUI framework, Framer Motion (for animations), authJS
- **Backend**: Node.js, Express.js, Mongoose (for MongoDB)
- **Authentication**: Auth.js
- **Rich Text Editor**: Quill

Detailed Features

1. **User Interface**:
    - Responsive and visually appealing UI built with NextUI.
    - Animations and transitions using Framer Motion for a smooth user experience.
2. **Backend Development**:
    - Express.js for server-side operations.
    - MongoDB with Mongoose for database management.
3. **User Authentication and Profile Management**:
    - User registration, login, and authentication using Auth.js.
    - Profile editing capabilities with various customizable options.
4. **Story Sharing**:
    - Users can share their career stories on their profile.
    - Stories can be viewed and interacted with by other users.
5. **Admin Dashboard**:
    - Comprehensive dashboard for admins to manage users, stories, and other site content.
    - Access control and data visualization for site statistics.

Live Preview: https://rcf-web-front-end.vercel.app