Grey Paper CSCI 355 Project 2

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Points Explaining the html,css and js of the project:

1. NavBar
    a. Created NavBar such that it takes the classname “navbar” that creates an unordered list with multiple items in it. Created links to each items, such that it goes to each page associated with that item
2. CreateEvent
    a. Created an constructor for the form
        i. The elements in the form are:
            1. eventName, for the name of the newly created event
            2. firstName, lastName for the name of the host
            3. Location, for the location of the event
            4. Date, date of the event
            5. Description, brief description of the event
    b. Created handleSubmit(event) so that the user must fill out the form. When the user finish filling out the form and submits it, it gets sent to the Find Event page
    c. render() is a function that creates the format of the form
3. FindEvent
    a. toggleExpand() is used to expand the event to show more details
    b. handlePageClick() is used to collapsed the focused event
    c. filteredEvents() is used to find events that the user searched
    d. In the page there is a search bar such that users can search for events
    e. Event-list to display all events
4. App
    a. Acts as entry point for React
    b. Sets up Stripe elements using public Stripe API key
    c. Wraps CheckoutForm in Elements for Stripe functionality
5. CheckoutForm
    a. Displays the payment form to collect card details
    b. Handles user interactions, including submitting the payment to Stripe
    c. Provides real-time feedback such as error messages or success confirmation
6. Server
    a. Handles backend operations to securely communicate with Stripe's API

b. Creates payment intents and sends the client_secret to the frontend for processing

c. API Endpoint processes requests from the frontend, creating a payment intent with the specified amount and currency

7. DB
    a. Automatic table creation if not exists
    b. Ensures database readiness for event management
    c. addEvent() is used to insert new event into database
    d. getAllEvents() is used to retrieve all stored events
    e. Provides error handling for connection and table creation
8. MarketPlace
    a. Displays a variety of products to be sold
    b. User can use the filterings to obtain the products to their liking
    c. useEffect to fetch data from an API
    d. filtertoProduct() filters a list of products to update the state
    e. filterModify() updates the filter based on user interaction

9. User Authentication
    a. Component Structure:
        - (LoginModal, SignupModal) to encapsulate the login/signup.
        - State management to track user input, error and password visibility.
    b. User Authentication:
        - Firebase Authentication is used for user management, including email/password authentication and Google Sign-In.
        - The signInWithEmailAndPassword, createUserWithEmailAndPassword, and signInWithPopup functions from the Firebase SDK are used for authentication.
    c. Error Handling:
        - To catch authentication errors and display messages to the user.
        - The handleGoogleLogin function to handle potential errors during the Google Sign-In process.
    d. Modal Handling:
        - The Modal component is used to display the login/signup forms.
    e. Password Visibility:
        - The code implements a feature to show/hide the password
        - React Icons are used to display eye icons for better visual feedback.
    f. Styling and Layout:
        - CSS is used to style the modal, input fields, buttons, and other elements.