Project Overview:

Discount PRO : A Coupon Collecting Application

This project is a simple Coupon Collecting Application designed to help users easily find and use discount coupons for popular e-commerce shops in Bangladesh.

There are a lot of ecommerce stores that provide various types of vouchers and coupon codes for discounts . Our application will collect all the coupons available on each store so that people can easily achieve discounts and save money .

Users can sign up or log in using their email or Google account through Firebase Authentication. Once logged in, users can browse available coupons for different brands, see details like discount amount, expiry date, and product categories, and copy coupon codes with a single click.

Key Things you have must to do

- **GitHub Commits:** Include at least 10 meaningful commits with descriptive messages.

- **Readme.md:** Include a README file with the project name, purpose, live URL, key features, and any npm packages you have used.

- **Responsiveness:** Ensure the website is fully responsive on mobile, tablet, and desktop.

- **Environment Variables:** Secure Firebase configuration keys using environment variables.

- **Unique Design:** Create unique design. You can use this blog for these kinds of resources

- **Host your Application:** You can choose deployment systems like netlify, surge , firebase for hosting . As you are developing a single page application
    - ⚠️ ensure that page doesn't throw any error on reloading from any routes.
    - ⚠️ Add domain for authorization to firebase if you use netlify / surge
    - ⚠️ Logged in User must not redirect to Login on reloading any private route

Main Requirements

1. Layout Design

The whole application will be on a single page layout. With following components.

Header:

- A welcome message with user name at the center if user Log in.
- Header will contain a logo at the left
- A simple navigation at the center with icons+text for following routes.

- **Home** , **Brands** , **my-profile** for **(logged-in users)** only , **About Dev**
- Authentication items at right
  - Show **Login & Registration button** if the user is not logged in.
  - Show user picture , email and a Log-Out button if the user is logged in.

Main Section :
The Main section will contain some pages with various components based on routes. We will discuss it later.

Footer:
- Design Footer as you like. Include copyright text , social icons and link with your profile.

1. Generate JSON Data

Generate JSON Data for your **Coupon Collecting Application** . The data will be an array of objects with the following property. You can use any flexible property name.

_id : string(unique)	brand_name: string	rating: number
description:string	brand_logo: string	coupons [array of object]
shop-Link: string	category: string	isSaleOn : boolean

Coupons property will contain an array of objects . It will contain
- coupon-code : string , description : string, expiry-date: string, condition : string and cupon_type : string

Generate Fake Data . You can use AI Tools for this. You need minimum 6 json data . But it is recommended to generate as much as you can.

4. Home Page (“/”)

Banner with Slider
- Home page will contain a static slider with some images relevant to your application.

Top Brands
- This Section will contain a Title and some Brand Data
- Show All brand Logo with React Fast Marquee. on Hover Pause the transition.
- On Click a logo takes the user to the brand route.

Brands on Sell
- Show information of brands where isSaleOn is true
- Show brand Logo, brand Name, Total Coupons, category in a card format

Design Extra 2 Section with your Own Idea. section could be static or dynamic.

5. Brands Page ("/brands")

In This Page Show all brands information in card format with a search bar
- Add Page Title on the Top
- A card section with single column layout
- Each card will contain following information
    - Brand Logo , Brand Name , Rating with star icon at left
    - Brand Name, description in middle.
    - "View Coupons" button & A bouncing text "sale is on" if saleIsOn is true
    - by clicking this coupon logged in user will redirect to the brand details route. If Not redirect him to Login

6. Authentication System

On Clicking the Login Button / browsing any private Route user will be redirected to this route.

User Login

User will show a Login page with a form, so that the user can Log in this application.
- Show a Title for Login. & Form with the following fields
    (Email, Password, Forget Password, Login button)

If the user logs in successfully then navigate him to his desired Route / Home page. If not, show him an error with a toast/error message anywhere in the form.

There will be some other options like
- Show the user a Link for Register so that he can go to the register page.
- Show users a Social Login Button (Google only) . on Clicking it
    - user authenticates with Google
    - Navigate him to his desired Route / Home page.

User Registration

Create a register page with a form, so that the user can register himself in this application.
- Show a Title for registration and a Form with the following fields
    (Name, Email, Photo-URL, Password & Register Button)

If the user registers successfully then navigate him to his Home page. If not, show him an error with a toast/error message anywhere in the form.

Implement password validation For password validation you need to follow the below criteria. Show a password error in the form, and don't Register for an invalid password

- Must have an Uppercase letter in the password
- Must have a Lowercase letter in the password
- Length must be at least 6 character

There will be some other options like

- Show the user a Link for Login so that he can go to the Login page.
- Show users a Social Login Button (Google only) . on Clicking it
    - user authenticates with Google
    - Navigate the user to the Home page.

💡Don't implement email verification method as it will inconvenience the examiner. If you want, you can add these after receiving the assignment result.

7. Coupon page ("/brand/:id") `private Route`

This page shows the user all the details about the particular brand and brand coupons. Only logged in users are able to access this page.

- Show a brand name , Logo and rating at the top
- Show all the coupons in grid with card format
- Show coupon information in card format.
- Their will be a button "Copy Code"
    - Implement react-copy-to-clipboard - npm package for copying coupon code.
    - After Copying . show a successful toast.
- a button "use Now" on Click this, Will redirect user to brand_Link in a new tab

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8. my Profile ("/my-profile") `private Route`

Show users all the information in this page

- A Cover with a background and welcome message.
- User photo, name, email in a card format
- There will be some update features . will be described at challenge section

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9. About Us (optional)

- Write about yourself , your other project info , skills

Error Page

Add a 404 Page: If user wants to visit invalid routes Show user a Not Found Page with a button so that user can go back to home route.

Challenges

1. Forget Password
- Make your forgot password feature functional. Redirect user to forget password route. Which will contain a form with an email field and a reset password button.
  - If a user fills the email input in the login page. Show the email also in the forget password form.
  - On clicking the reset button. Redirect the user to gmail and make him Log-out.

2. Update Information Feature
- In my-profile route there will be an update button on Clicking it. Take user to another route
  - Show user a form with 2 input field (photo-URL and Name)
  - An Update Information button.
  - On clicking it, Update user information and navigate users to my-profile page.

3. Implement A special animation NPM package
Implement 1 animation package from below on your homepage
- [AOS Package](),

- [Animate.css](),

4. Password Toggling
Implement show and hide passwords on the registration page.
- By default it won't show the password when you click on the "Eye" icon it will show the password. In this way, you need to toggle

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What to Submit
⚠️ Before you submit, check carefully-> you did the things mentioned in the '[Key Things You Must Do]"

- **Assignment Category:**
- **GitHub Repo Link:**
- **Live Link:**