

User Authentication App

Objective:

Create a React Native app with **Login** and **Signup** functionality using **React Context API** to manage the authentication state. This assignment will test your understanding of authentication flows, state management using Context API, form handling, and navigation.

Requirements

1. Authentication Context Setup

- Implement a `AuthContext` using React's Context API to manage the global authentication state.
- The context should include:
 - `login`: A function to log in a user.
 - `signup`: A function to create a new user.
 - `logout`: A function to log out the user.
 - `user`: State to store the currently logged-in user's information.

2. Screens

1. Login Screen:

- Include input fields for:
 - Email
 - Password
- A "Login" button that triggers the `login` function from the `AuthContext`.
- Show error messages for:
 - Invalid email/password format.
 - Incorrect credentials.
- A "Go to Signup" button to navigate to the Signup screen.

2. Signup Screen:

- Include input fields for:
 - Name
 - Email
 - Password
- A "Signup" button that triggers the `signup` function from the `AuthContext`.
- Show error messages for:
 - Missing fields.
 - Invalid email format.
 - Password length less than 6 characters.
- A "Go to Login" button to navigate back to the Login screen.

3. Home Screen:

- Display the currently logged-in user's name and email.
- A "Logout" button to log out the user and return to the Login screen.

3. Persist Authentication (optional)

- Use `AsyncStorage` to persist the authentication state so that the user remains logged in after the app is closed and reopened.

4. Navigation

- Use **React Navigation** to manage navigation between:
 - Login Screen
 - Signup Screen
 - Home Screen

5. UI Design

- Make the app visually appealing with clear layouts and intuitive navigation.
- Use appropriate styles for input fields, buttons, and error messages.

Bonus Tasks (Optional)

1. **Password Visibility Toggle:**
 - Add an eye icon to toggle the visibility of the password field.

Share the assignment with the below details:

1. A GitHub repository with the project code.
2. A `README.md` file with setup instructions and an explanation of implemented features.
3. Screenshots or a short video demonstrating the app's functionality.