



Code Location (path):
src/app/auth/register/index.tsx

Description:

The Sign Up Page consists of a sign up form to collect user email and password to set up a user account for firebase authentication.

Dependencies

- Stack, router: Components from Expo-router to manage navigation between screens.

- `useState`: A React hook used to manage state within functional components.
- `View`: A component from the `react-native` library used to create a container for other components.
- `Text`: A component from the `react-native` library used to display text.
- `TextInput`: A component from the `react-native` library used to receive user input.
- `StyleSheet`: A component from the `react-native` library sets a function to use to pre-process a style property value.
- `TouchableOpacity`: A component from the `react-native` library used to create a pressable area with visual feedback.
- `Alert`: A component from the `react-native` library to launch an alert dialog with the specified title and message.
- `ActivityIndicator`: A component from the `react-native` library to display a circular loading indicator.
- `getAuth`: A component from the `firebase/auth` to help retrieve the authentication state, and protect API routes or gather relevant data.
- `createUserWithEmailAndPassword`: A component from the `firebase/auth` to create a new user account with a password.
- `sendEmailVerification`: A `firebase/auth` component to send an address verification email to a user.

State:

- `loading`: a boolean state that indicates whether the sign-up process is currently loading or not.

Variables:

- `EMAIL_REGEX`: a regular expression pattern used to validate email addresses.
- `FormData`: a type that represents the structure of the form data.

Functions:

- `SignUpScreen`: a function component that renders the sign-up screen.
- `onSignUpPressed`: an async function that handles the sign-up process and sends a verification email to the user.

Side Effects:

- `sendEmailVerification`: sends a verification email to the user after successful sign-up.
- `Alert.alert`: displays an alert message if there is an error or a success message after a successful sign-up.

Components:

- `Stack`, `Text`, `View`, `TextInput`, `TouchableOpacity`, `ActivityIndicator`: components from the `'react-native'` module used to build the sign-up screen.
- `Controller`: a component from the `'react-hook-form'` module used to control form input fields.

Rendered Components:

- Stack.Screen: a component that renders the screen title and navigation header.
- Text: a component that renders the welcome message.
- TextInput: components that render the email, password, and confirm password input fields.
- TouchableOpacity: a component that renders the sign-up button.