

		<b>Centro Federal de Educação Tecnológica de Minas Gerais</b> <b>Campus VIII – Varginha</b> <b>Curso Técnico em Informática</b>		
<b>Disciplina</b> Aplicações Móveis	<b>ATIVIDADE</b> 02	<b>Professor</b> Lázaro Eduardo da Silva	<b>Valor</b> 100%	<b>Nota</b>
<b>Data:</b> 23/05/2023	<b>Aluno:</b>			

1) Sobre o código abaixo explique a relação entre as estruturas de navegação do Login, Tab e Drawer.

<pre>import { createStackNavigator, StackNavigationProp } from '@react- navigation/stack'; import { TabNavigation } from './tab.navigation'; import { DrawerNavigation } from './drawer.navigation'; type LoginStackParamList = {   Tab: undefined   Drawer: undefined } type LoginScreenNavigationProp = StackNavigationProp&lt;LoginStackParam- List, 'Login'&gt; export type LoginTypes = {   navigation: LoginScreenNaviga- tionProp } export function LoginNavigation() {   const Stack = createStackNavigator&lt;LoginStackParamList&gt;()   return (     &lt;Stack.Navigator id='login'&gt;       &lt;Stack.Screen name='Tab' com- ponent={TabNavigation} /&gt;       &lt;Stack.Screen name='Drawer' component={DrawerNavigation} /&gt;     &lt;/Stack.Navigator&gt;   ) }</pre>	<pre>import { BottomTabNavigationProp, createBottomTabNavigator } from '@react-navigation/bottom-tabs'; import { ScreenCamera, ScreenPerfil } from '../screens'; type TabStackParamList = {   Perfil: undefined   Camera: undefined } type TabScreenNavigationProp = Bot- tomTabNavigationProp&lt;TabStackParam- List, 'Perfil'&gt; export type TabTypes = {   navigation: TabScreenNaviga- tionProp } export function TabNavigation() {   const Tab = createBottomTabNaviga- tor();   return (     &lt;Tab.Navigator&gt;       &lt;Tab.Screen name="Perfil" com- ponent={ScreenPerfil} /&gt;       &lt;Tab.Screen name="Camera" com- ponent={ScreenCamera} /&gt;     &lt;/Tab.Navigator&gt;   ); }</pre>	<pre>import { DrawerNavigationProp, cre- ateDrawerNavigator } from '@react- navigation/drawer'; import { ScreenCamera, ScreenPerfil } from '../screens'; type DrawerStackParamList = {   Perfil: undefined   Camera: undefined } type DrawerScreenNavigationProp = DrawerNavigationProp&lt;DrawerStack- ParamList, 'Perfil'&gt; export type DrawerTypes = {   navigation: DrawerScreenNaviga- tionProp } export function DrawerNavigation() {   const Drawer = createDrawerNaviga- tor();   return (     &lt;Drawer.Navigator&gt;       &lt;Drawer.Screen name="Perfil" component={ScreenPerfil} /&gt;       &lt;Drawer.Screen name="Camera" component={ScreenCamera} /&gt;     &lt;/Drawer.Navigator&gt;   ); }</pre>
---	---	--

2) Sobre a implementação abaixo, explique o que ela faz

```
import { TabTypes } from "../../navigations/tab.navigation";
export function Perfil({ navigation }: TabTypes) {
  function handleVoltar() {
    const login = navigation.getParent()
    login?.goBack()
  }
  return (
    <View style={styles.container}>
      <Text>Perfil</Text>
      <TouchableOpacity onPress={handleVoltar}>
        <Text>Voltar</Text>
      </TouchableOpacity>
    </View>
  )
}
```

- 3) Sobre a implementação abaixo, divida em partes para explicar: os tipos utilizados, as ações que podem ser realizadas, as bibliotecas utilizadas e suas funções, as permissões necessárias para uso dessa screen.

```
import { Camera, CameraCapturedPicture, CameraType } from 'expo-camera';
import { useRef, useState } from 'react';
import { Alert, Button, Image, Text, View } from 'react-native';
import { AntDesign } from '@expo/vector-icons';
import { ComponentButtonInterface, ComponentButtonTakePicture } from '../components';
import { styles } from './styles';
import { colors } from '../styles/colors';
import { TouchableOpacity } from 'react-native-gesture-handler';
import * as MediaLibrary from 'expo-media-library';
import * as ImagePicker from 'expo-image-picker';

export function CameraScreen() {
  const [type, setType] = useState(CameraType.back);
  const [permissionCamera, requestPermissionCamera] = Camera.useCameraPermissions()
  const [permissionMedia, requestPermissionMedia] = MediaLibrary.usePermissions()
  const [photo, setPhoto] = useState<CameraCapturedPicture | ImagePicker.ImagePickerAsset>()
  const ref = useRef<Camera>(null)
  const [takePhoto, setTakePhoto] = useState(false)
  if (!permissionCamera || !permissionMedia) {
    return <View />;
  }
  if (!permissionCamera.granted) {
    return (
      <View style={styles.container}>
        <Text style={{ textAlign: 'center' }}>We need your permission to show the camera</Text>
        <Button onPress={requestPermissionCamera} title="grant permission" />
      </View>
    );
  }
  if (!permissionMedia.granted) {
    return (
      <View style={styles.container}>
        <Text style={{ textAlign: 'center' }}>We need your permission to access your files</Text>
        <Button onPress={requestPermissionMedia} title="grant permission" />
      </View>
    );
  }
  function toggleCameraType() {
    setType(current => (current === CameraType.back ? CameraType.front : CameraType.back));
  }
  async function takePicture() {
    if (ref.current) {
      const picture = await ref.current.takePictureAsync()
      setPhoto(picture)
      setTakePhoto(false)
    }
  }
  async function savePhoto() {
    const asset = await MediaLibrary.createAssetAsync(photo!.uri)
    MediaLibrary.createAlbumAsync("Images", asset, false)
    Alert.alert("Imagem salva com sucesso!")
  }
  async function pickImage() {
    const result = await ImagePicker.launchImageLibraryAsync({
      allowsEditing: true,
      aspect: [4, 3],
    });
  }
}
```

```

        quality: 1
    })
    if (!result.canceled) {
        setPhoto(result.assets[0])
    }
}
return (
    <View style={styles.container}>
        {!takePhoto ? (
            <>
                <ComponentButtonInterface title='Tirar Foto' type='secondary' onPressI={() => setTakePhoto(true)} />
                {photo && photo.uri && (
                    <>
                        <Image source={{ uri: photo.uri }} style={styles.camera} />
                        <ComponentButtonInterface title='Salvar Imagem' type='secondary' onPressI={savePhoto} />
                    </>
                )}
                <ComponentButtonInterface title='Abrir Imagem' type='secondary' onPressI={pickImage} />
            </>
        ) : (
            <>
                <Camera style={styles.camera} type={type} ref={ref}>
                    <View style={styles.headerCamera}>
                        <TouchableOpacity onPress={toggleCameraType}>
                            <AntDesign name="retweet" size={70} color={colors.black} />
                        </TouchableOpacity>
                    </View>
                    <View style={styles.footerCamera}>
                        <ComponentButtonTakePicture onPress={takePicture} />
                    </View>
                </Camera>
            </>
        )}
    </View>
);
}

```