Projeto React Native – gerenciador de convidados

**1-Criação e instalação de dependências:**

npx react-native init GerenciadorConvidados

cd GerenciadorConvidados

npm install realm react-navigation react-navigation-stack

npm install @react-navigation/native @react-navigation/stack

npm install react-native-screens react-native-safe-area-context

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**2-Modelo Realm:**

// models/Guest.js

import Realm from 'realm';

class Guest extends Realm.Object {}

Guest.schema = {

name: 'Guest',

primaryKey: 'id',

properties: {

id: 'string',

name: 'string',

present: { type: 'bool', default: false }, // Adicionado

},

};

export default new Realm({ schema: [Guest.schema] });

**3-Navegação:**

import React from 'react';

import { NavigationContainer } from '@react-navigation/native';

import { createStackNavigator } from '@react-navigation/stack';

import AddGuestScreen from './screens/AddGuestScreen';

import GuestListScreen from './screens/GuestListScreen';

const Stack = createStackNavigator();

const App = () => {

return (

<NavigationContainer>

<Stack.Navigator initialRouteName="GuestList">

<Stack.Screen name="GuestList" component={GuestListScreen} />

<Stack.Screen name="AddGuest" component={AddGuestScreen} />

</Stack.Navigator>

</NavigationContainer>

);

};

export default App;

**4-Criação das Telas:**

import React, { useState } from 'react';

import { View, Text, TextInput, Button, StyleSheet } from 'react-native';

import Realm from '../models/Guest';

const AddGuestScreen = ({ navigation }) => {

const [name, setName] = useState('');

const addGuest = () => {

const realm = Realm;

realm.write(() => {

realm.create('Guest', {

id: new Date().toISOString(),

name: name,

});

});

setName('');

navigation.goBack();

};

return (

<View style={styles.container}>

<Text style={styles.label}>Nome do Convidado:</Text>

<TextInput

style={styles.input}

value={name}

onChangeText={setName}

/>

<Button title="Adicionar" onPress={addGuest} />

</View>

);

};

const styles = StyleSheet.create({

container: {

flex: 1,

justifyContent: 'center',

padding: 16,

},

label: {

marginBottom: 8,

fontSize: 18,

},

input: {

height: 40,

borderColor: 'gray',

borderWidth: 1,

marginBottom: 16,

paddingHorizontal: 8,

},

});

export default AddGuestScreen;

**5-Listar convidados:**

import React, { useEffect, useState } from 'react';

import { View, Text, Button, FlatList, StyleSheet, TouchableOpacity } from 'react-native';

import Realm from '../models/Guest';

const GuestListScreen = ({ navigation }) => {

const [guests, setGuests] = useState([]);

useEffect(() => {

const realm = Realm;

const allGuests = realm.objects('Guest');

setGuests([...allGuests]);

// Atualiza a lista quando houver mudanças

const listener = () => {

setGuests([...realm.objects('Guest')]);

};

realm.addListener('change', listener);

return () => {

realm.removeListener('change', listener);

};

}, []);

const checkInGuest = (guest) => {

const realm = Realm;

realm.write(() => {

guest.present = true; // Marca como presente

});

};

const renderItem = ({ item }) => (

<View style={styles.item}>

<Text style={styles.guestName}>{item.name}</Text>

<Text style={styles.guestStatus}>

{item.present ? 'Presente' : 'Ausente'}

</Text>

{!item.present && (

<TouchableOpacity

style={styles.checkInButton}

onPress={() => checkInGuest(item)}

>

<Text style={styles.checkInText}>Check-in</Text>

</TouchableOpacity>

)}

</View>

);

return (

<View style={styles.container}>

<Button

title="Adicionar Convidado"

onPress={() => navigation.navigate('AddGuest')}

/>

<FlatList

data={guests}

keyExtractor={(item) => item.id}

renderItem={renderItem}

/>

</View>

);

};

const styles = StyleSheet.create({

container: {

flex: 1,

padding: 16,

},

item: {

flexDirection: 'row',

alignItems: 'center',

padding: 16,

borderBottomWidth: 1,

borderBottomColor: '#ddd',

},

guestName: {

flex: 1,

fontSize: 16,

},

guestStatus: {

marginRight: 16,

fontSize: 16,

color: '#666',

},

checkInButton: {

backgroundColor: '#4CAF50',

paddingVertical: 8,

paddingHorizontal: 16,

borderRadius: 4,

},

checkInText: {

color: '#fff',

fontSize: 16,

},

});

export default GuestListScreen;

**Executar:**

npx react-native run-ios