

Create app todo list parcial

1. Créate expo proyect

In the terminal app, execute next commant

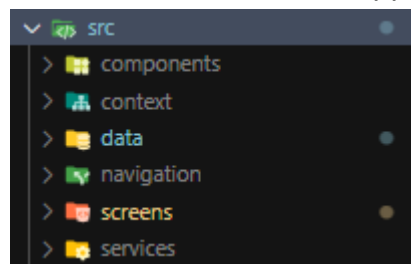
```
npx create-expo-app@latest --template
```

2. Install dependeces for navigation

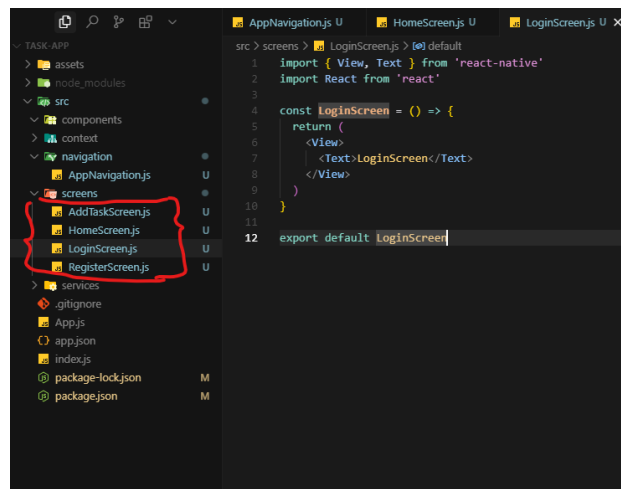
```
npm install @react-navigation/native
```

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

3. Create estructura for the app



4. Create files for the app



5. Create the file for the navigation configuration in the application

```
import React from "react";
import { createNativeStackNavigator } from "@react-navigation/native-stack"; // Import dependce stack

// Import Files Screen
import LoginScreen from "../screens/LoginScreen";
import RegisterScreen from "../screens/RegisterScreen";
import HomeScreen from "../screens/HomeScreen";
import AddTaskScreen from "../screens/AddTaskScreen";

const stack = createNativeStackNavigator();
const AppNavigation = () => {
  return (
    <stack.Navigator>
      <stack.Screen name="Login" component={LoginScreen} options={{ headerShown: false }} />
      <stack.Screen name="Register" component={RegisterScreen} options={{ headerShown: false }} />
      <stack.Screen name="Home" component={HomeScreen} options={{ headerShown: false }} />
      <stack.Screen name="AddTask" component={AddTaskScreen} options={{ headerShown: false }} />
    </stack.Navigator>
  );
};

export default AppNavigation;
```

6. Using navigation in the origin app

```
import { NavigationContainer } from '@react-navigation/native';
import AppNavigation from '../src/navigation/AppNavigation';

export default function App() {
  return (
    // import for usign navigation
    <NavigationContainer>
      <AppNavigation />
    </NavigationContainer>
  );
}
```

7. create view for loginScreen

```
import { View, Text, SafeAreaView, StyleSheet, TextInput, TouchableOpacity } from 'react-native'
import React, { useState } from 'react'
import { Ionicons } from '@expo/vector-icons';
import { useNavigation } from '@react-navigation/native';

const LoginScreen = () => {
  const navigation = useNavigation()
  const [email, setEmail] = useState('')
  const [password, setPassword] = useState('')

  const handleLogin = () => {
  }

  return (
    <SafeAreaView>
      <View style={style.containerTitle}>
        <Text style={style.title}>INICIO DE SESION</Text>
      </View>
      <View style={style.inputContainer}>
        <Ionicons name="at-outline" size={20} color="black" />
        <TextInput
          placeholder="Email"
          style={style.input}
          value={email}
          onChangeText={setEmail}
        />
      </View>
      <View style={style.inputContainer}>
        <Ionicons name="lock-open-outline" size={20} color="black" />
        <TextInput
          placeholder="Password"
          style={style.input}
        />
      </View>
    </SafeAreaView>
  )
}
```

8. create view for Register Screen

```
import { View, Text, SafeAreaView, StyleSheet, TextInput, TouchableOpacity } from 'react-native'
import React, { useState } from 'react'
import { Ionicons } from '@expo/vector-icons';
import { useNavigation } from '@react-navigation/native';

const RegisterScreen = () => {
  const navigation = useNavigation()
  const [email, setEmail] = useState('')
  const [password, setPassword] = useState('')
  const [user, setUser] = useState('')

  const handleRegister = () => {
  }

  return (
    <SafeAreaView>
      <View style={style.containerTitle}>
        <Text style={style.title}>REGISTRATE</Text>
      </View>
      <View style={style.inputContainer}>
        <Ionicons name="at-outline" size={20} color="black" />
        <TextInput
          placeholder="Usuario"
          style={style.input}
          value={user}
          onChangeText={setUser}
        />
      </View>
      <View style={style.inputContainer}>
        <Ionicons name="at-outline" size={20} color="black" />
        <TextInput
          placeholder="Email"
        />
      </View>
    </SafeAreaView>
  )
}
```

9. créate file .env for the environment variables

```
EXPO_PUBLIC_API_KEY=AIzaSyBtaAjWaIp_wQEj6rUCYv59UmdMOCA6V60
EXPO_PUBLIC_AUTH_DOMAIN=dsmovil-67cfc.firebaseio.com
EXPO_PUBLIC_PROJECT_ID=dsmovil-67cfc
EXPO_PUBLIC_STORAGE_BUCKET=dsmovil-67cfc.firebaseio.com
EXPO_PUBLIC_MESSAGING_SENDER_ID=20172997929
EXPO_PUBLIC_APP_ID=1:20172997929:web:2496ecc05a1905fd282338
EXPO_PUBLIC_MEASUREMENT_ID=G-95YSVND5DB

EXPO_PUBLIC_KEY_GOOGLELEG = project-20172997929

Ctrl+L to chat, Ctrl+K to generate
```

10. Install dependeces for using firebase

```
npm install firebase
npm i @react-native-firebase/app
```

11. Create file for config firebase

```
rc > services > .js firebaseConfig.js > ...
1 import { initializeApp } from "firebase/app";
2 import { initializeAuth } from "firebase/auth";
3
4 const firebaseConfig = {
5   apiKey: process.env.EXPO_PUBLIC_API_KEY,
6   authDomain: process.env.EXPO_PUBLIC_AUTH_DOMAIN,
7   projectId: process.env.EXPO_PUBLIC_PROJECT_ID,
8   storageBucket: process.env.EXPO_PUBLIC_STORAGE_BUCKET,
9   messagingSenderId: process.env.EXPO_PUBLIC_MESSAGING_SENDER_ID,
10  appId: process.env.EXPO_PUBLIC_APP_ID,
11  measurementId: process.env.EXPO_PUBLIC_MEASUREMENT_ID,
12 };
13
14 const app = initializeApp(firebaseConfig);
15 const auth = initializeAuth(app);
16
17 export { auth };
```

12. Create a Firebase login function

```
const handleLogin = () => {
  if(email === "") {
    Alert.alert('❌❌❌', 'El correo no puede ser vacio')
    return false
  }
  if(password === "") {
    Alert.alert('❌❌❌', 'El Contraseña no puede ser vacia')
    return false
  }
  signInWithEmailAndPassword(auth, email, password)
    .then((userCredential) => {
      navigation.reset({
        index: 0,
        routes: [{ name: "Home" }],
      });
    })
    .catch((error) => {
      Alert.alert("❌❌❌", error.code);
    });
}
```

13. Create a firebase register function

```
const handleRegister = () => {
  if (name === "") {
    Alert.alert('❌❌❌', 'El usuario no puede ser vacio')
    return false
  }
  if (email === "") {
    Alert.alert('❌❌❌', 'El correo no puede ser vacio')
    return false
  }
  if (password === "") {
    Alert.alert('❌❌❌', 'El Contraseña no puede ser vacia')
    return false
  }
  createUserWithEmailAndPassword(auth, email, password)
    .then((userCredential) => {
      const user = userCredential.user;
      updateProfile(user, { displayName: name }).then(() => {
        Alert.alert("✅✅✅", "Usuario registrado correctamente");
        navigation.reset({
          index: 0,
          routes: [{ name: "Login" }],
        });
      });
    })
    .catch((error) => {
      Alert.alert("❌❌❌", error.code);
    });
}
```

14. Install dependece for async storage

```
>npm install @react-native-async-storage/async-storage
```

15. Create the task actions in a separate file for better control of them

```
import AsyncStorage from '@react-native-async-storage/async-storage';

// create task
export const addTask = async (task) => {
  try {
    const storedTasks = await AsyncStorage.getItem('tasks');
    let tasks = storedTasks ? JSON.parse(storedTasks) : [];
    tasks.push(task);
    await AsyncStorage.setItem('tasks', JSON.stringify(tasks));
  } catch (error) {
    console.error('Error adding task', error);
  }
};

// get all task
export const getTasks = async () => {
  try {
    const storedTasks = await AsyncStorage.getItem('tasks');
    return storedTasks ? JSON.parse(storedTasks) : [];
  } catch (error) {
    console.error('Error getting tasks', error);
    return [];
  }
};

// remove one task
export const deleteTask = async (taskId) => {
  try {
    const storedTasks = await AsyncStorage.getItem('tasks');
    let tasks = storedTasks ? JSON.parse(storedTasks) : [];
    tasks = tasks.filter(task => task.id !== taskId);
    await AsyncStorage.setItem('tasks', JSON.stringify(tasks));
  } catch (error) {
    console.error('Error deleting task', error);
  }
};

// update state task
export const completeTask = async (taskId) => {
  try {
    const storedTasks = await AsyncStorage.getItem('tasks');
    let tasks = storedTasks ? JSON.parse(storedTasks) : [];
    tasks = tasks.map(task => {
      task.id === taskId ? { ...task, completed: !task.completed } : task
    });
    await AsyncStorage.setItem('tasks', JSON.stringify(tasks));
  } catch (error) {
    console.error('Error completing task', error);
  }
};
```

16. Create the design of the HomeScreen view with its navigation actions, and actions for completing and deleting tasks

```

import React, { useState, useCallback } from 'react';
import { View, Text, FlatList, TouchableOpacity, SafeAreaView, StyleSheet, Switch, 'from react-native';
import { deleteTask, getTasks, completeTask } from './data/tasksFunctions';
import { useFocusEffect } from 'react-navigation/native';
import { Ionicons } from '@expo/vector-icons';

const HomeScreen = ({ navigation }) => {
  const [tasks, setTasks] = useState([]);

  useFocusEffect(
    useFocusEffect(() => {
      const fetchTasks = async () => {
        const storedTasks = await getTasks();
        setTasks(storedTasks);
        fetchTasks();
      }, []);
    })
  );

  const handleDelete = async (taskId) => {
    await deleteTask(taskId);
    const updatedTasks = await getTasks();
    setTasks(updatedTasks);
  };

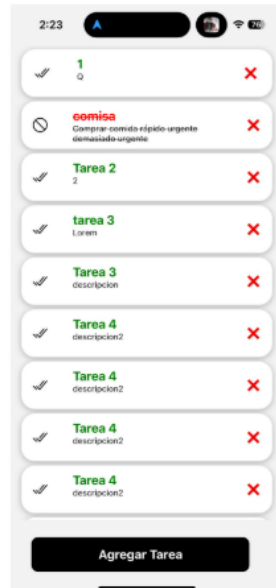
  const handleComplete = async (taskId) => {
    await completeTask(taskId);
    const updatedTasks = await getTasks();
    setTasks(updatedTasks);
  };

  const handleAddTask = () => {
    navigation.navigate('AddTask');
  };

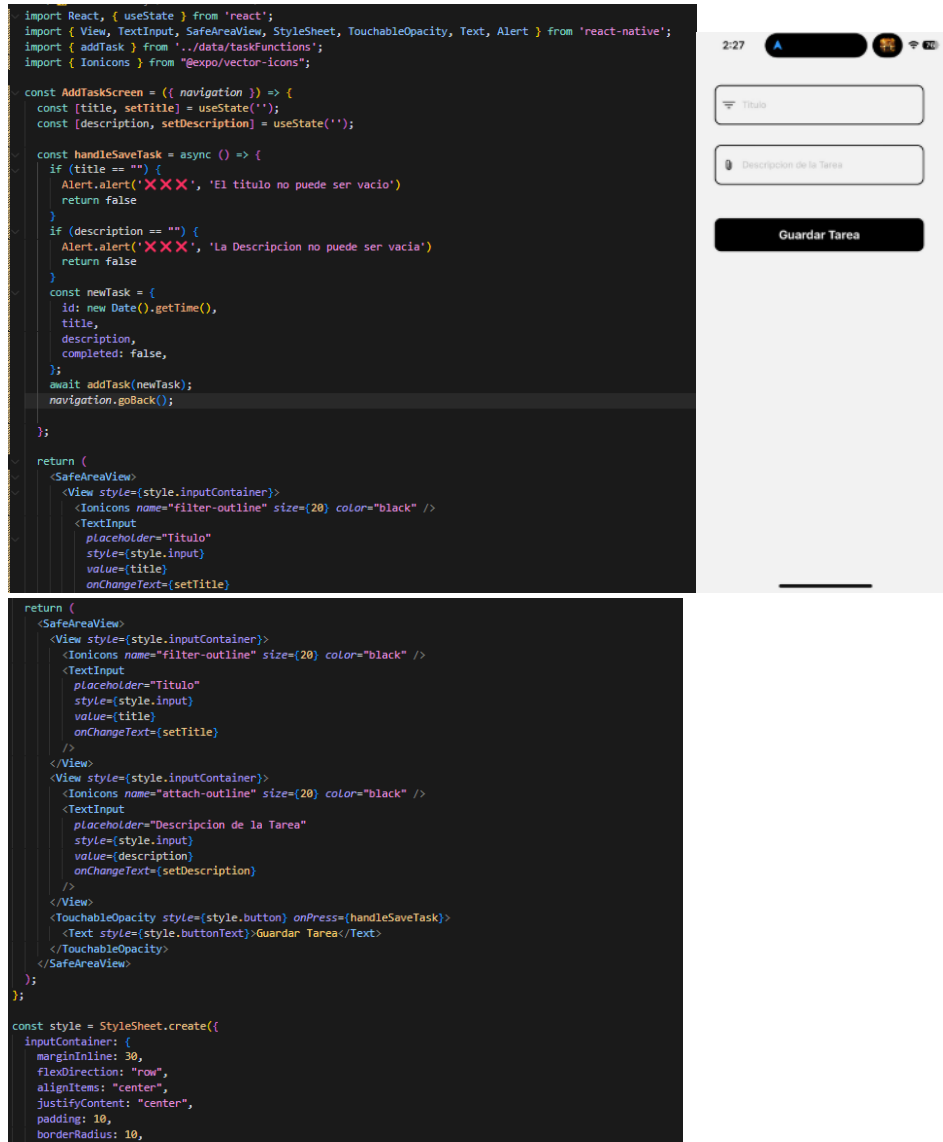
  return (
    <SafeAreaView style={{ flex: 1 }}>
      <>
        <View style={{ flex: 1, justifyContent: 'center', alignItems: 'center' }}>
          <TouchableOpacity style={{ flex: 1, justifyContent: 'center', alignItems: 'center' }} onPress={() => handleComplete(item.id)}>
            <Ionicons name={item.completed ? 'ban-outline' : 'checkmark-done-outline'} size={24} color="black" />
          </TouchableOpacity>
        </View>
        <View style={{ flex: 4, paddingInline: 20, paddingTop: 10 }}>
          <Text style={{ fontSize: 18, color: item.completed ? 'red' : 'green', fontWeight: 'bold', textDecorationLine: item.completed ? 'line-through' : 'none' }}>
            {item.title}
          </Text>
          <Text numberOfLines={2} style={{ fontSize: 12, textDecorationLine: item.completed ? 'line-through' : 'none' }}>
            {item.description}
          </Text>
        </View>
        <View style={{ flex: 1, justifyContent: 'center', alignItems: 'center' }}>
          <TouchableOpacity onPress={() => handleDelete(item.id)}>
            <Text>X</Text>
          </TouchableOpacity>
        </View>
      </>
    </SafeAreaView>
  );
};

const style = StyleSheet.create({

```



17. Create the design of the AddTaskScreen view with its navigation actions and task creation actions



18. Implement button logout

```
//  
<View style={style.containerBottom}>  
  <TouchableOpacity style={style.button} onPress={handleAddTask}>  
    <Text style={style.buttonText}>Agregar Tarea</Text>  
  </TouchableOpacity>  
  <TouchableOpacity style={style.buttonLogout} onPress={handleLogout}>  
    <Ionicons name="exit-outline" size={35} color="black" />  
  </TouchableOpacity>  
</View>
```

```
const handleLogout = () => {  
  Alert.alert(  
    "Cerrar sesión",  
    "¿Estás seguro que deseas cerrar tu sesión?",  
    [{  
      text: "Cancelar",  
      style: "cancel"  
    }],  
    {  
      text: "Sí, cerrar sesión",  
      onPress: () => {  
        signOut(auth)  
          .then(() => {  
            navigation.replace('Login');  
          })  
          .catch(err => Alert.alert('Error', 'No se pudo cerrar la sesión'));  
      }  
    }  
  )  
};
```