



first of all install nodejs form nodejs.org

open your command prompt and type :-

```
npx @react-native-community/cli init MyApp  
cd MyApp
```

2. Install React Navigation (TypeScript compatible)

```
npm install @react-navigation/native
npm install react-native-screens react-native-safe-area-context
npm install @react-navigation/native-stack
npm install --save-dev @types/react
```

📁 How to organize your project

Inside your project folder (example: MyApp), create these folders:

```
MyApp/
├── android/
├── ios/
├── node_modules/
├── app.json
├── package.json
├── tsconfig.json
├── App.tsx
├── src/ ← create this manually
│   ├── screens/
│   │   ├── HomeScreen.tsx
│   │   ├── ProfileScreen.tsx
│   │   └── SettingsScreen.tsx
│   └── types.ts
```

src/types.ts file code:-

```
export type RootStackParamList = {
  Home: undefined;
  Profile: undefined;
  Settings: undefined;
};
```

MyApp / App.tsx file code:-

```
import React from 'react';
import { NavigationContainer } from '@react-navigation/native';
import { createNativeStackNavigator } from '@react-navigation/native-stack';
import HomeScreen from './src/screens/HomeScreen';
import ProfileScreen from './src/screens/ProfileScreen';
import SettingsScreen from './src/screens/SettingsScreen';
import { RootStackParamList } from './src/types';

const Stack = createNativeStackNavigator<RootStackParamList>();

export default function App() {
  return (
    <NavigationContainer>
      <Stack.Navigator initialRouteName="Home">
        <Stack.Screen name="Home" component={HomeScreen} />
        <Stack.Screen name="Profile" component={ProfileScreen} />
        <Stack.Screen name="Settings" component={SettingsScreen} />
      </Stack.Navigator>
    </NavigationContainer>
  );
}
```

src/screens/HomeScreen.tsx

```
import React from 'react';
import { View, Text, Button } from 'react-native';
import { NativeStackScreenProps } from '@react-navigation/native-stack';
import { RootStackParamList } from '../types';

type Props = NativeStackScreenProps<RootStackParamList, 'Home'>;

export default function HomeScreen({ navigation }: Props) {
  return (
    <View style={{ flex: 1, justifyContent: 'center', alignItems: 'center' }}>
      <Text style={{ fontSize: 24 }}>Home Screen</Text>

      <Button
        title="Go to Profile"
        onPress={() => navigation.navigate('Profile')}
      />

      <Button
        title="Go to Settings"
        onPress={() => navigation.navigate('Settings')}
      />
    </View>
  );
}
```

```
    </View>
  );
}
```

src/screens/ ProfileScreen.tsx:-

```
import React from 'react';
import { View, Text, Button } from 'react-native';
import { NativeStackScreenProps } from '@react-navigation/native-stack';
import { RootStackParamList } from '../types';

type Props = NativeStackScreenProps<RootStackParamList, 'Profile'>;

export default function ProfileScreen({ navigation }: Props) {
  return (
    <View style={{ flex: 1, justifyContent: 'center', alignItems: 'center' }}>
      <Text style={{ fontSize: 24 }}>Profile Screen</Text>

      <Button title="Back to Home" onPress={() => navigation.navigate('Home')}
    />
    </View>
  );
}
```

src/screens/ SettingsScreen.tsx

```
import React from 'react';
import { View, Text, Button } from 'react-native';
import { NativeStackScreenProps } from '@react-navigation/native-stack';
import { RootStackParamList } from '../types';

type Props = NativeStackScreenProps<RootStackParamList, 'Settings'>;

export default function SettingsScreen({ navigation }: Props) {
  return (
    <View style={{ flex: 1, justifyContent: 'center', alignItems: 'center' }}>
      <Text style={{ fontSize: 24 }}>Settings Screen</Text>

      <Button title="Go to Home" onPress={() => navigation.navigate('Home')}
    />
    </View>
  );
}
```

Run the Android app

Open a new terminal **inside your project folder**:

```
npx react-native run-android
```

```
BUILD SUCCESSFUL in 49s
114 actionable tasks: 17 executed, 97 up-to-date
Consider enabling configuration cache to speed up this build: https://docs.gradle.org/9.0.0/userguide/configuration_cache_enabling.html
info Connecting to the development server...
info Starting the app on "emulator-5554"...
Starting: Intent { act=android.intent.action.MAIN cat=[android.intent.category.LAUNCHER] cmp=com.myapp/.MainActivity }
```