

The background image is a wide-angle aerial photograph of the New York City skyline during dusk or early evening. The sky is a hazy blue-grey. In the center, the iconic Empire State Building stands tall with its distinctive Art Deco spire reaching towards the top. To its right, the One World Trade Center is visible, along with several other modern skyscrapers. The city is densely packed with buildings of various heights, creating a complex pattern of windows and architectural styles. In the far distance, a bridge spans a body of water, and a small island is visible across the river.

Membangun aplikasi mobile
dengan
React Native



herman-arya



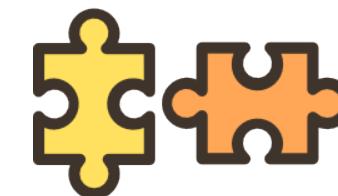
@herman_arya

I'm Herman
Mobile Developer
PT Weefer Indonesia

Goals



PENGENALAN REACT
NATIVE



DEMO SINGKAT MENJALAN KAN REACT
NATIVE DAN MEMBUAT SIMPLE
PROJECT DENGAN REACT NATIVE



KAPAN DAN PROJECT SEPERTI APA
KITA SEBAIKNYA MENGUNAKAN REACT
NATIVE

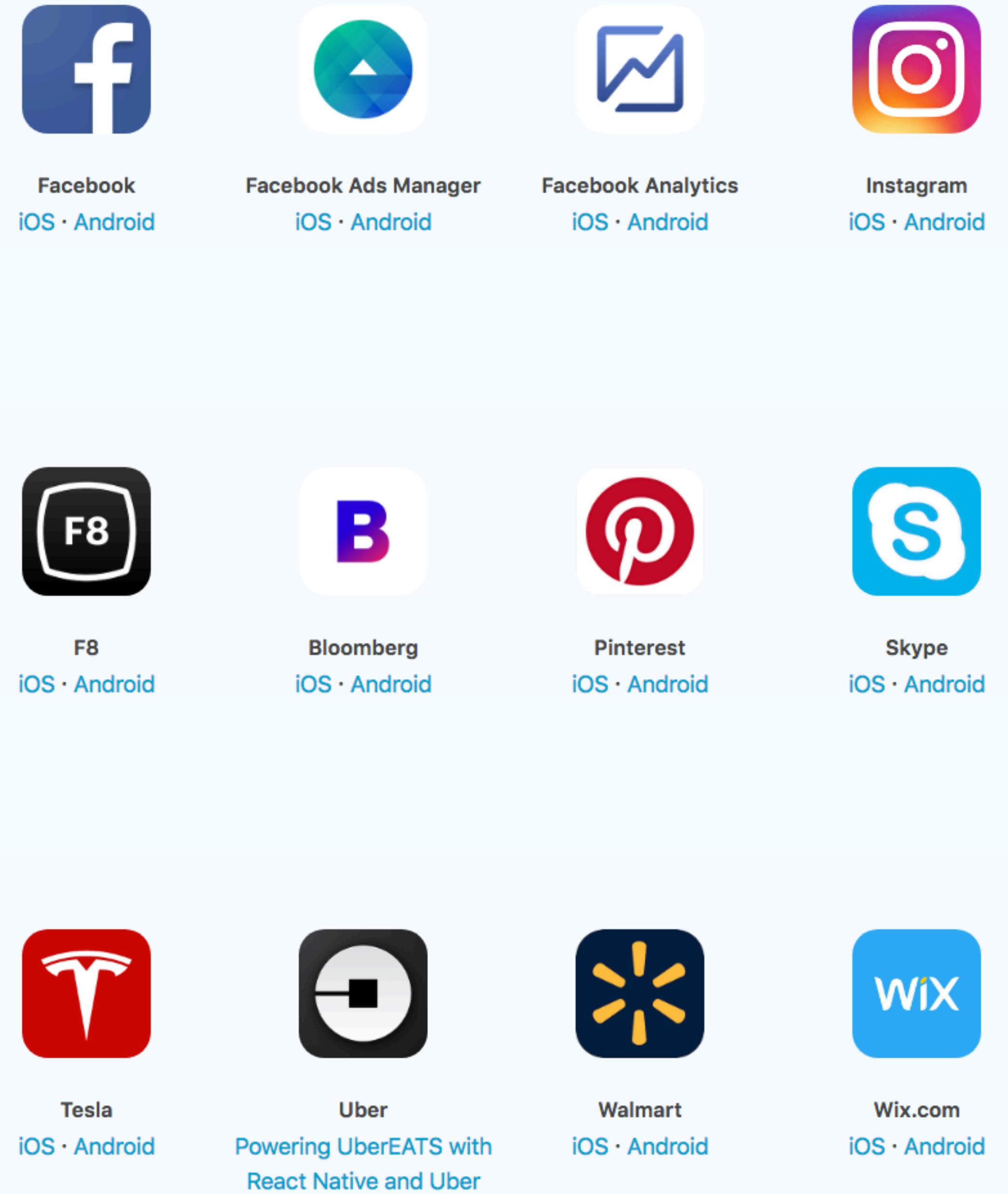
Apa itu React Native

React native adalah sebuah framework yang memungkinkan kita membuat aplikasi native dengan javascript.



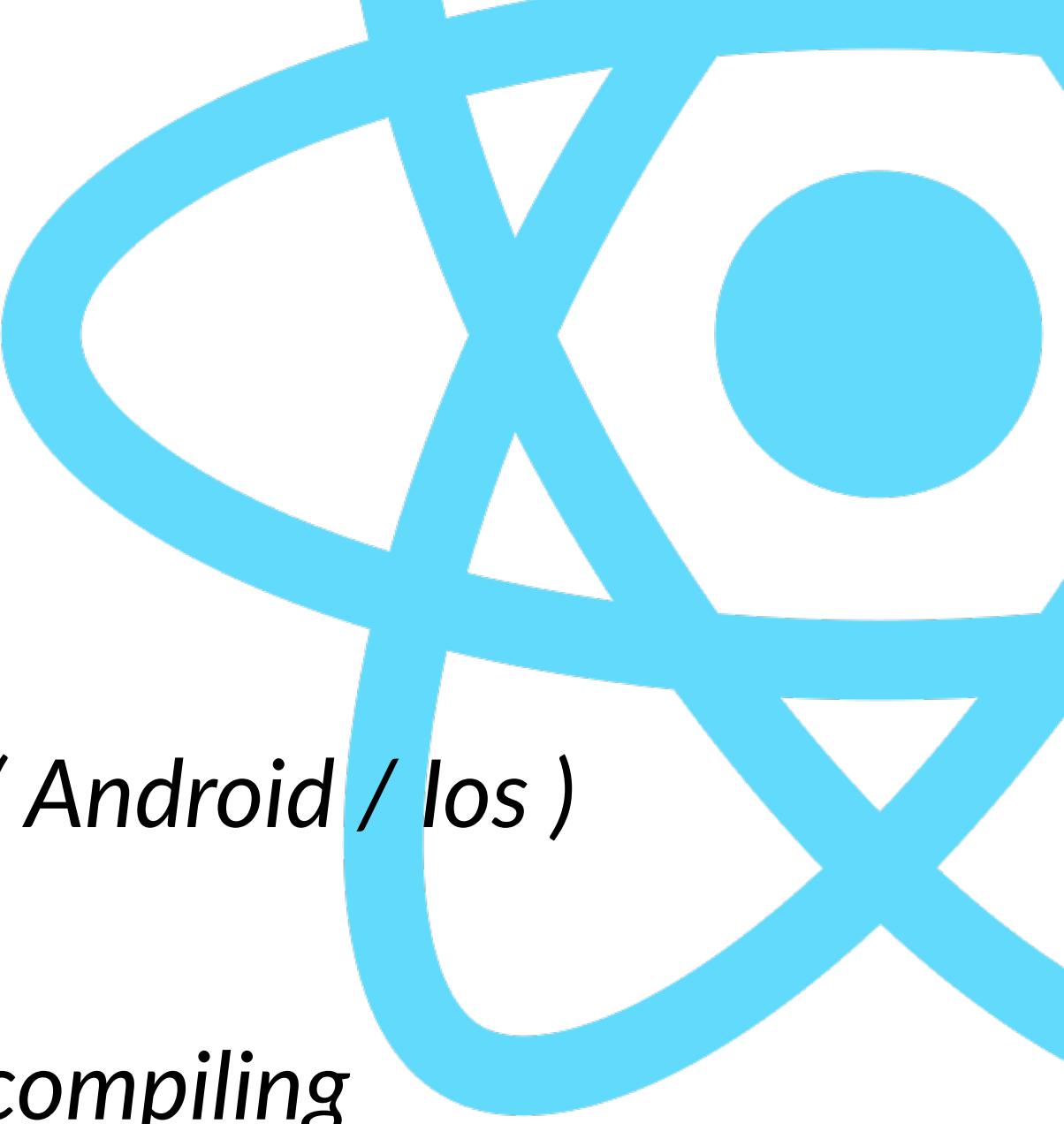
First Release in 2013

Applikasi yang menggunakan React Native



Kenapa Menggunakan React Native

- ✓ Cross Platform (Android / iOS)
- ✓ Hemat waktu compiling
- ✓ Mudah di mengerti
- ✓ Hemat waktu development





Cepat menghasilkan uang

How React Native Works?

Native App

.ipa

.apk

React Native Libraries/ReactJS
JavaScriptCore

Application Code

React Native Bridge

Platform UI Components

Core Libraries

Style & Layout

Platform API

Native Components

Language

Swift & Objective-C

Java & C/C++

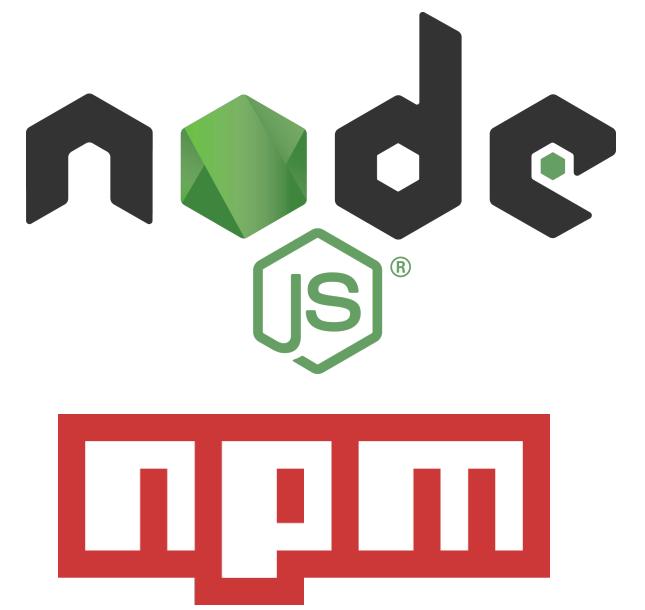
Tools

Xcode

Android Studio



Requirements



Node JS and NPM



Text Editor



Android Studio/Emulator



Xcode/Emulator

Technical Skills Required



Cara Install



langkah 1 : Install React Native:

```
npm install -g react-native-cli
```

langkah 2 : Creating a New Project

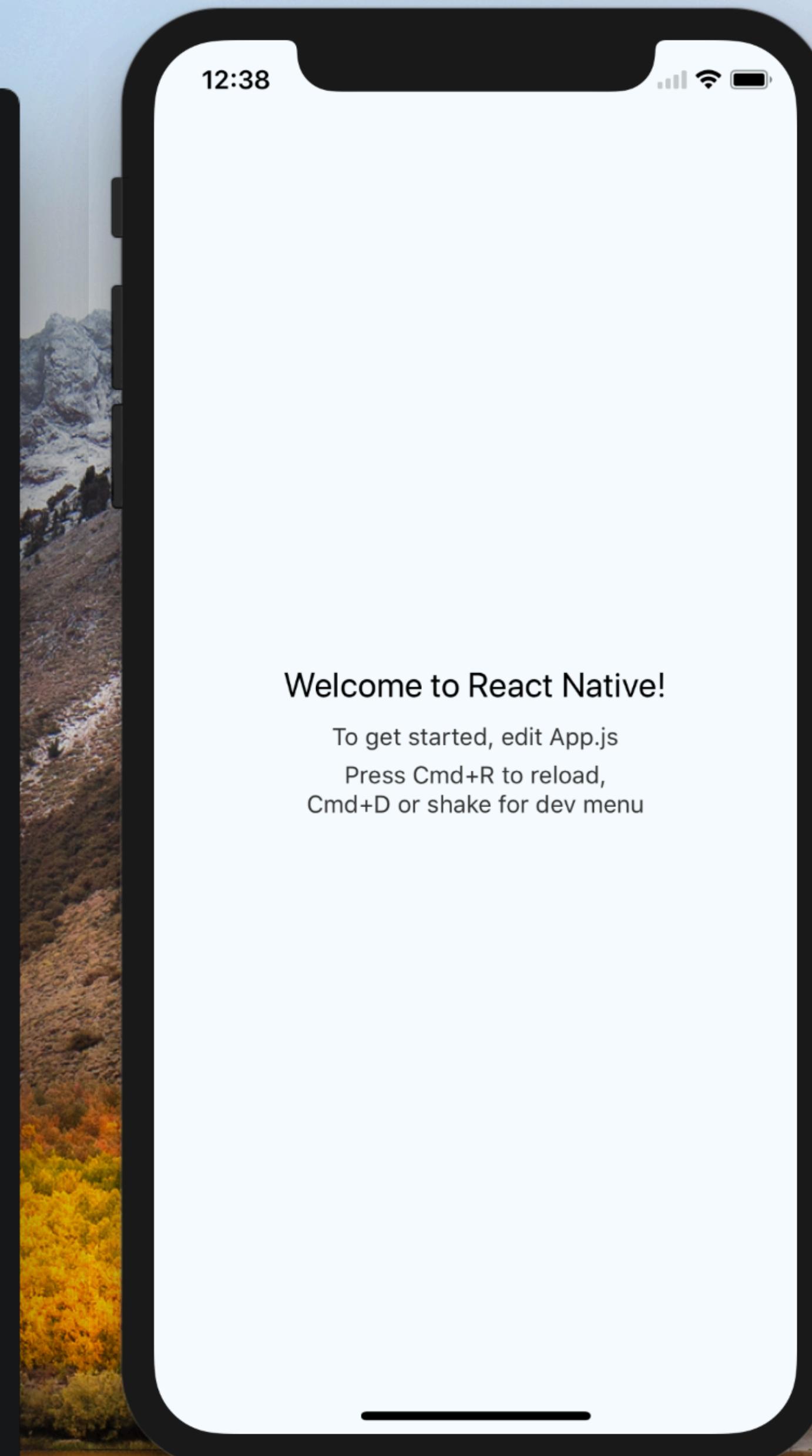
```
react-native init "ProjectName"
```

langkah 3 : Move to Project Folder

```
cd "ProjectName"
```

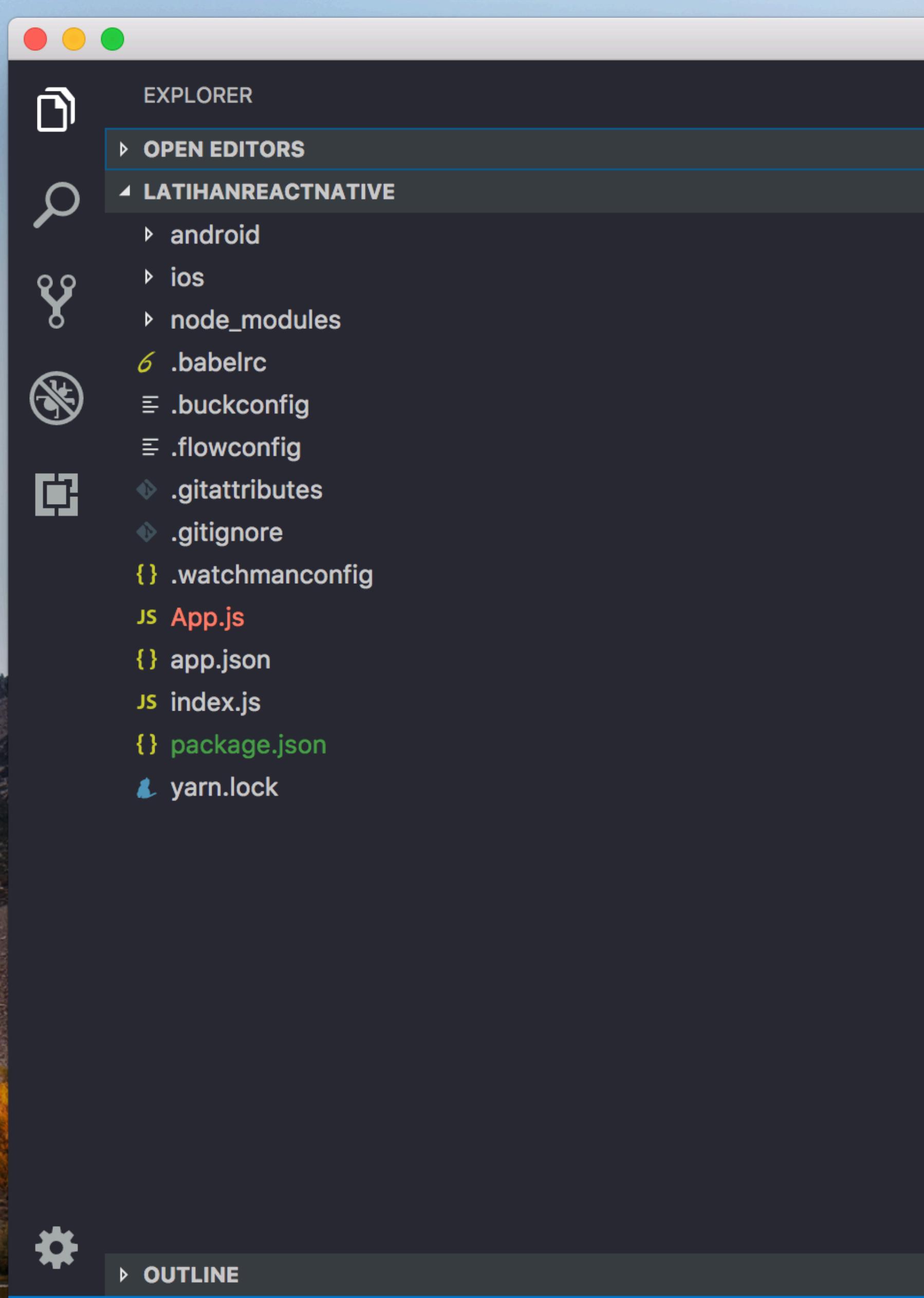
langkah 4 : Run Project

```
react-native run-android OR react-native run-ios
```



iPhone X - iOS 11.1

Structure Folder



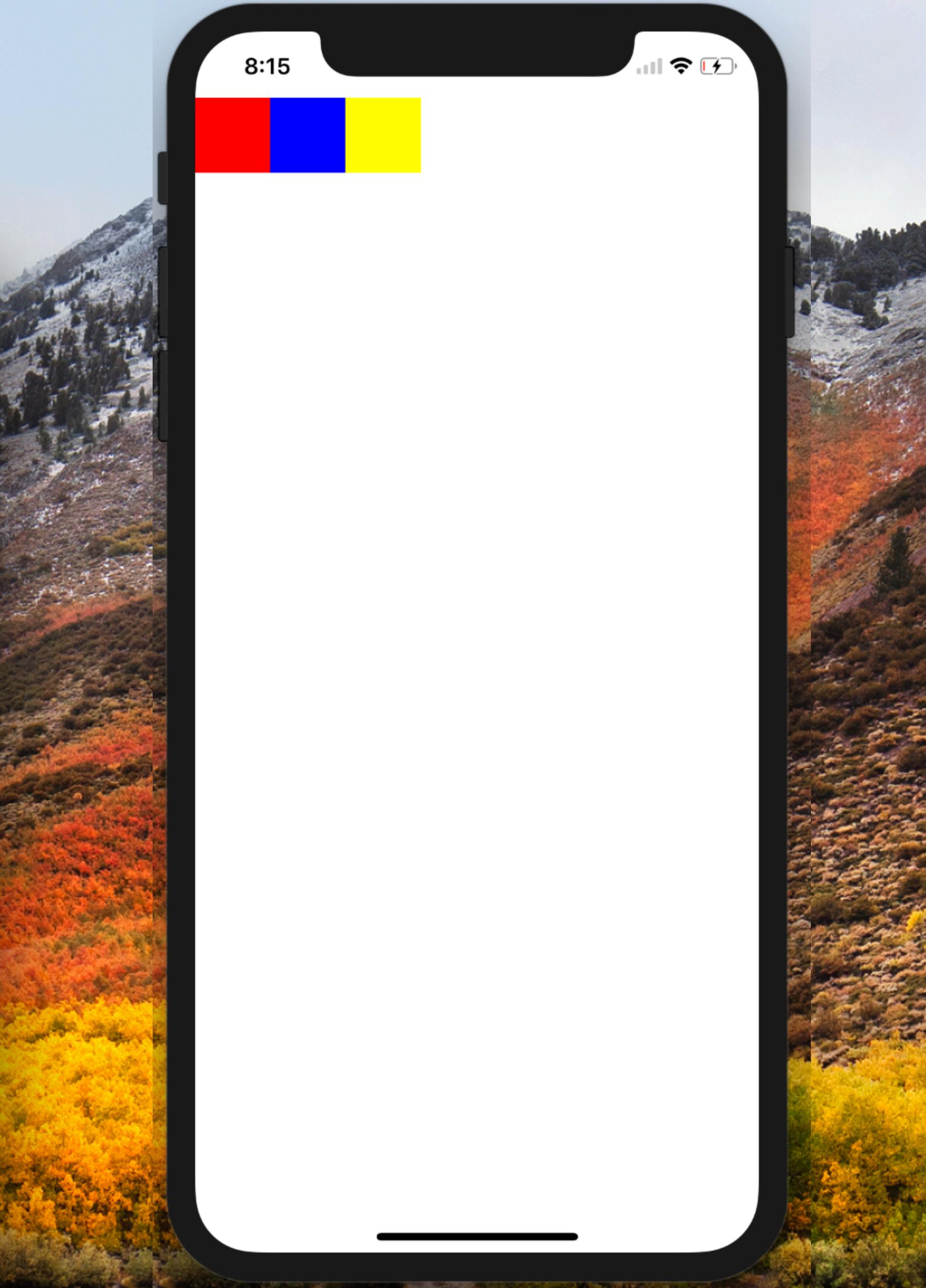


SAMPLE PROGRAM

```
1 /**
2  * Sample React Native App
3  * https://github.com/facebook/react-native
4  *
5  * @format
6  * @flow
7 */
8
9 import React, {Component} from 'react';
10 import {View,Text} from 'react-native';
11
12 export default class App extends Component {
13   render() {
14     return (
15       <View>
16         <Text>Welcome to React Native!</Text>
17       </View>
18     );
19   }
20 }
```

Layout + Styling

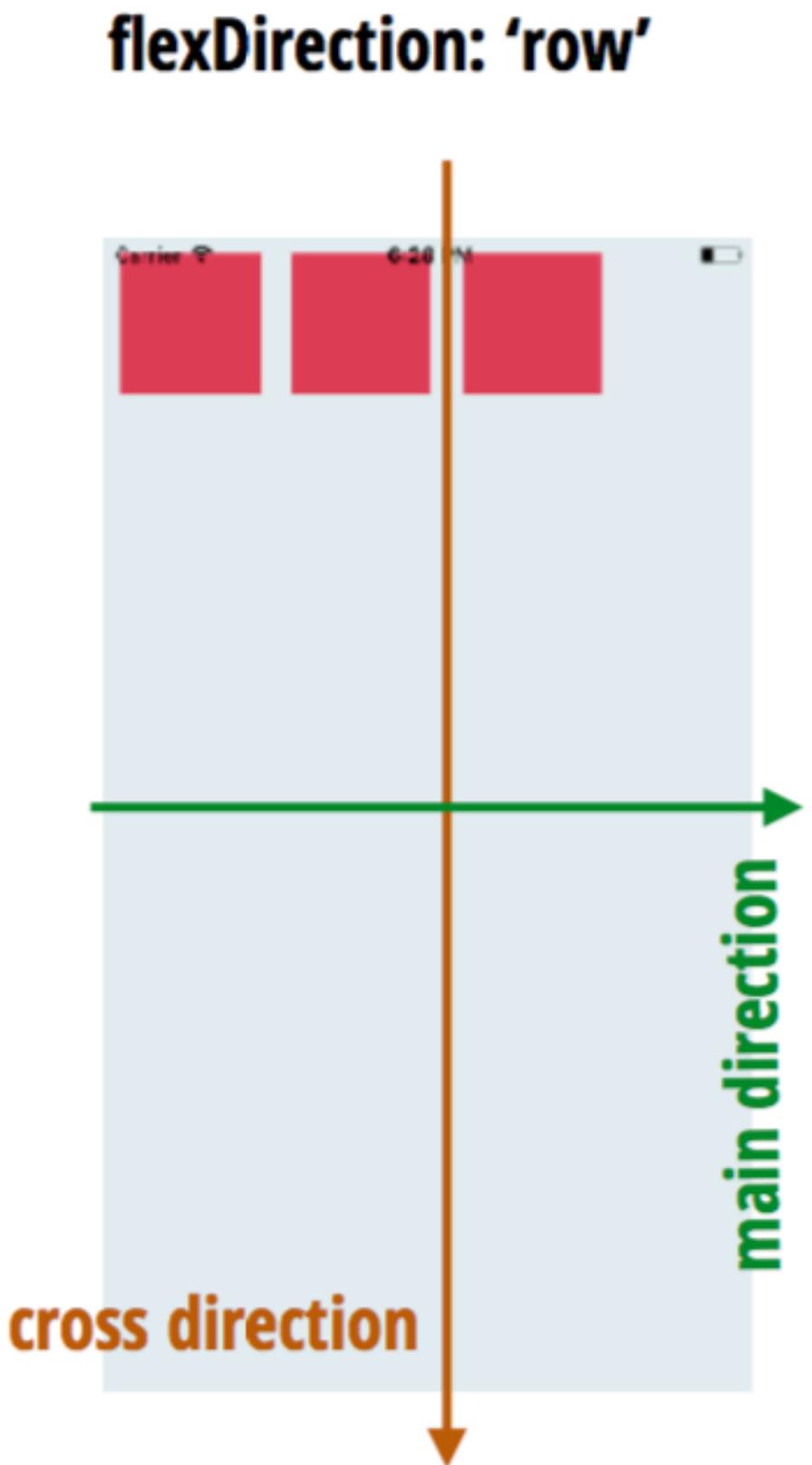
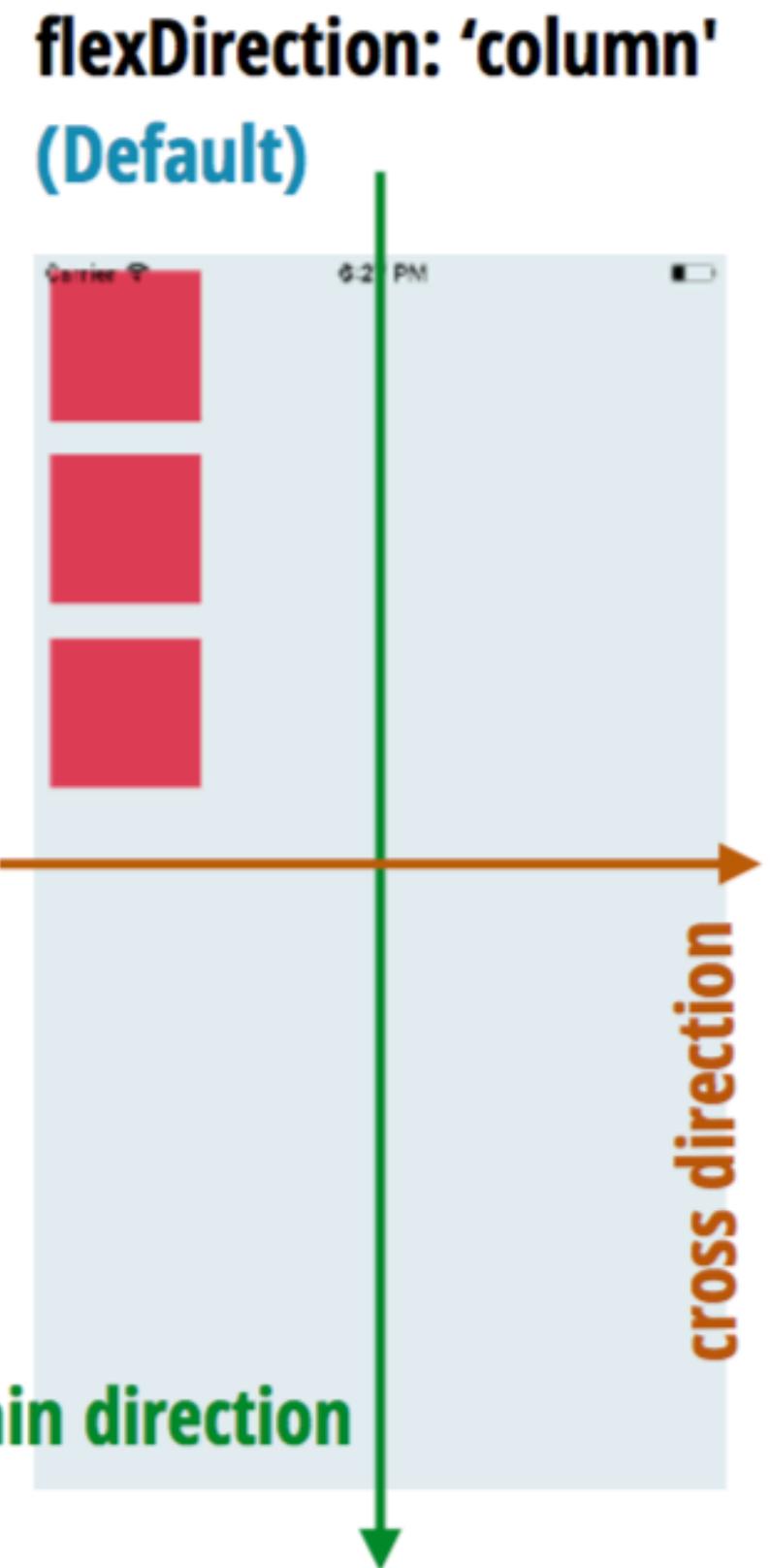
```
1 /**
2  * Sample React Native App
3  * https://github.com/facebook/react-native
4  *
5  * @format
6  * @flow
7 */
8
9
10 import React, {Component} from 'react';
11 import {View} from 'react-native';
12
13 export default class App extends Component {
14   render() {
15     return (
16       <View style={{flex: 1, flexDirection: 'row'}}>
17         <View style={{width: 50, height: 50, backgroundColor: 'red'}} />
18         <View style={{width: 50, height: 50, backgroundColor: 'blue'}} />
19         <View style={{width: 50, height: 50, backgroundColor: 'yellow'}} />
20       </View>
21     );
22   }
23 }
24
```



iPhone X - iOS 11.1

Flexbox : flexDirection

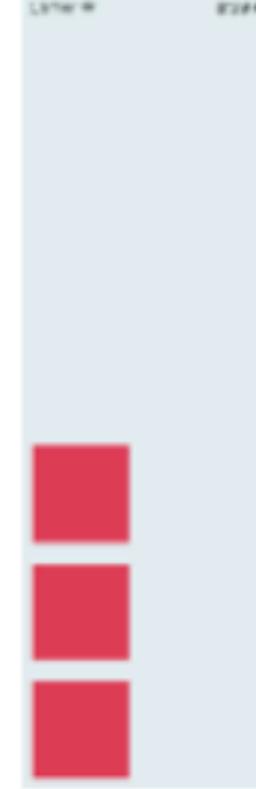
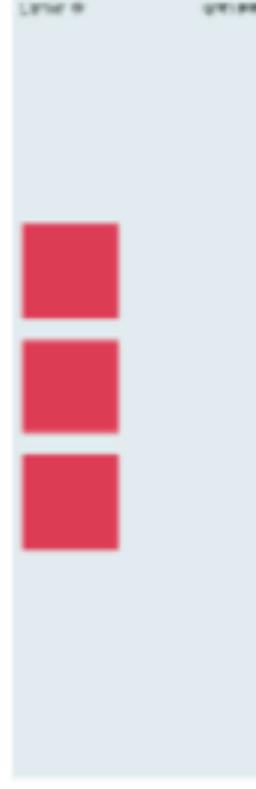
```
1
2
3 <View style={{flex: 1, flexDirection: 'column'}}>
4     <View style={{width: 50, height: 50, backgroundColor: 'red'}} />
5     <View style={{width: 50, height: 50, backgroundColor: 'blue'}} />
6     <View style={{width: 50, height: 50, backgroundColor: 'yellow'}} />
7 </View>
8
9
10 <View style={{flex: 1, flexDirection: 'row'}>
11     <View style={{width: 50, height: 50, backgroundColor: 'red'}} />
12     <View style={{width: 50, height: 50, backgroundColor: 'blue'}} />
13     <View style={{width: 50, height: 50, backgroundColor: 'yellow'}} />
14 </View>
15
16
17
```



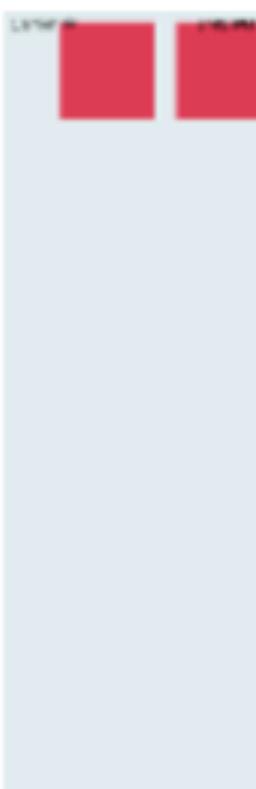
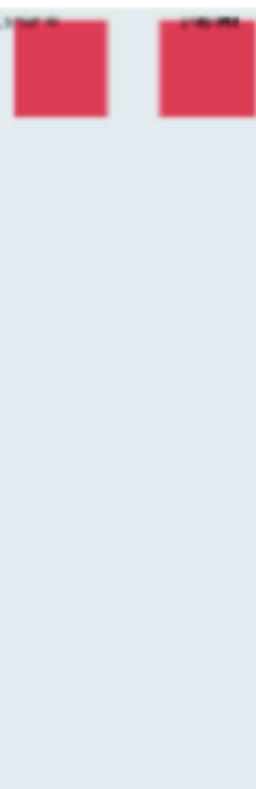
Flexbox : justifyContent

```
1
2
3 {
4   flex : 1,
5   flexDirection : 'column',
6   justifyContent : 'flex-start'
7 }
8
9
```

flexDirection: 'column'

'flex-start' (Default)	'flex-end'	'center'	'space-around'	'space-between'
				

flexDirection: 'row'

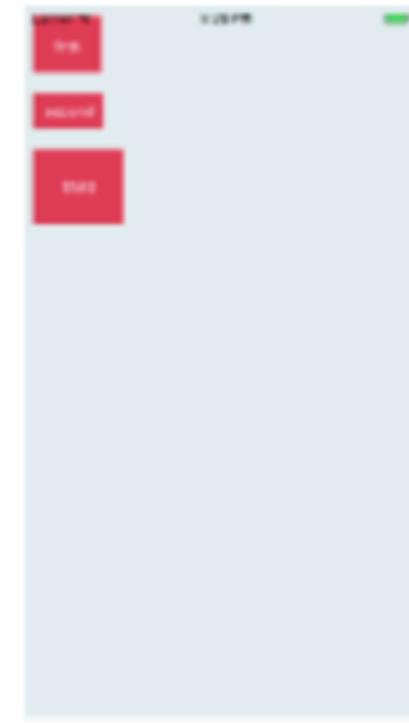
'flex-start' (Default)	'flex-end'	'center'	'space-around'	'space-between'
				

Flexbox : alignItems

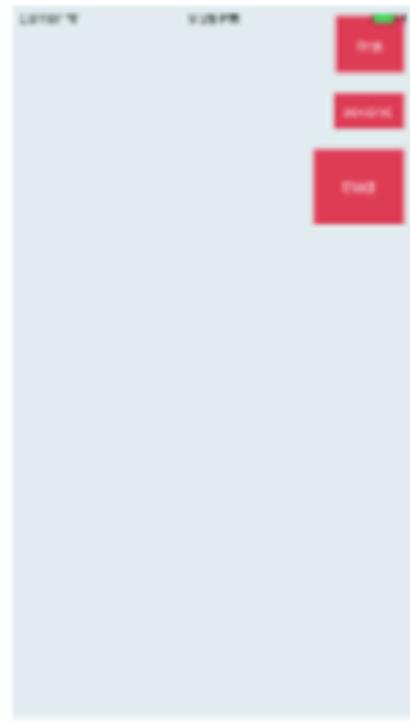


flexDirection: 'column'

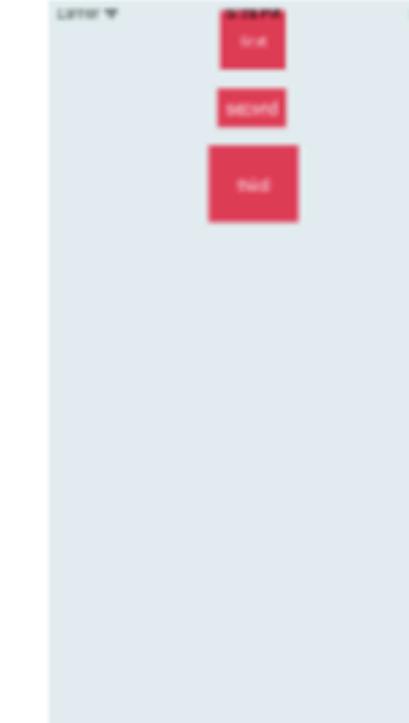
'flex-start'



'flex-end'



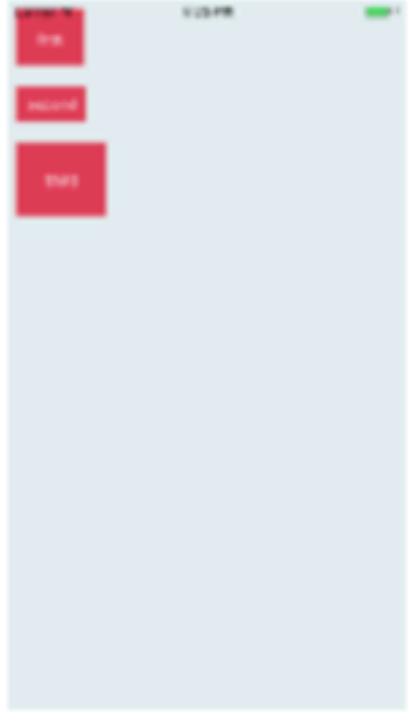
'center'



'stretch'



'baseline'



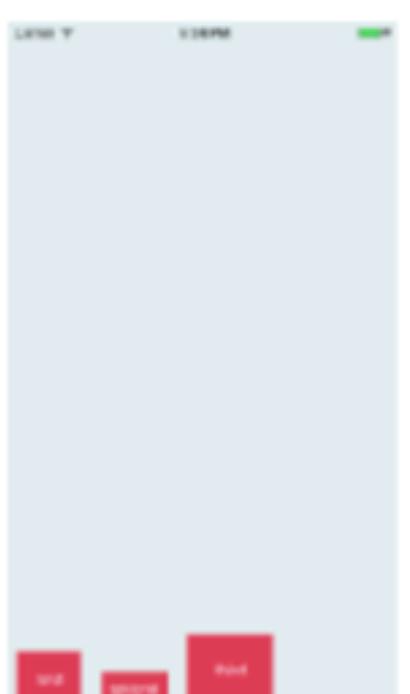
(Default)

flexDirection: 'row'

'flex-start'



'flex-end'



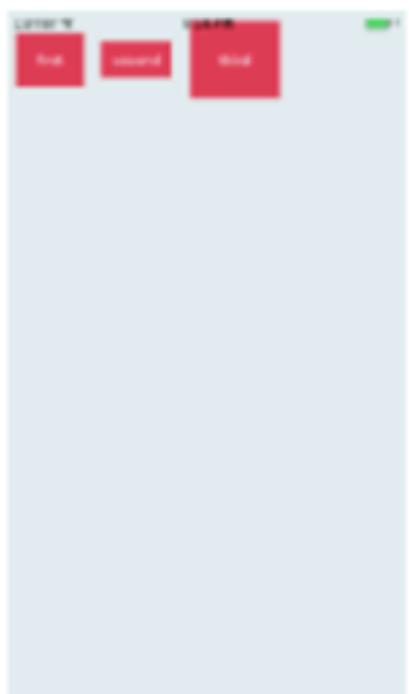
'center'



'stretch'



'baseline'



(Default)

Components

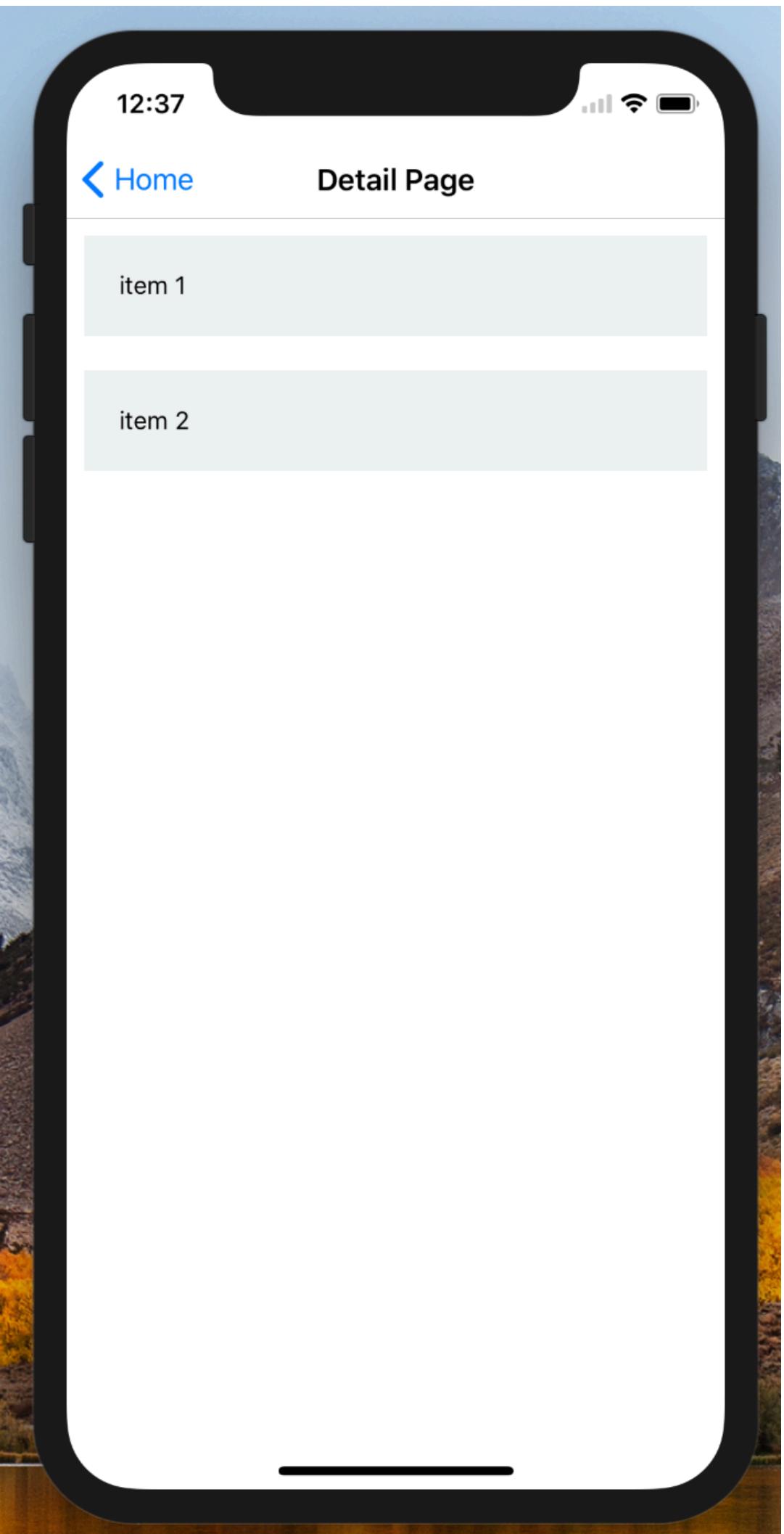
REACT NATIVE UI COMPONENTS

View, Text, Image, TextInput,
ScrollView,
Button, Picker, Slider, Switch,
FlatList, SectionList



List : Flatlist

```
● ● ●  
  
<FlatList  
  data={[{key: 'item 1'}, {key: 'item 2'}]}  
  renderItem={({item}) =>  
    <View style={{padding : 20,margin : 10,backgroundColor : '#ecf0f1'}}>  
      <Text>{item.key}</Text>  
    </View>}  
  />
```



Networking

```
● ● ●  
  
_loadData(){  
  return fetch('https://jsonplaceholder.typicode.com/posts/1/comments')  
    .then((response) => response.json())  
    .then((json) => {  
      console.log(json)  
    })  
    .catch((error) =>{  
      console.error(error);  
    });  
}
```

```
▼ (5) [{} , {} , {} , {} , {}] ⓘ  
  ▼ 0:  
    body: "laudantium enim quasi est quidem magnam voluptate ipsam eos ut tempore  
    email: "Eliseo@gardner.biz"  
    id: 1  
    name: "id labore ex et quam laborum"  
    postId: 1  
    ► __proto__: Object  
  ▼ 1:  
    body: "est natus enim nihil est dolore omnis voluptatem numquam et omni:  
    email: "Jayne_Kuhic@sydney.com"  
    id: 2  
    name: "quo vero reiciendis velit similique earum"  
    postId: 1  
    ► __proto__: Object  
  ▼ 2:  
    body: "quia molestiae reprehenderit quasi aspernatur aut expedita occaecati deserunt quas accusantium unde odit nobis"  
    email: "Nikita@garfield.biz"  
    id: 3  
    name: "odio adipisci rerum aut animi"  
    postId: 1  
    ► __proto__: Object  
  ▼ 3:  
    body: "non et atque occaecati deserunt quas accusantium unde odit nobis"  
    email: "Lew@alysha.tv"  
    id: 4  
    name: "alias odio sit"  
    postId: 1  
    ► __proto__: Object  
  ▶ 4: {postId: 1, id: 5, name: "vero eaque aliquid doloribus et culpa", email: "Moriah.Stanton@kunzenreiter.net", length: 5}  
    ► __proto__: Array(0)
```



Navigation : React Native Navigation

<https://x-guard.github.io/react-native-navigation/#/>

Navigation : root setup

```
import { Navigation } from 'react-native-navigation';

Navigation.startSingleScreenApp({
  screen: {
    screen: 'belajarRn.Login',
    title: 'Halaman Login',
  },
});

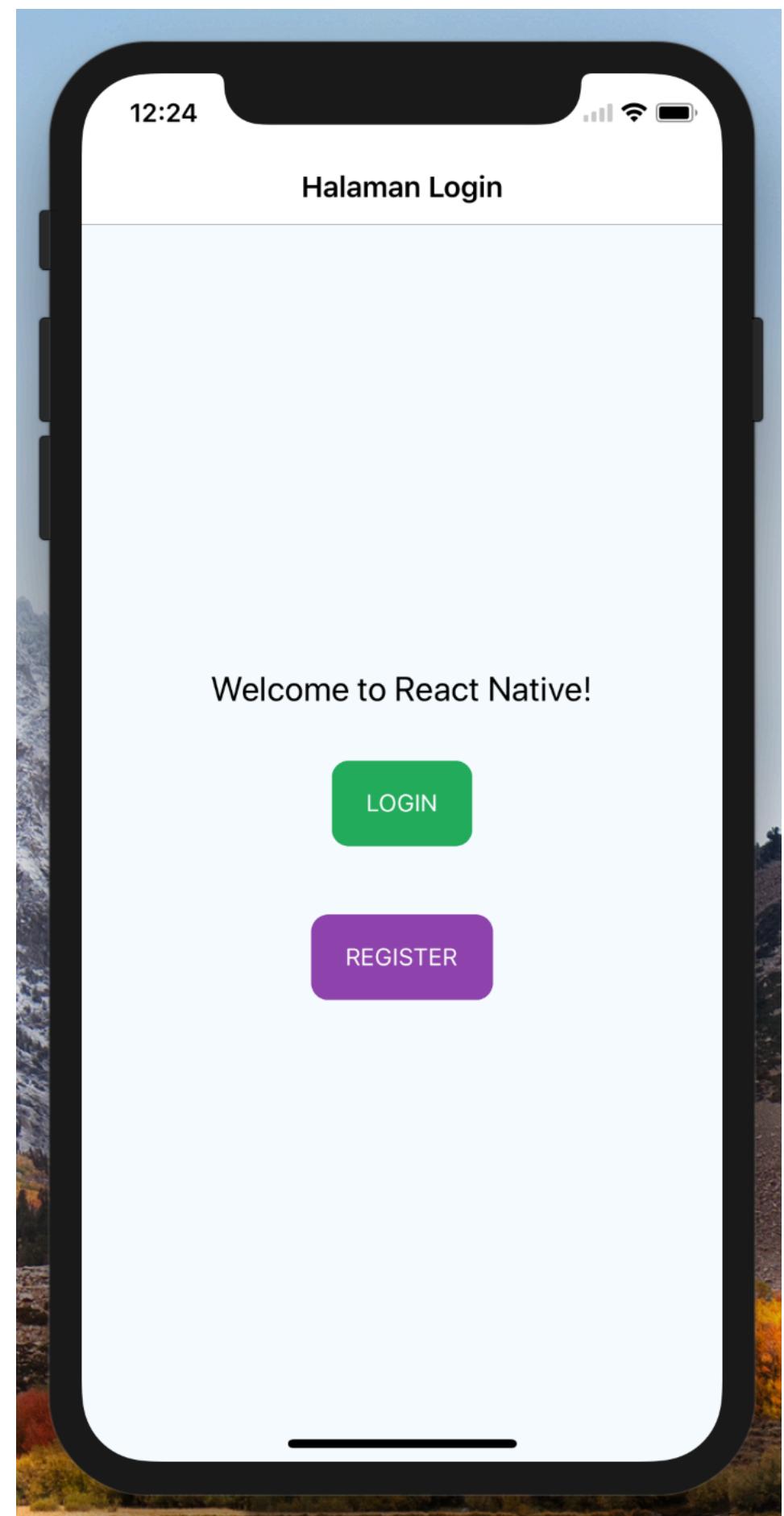
Navigation.startTabBasedApp({
  tabs: [
    {
      label: 'Home',
      screen: 'belajarRn.Home',
      icon: require('./img/menu_home.png'),
      title: 'Home'
    },
    {
      label: 'Setting',
      screen: 'belajarRn.Settings',
      icon: require('./img/menu_settings.png'),
      title: 'Setting'
    }
  ]
});
```

Daftar kan page/halaman yang menggunakan navigasi

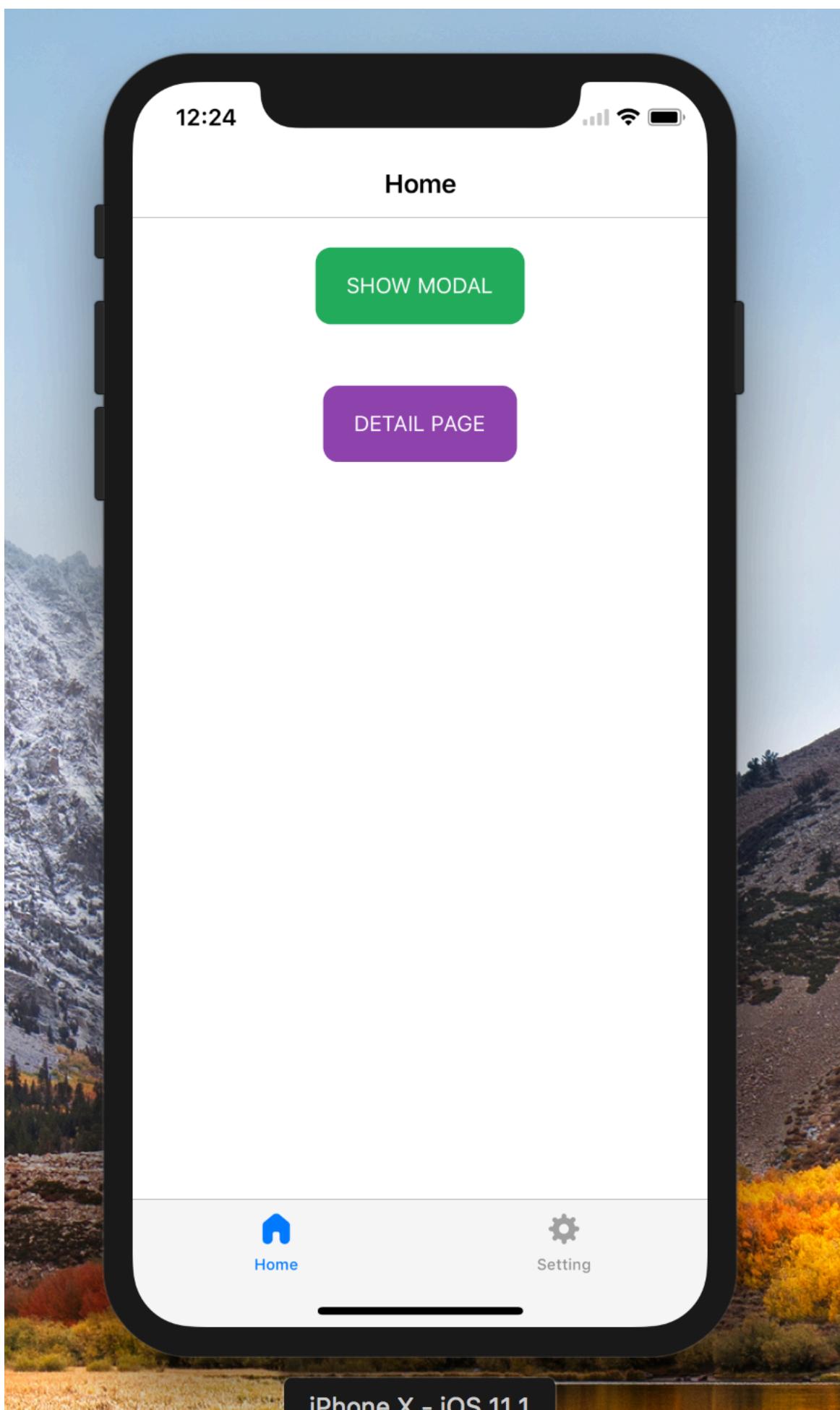
```
import { Navigation } from 'react-native-navigation';
import Login from './Login';
import Register from './Register';
import Home from './Home';
import Setting from './Setting';
import ModalPage from './ModalPage';
import DetailPage from './DetailPage';

// register all screens of the app (including internal ones)
export function registerScreens() {
  Navigation.registerComponent('belajarRn.Login', () => Login);
  Navigation.registerComponent('belajarRn.Register', () => Register);
  Navigation.registerComponent('belajarRn.Home', () => Home);
  Navigation.registerComponent('belajarRn.Settings', () => Setting);
  Navigation.registerComponent('belajarRn.ModalPage', () => ModalPage);
  Navigation.registerComponent('belajarRn.DetailPage', () => DetailPage);
}
```

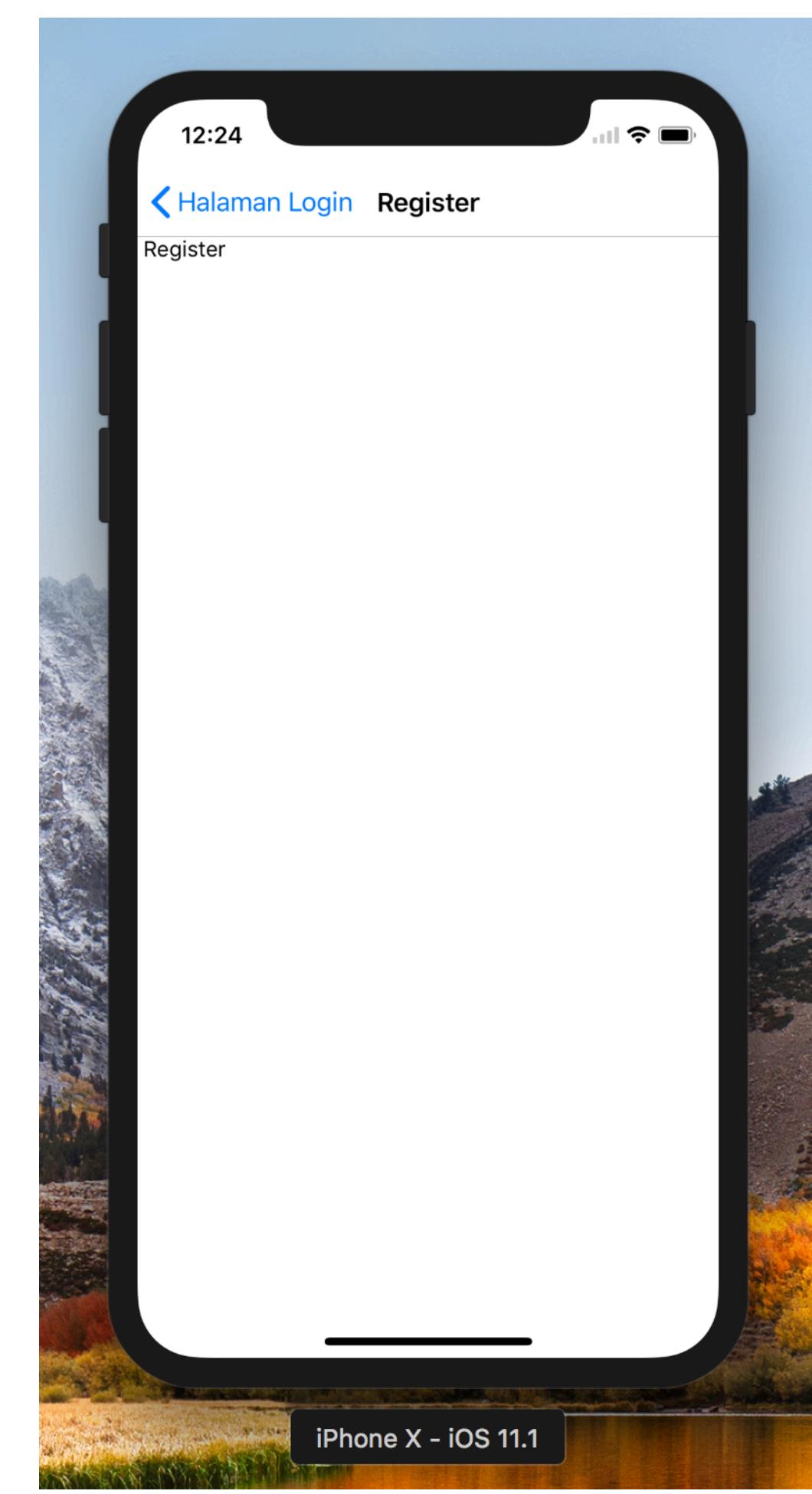
Single Page Root



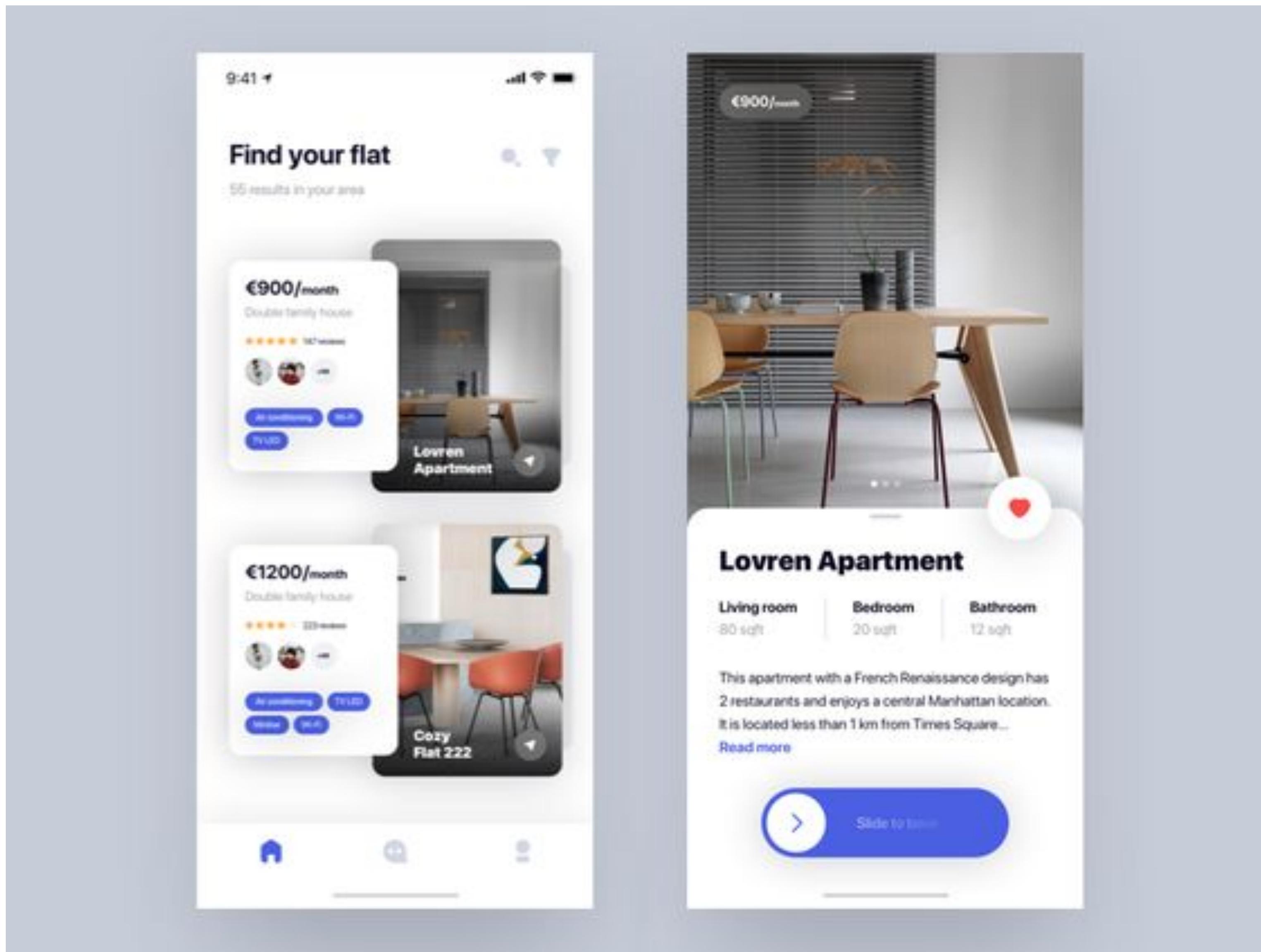
Tab Based Root



Push Page



Mini Project



WAKE UP!

IT'S DEMO TIME

memegenerator.net



MALAS CARI DI GOOGLE JENAZAH
SUSAH MINGKEM



AZAB