

Manual técnico

► Ide de desarrollo de la App

Nosotros como grupo decidimos crear una app desarrollada nativamente para el sistema operativo de Android. El IDE que escogimos para la realización de la app es Android Studio, para el entorno de desarrollo integrado (IDE) claramente creada para Android.

. Manual de Instalación de Android Studio:



En este programa se incluye el SDK y el emulador de un terminal móvil. Además se escogió porque ofrece las siguientes características que facilitan el trabajo:

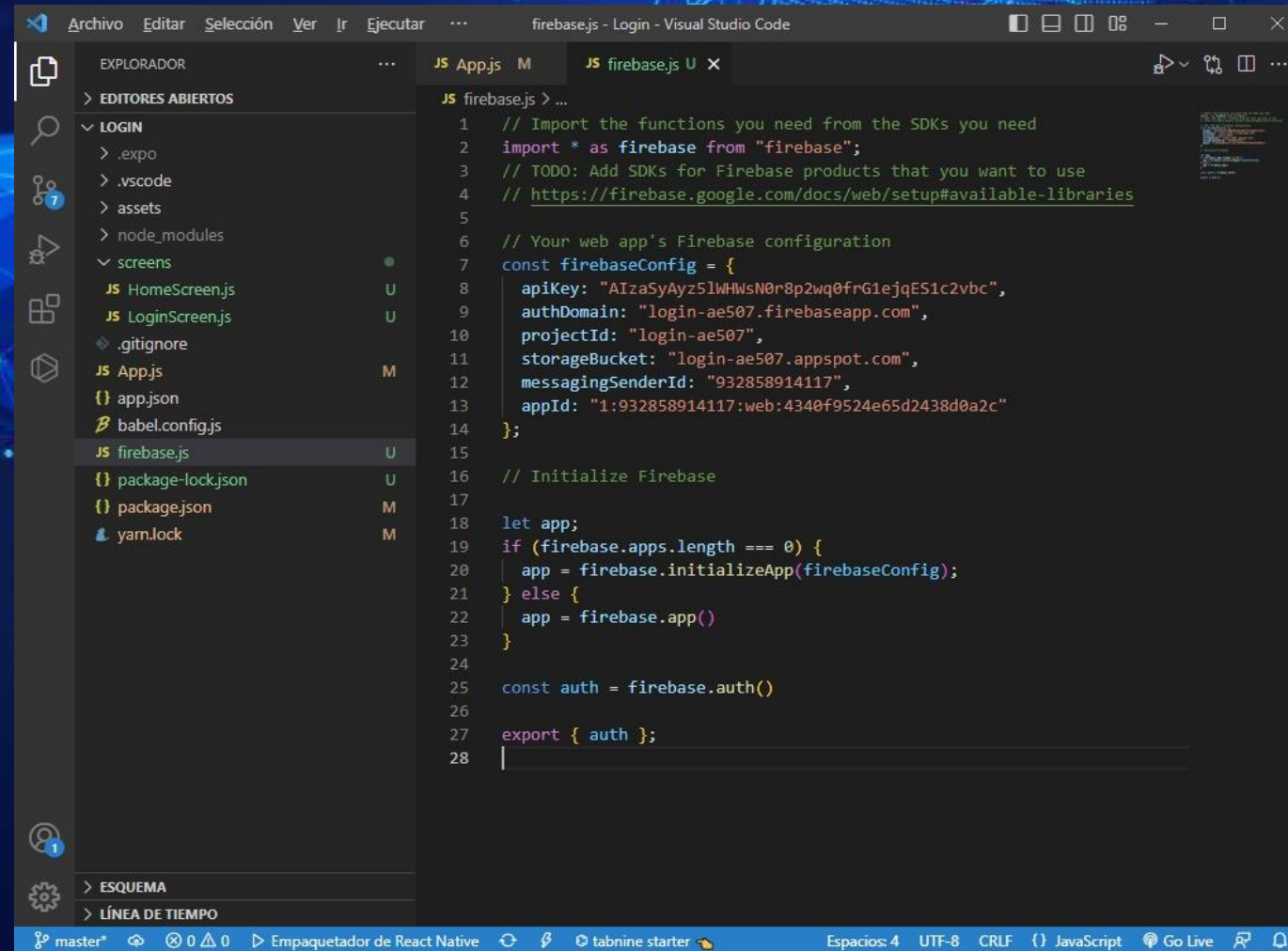
. Un entorno de desarrollo claro y robusto.

. Facilidad para testear el funcionamiento en otros tipos de dispositivos.



Firebase

- La presente app se realizó con Firebase el cual es un conjunto de herramientas orientadas para la creación de aplicaciones de alta calidad, para lo que sería consultar su usuario.



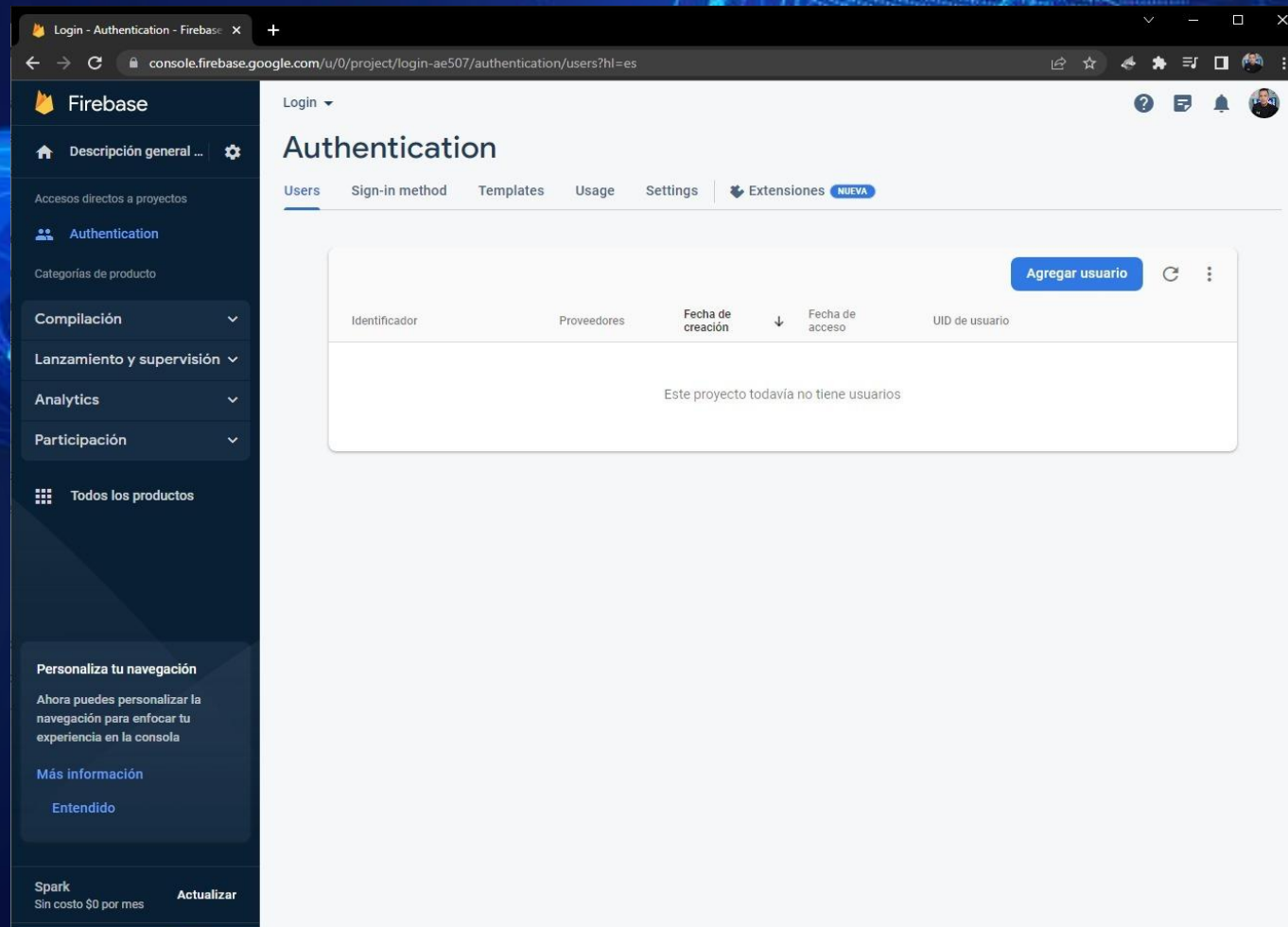
The screenshot displays the Visual Studio Code interface for a project named 'firebase.js - Login'. The Explorer sidebar on the left shows the project structure under the 'LOGIN' folder, including files like .expo, .vscode, assets, node_modules, screens (containing HomeScreen.js and LoginScreen.js), .gitignore, App.js, app.json, babel.config.js, package-lock.json, package.json, and yarn.lock. The main editor area shows the 'firebase.js' file with the following code:

```
JS firebase.js > ...
1 // Import the functions you need from the SDKs you need
2 import * as firebase from "firebase";
3 // TODO: Add SDKs for Firebase products that you want to use
4 // https://firebase.google.com/docs/web/setup#available-libraries
5
6 // Your web app's Firebase configuration
7 const firebaseConfig = {
8   apiKey: "AIzaSyAyz5lWwHsN0r8p2wq0frG1ejqE51c2vbc",
9   authDomain: "login-ae507.firebaseio.com",
10  projectId: "login-ae507",
11  storageBucket: "login-ae507.appspot.com",
12  messagingSenderId: "932858914117",
13  appId: "1:932858914117:web:4340f9524e65d2438d0a2c"
14 };
15
16 // Initialize Firebase
17
18 let app;
19 if (firebase.apps.length === 0) {
20   app = firebase.initializeApp(firebaseConfig);
21 } else {
22   app = firebase.app()
23 }
24
25 const auth = firebase.auth()
26
27 export { auth };
28
```

The status bar at the bottom indicates the current file is 'master', the encoding is 'UTF-8', the line ending is 'CRLF', and the language is 'JavaScript'. It also shows the 'Empaquetador de React Native' and 'tabnine starter' extensions.

Firebase Real time Data base

Se utilizó Firebase Real time Data base, para la base de datos alojada en la nube. Los datos se van a almacenar en un formato JSON y se sincronizaran en tiempo real con cada usuario conectado.

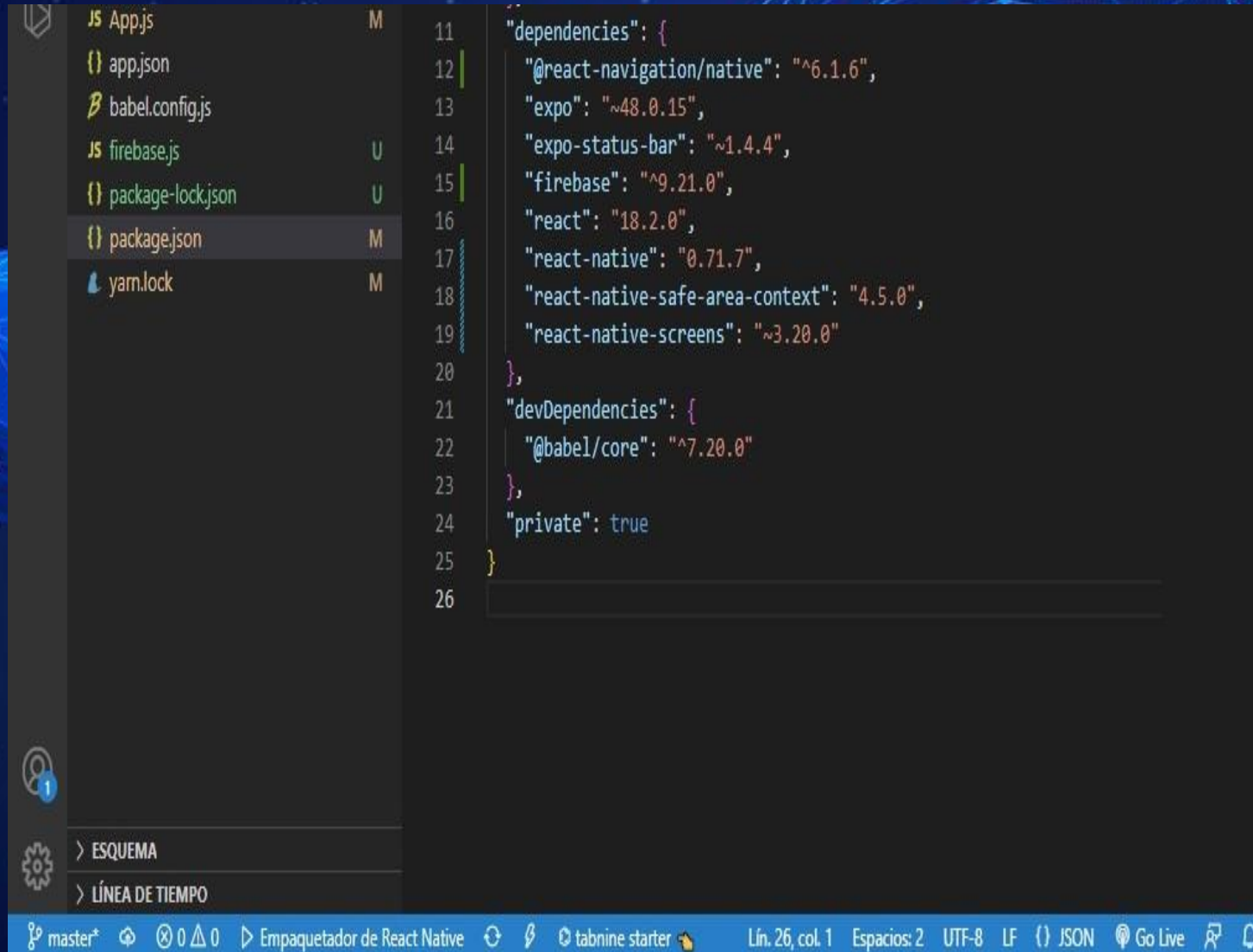


The screenshot displays the Firebase Authentication console in a web browser. The left sidebar contains the Firebase logo and navigation links for 'Descripción general ...', 'Accesos directos a proyectos', 'Authentication', 'Categorías de producto', 'Compilación', 'Lanzamiento y supervisión', 'Analytics', 'Participación', and 'Todos los productos'. The main content area is titled 'Authentication' and includes tabs for 'Users', 'Sign-in method', 'Templates', 'Usage', 'Settings', and 'Extensiones'. A table header is visible with columns: 'Identificador', 'Proveedores', 'Fecha de creación', 'Fecha de acceso', and 'UID de usuario'. A blue button labeled 'Agregar usuario' is located in the top right of the table area. Below the table, a message states 'Este proyecto todavía no tiene usuarios'. At the bottom of the sidebar, there is a 'Spark' section with the text 'Sin costo \$0 por mes' and an 'Actualizar' button.

Identificador	Proveedores	Fecha de creación	Fecha de acceso	UID de usuario
Este proyecto todavía no tiene usuarios				

Estructura de la App

► Dependencies

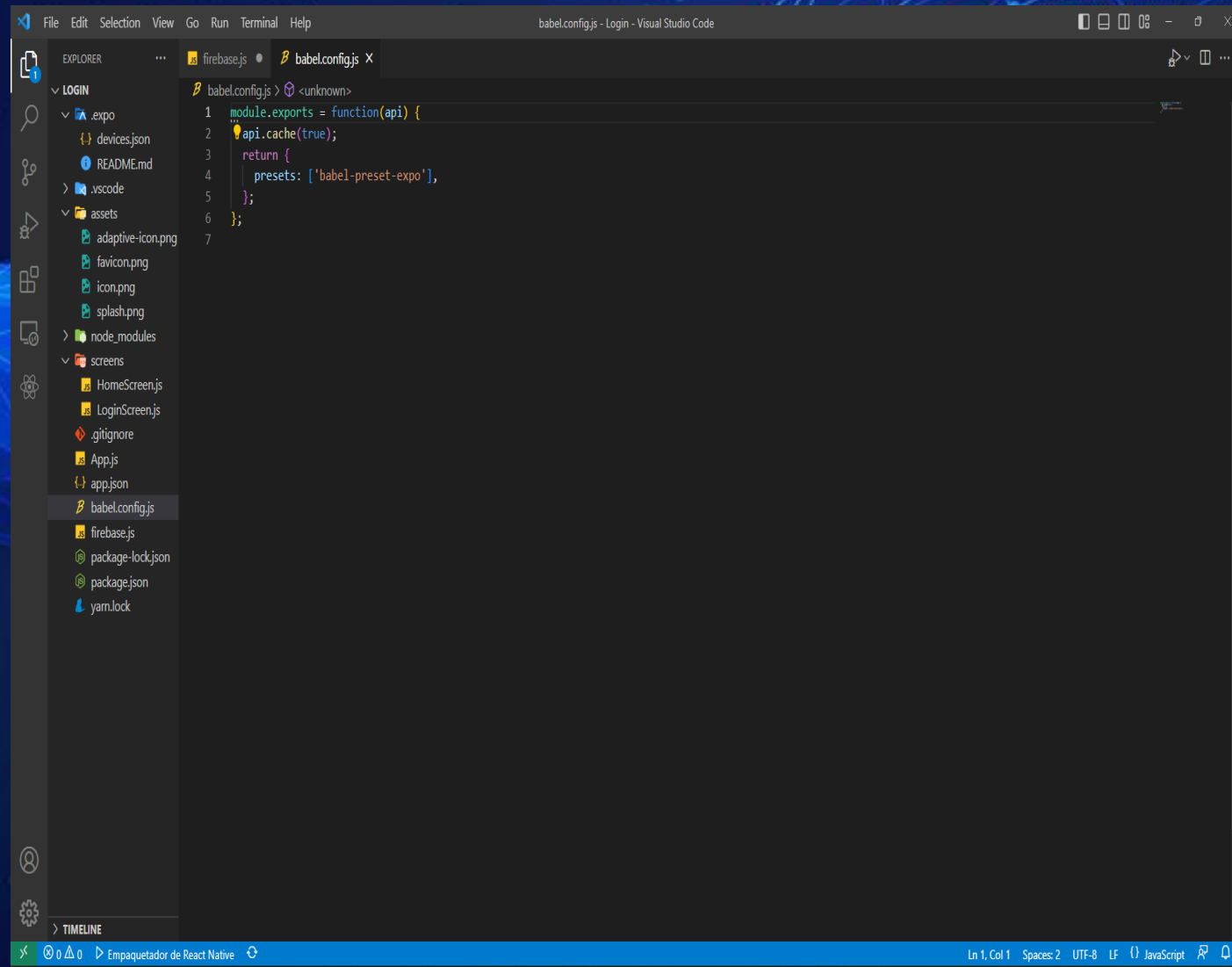


The screenshot shows a code editor with a dark theme. On the left, the file explorer displays a list of files: `App.js` (JS), `app.json` (JSON), `babel.config.js` (JS), `firebase.js` (JS), `package-lock.json` (JSON), `package.json` (JSON), and `yam.lock` (YAML). The `package.json` file is selected and its content is displayed in the main editor area. The content of `package.json` is as follows:

```
11 "dependencies": {
12   "@react-navigation/native": "^6.1.6",
13   "expo": "~48.0.15",
14   "expo-status-bar": "~1.4.4",
15   "firebase": "^9.21.0",
16   "react": "18.2.0",
17   "react-native": "0.71.7",
18   "react-native-safe-area-context": "4.5.0",
19   "react-native-screens": "~3.20.0"
20 },
21 "devDependencies": {
22   "@babel/core": "^7.20.0"
23 },
24 "private": true
25 }
26
```

At the bottom of the editor, there is a status bar with the following information: `master*`, `0 0 0`, `Empaquetador de React Native`, `tabnine starter`, `Lín. 26, col. 1`, `Espacios: 2`, `UTF-8`, `LF`, `{}` JSON, `Go Live`, and icons for search, refresh, and help.

Babel.configuration

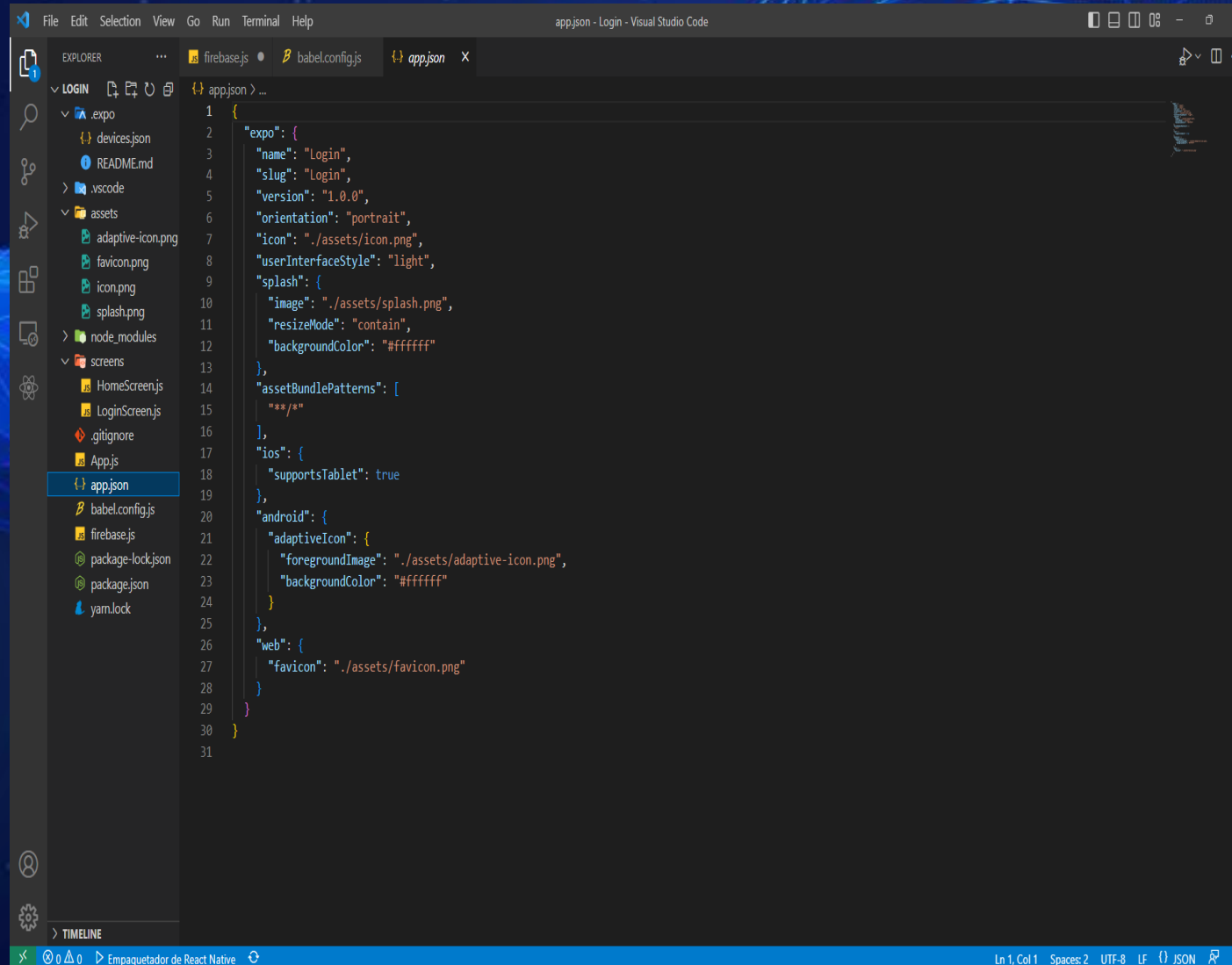


The screenshot shows the Visual Studio Code interface with a project named 'Login'. The Explorer sidebar on the left lists the project structure, including files like .expo, README.md, assets, node_modules, screens, and various JSON files. The file 'babel.config.js' is selected and open in the editor. The editor shows the following JavaScript code:

```
babel.config.js > <unknown>
1 module.exports = function(api) {
2   api.cache(true);
3   return {
4     presets: ['babel-preset-expo'],
5   };
6 };
7
```

The status bar at the bottom indicates the file is at 'Ln 1, Col 1' with 'Spaces: 2', 'UTF-8' encoding, and 'LF' line endings. The language is set to 'JavaScript'.

App.Json

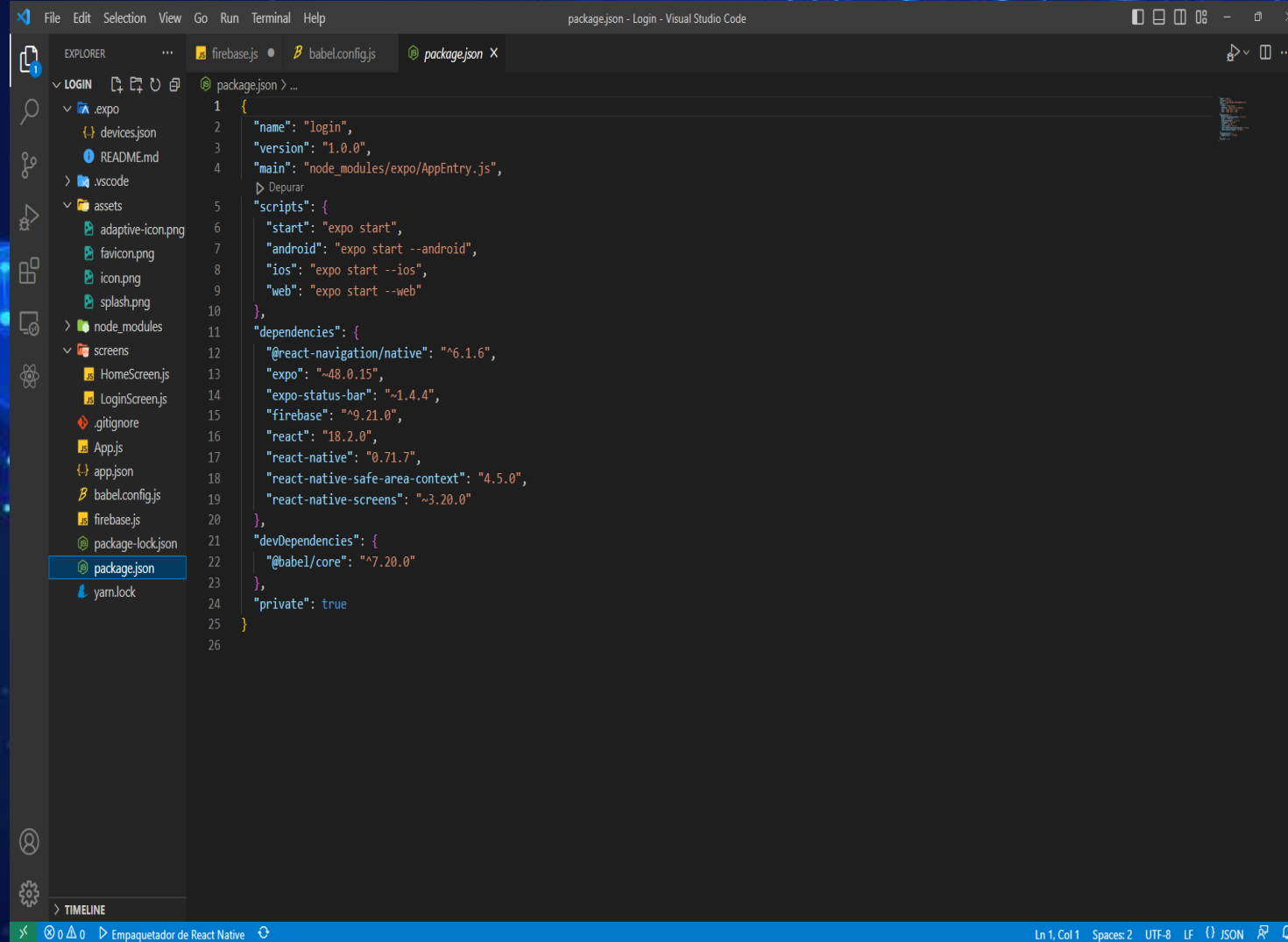


The screenshot shows the Visual Studio Code editor with the `app.json` file open. The Explorer sidebar on the left shows the project structure, including `LOGIN`, `assets`, `screens`, and `App.js`. The `app.json` file is selected in the Explorer. The main editor displays the JSON configuration for the app, which includes the app name, slug, version, orientation, icon, user interface style, splash screen, asset bundle patterns, and platform-specific configurations for iOS and Android.

```
1 {
2   "expo": {
3     "name": "Login",
4     "slug": "Login",
5     "version": "1.0.0",
6     "orientation": "portrait",
7     "icon": "./assets/icon.png",
8     "userInterfaceStyle": "light",
9     "splash": {
10      "image": "./assets/splash.png",
11      "resizeMode": "contain",
12      "backgroundColor": "#ffffff"
13    },
14    "assetBundlePatterns": [
15      "**/*"
16    ],
17    "ios": {
18      "supportsTablet": true
19    },
20    "android": {
21      "adaptiveIcon": {
22        "foregroundImage": "./assets/adaptive-icon.png",
23        "backgroundColor": "#ffffff"
24      }
25    },
26    "web": {
27      "favicon": "./assets/favicon.png"
28    }
29  }
30 }
31
```

The status bar at the bottom indicates the file is at line 1, column 1, with 2 spaces, in UTF-8 encoding, using LF line endings, and is a JSON file.

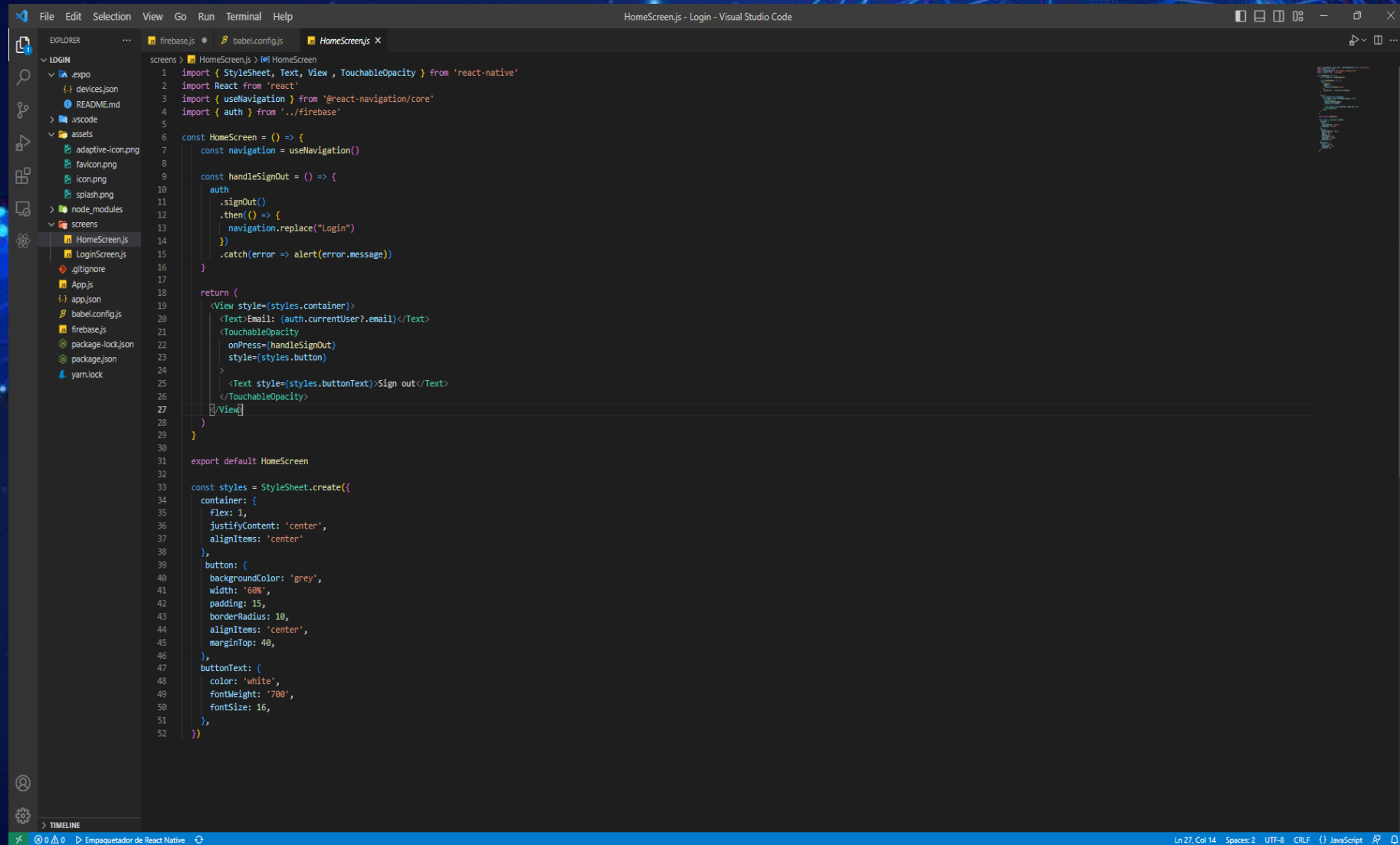
Package.json



```
1 {
2   "name": "login",
3   "version": "1.0.0",
4   "main": "node_modules/expo/AppEntry.js",
5   "scripts": {
6     "start": "expo start",
7     "android": "expo start --android",
8     "ios": "expo start --ios",
9     "web": "expo start --web"
10  },
11  "dependencies": {
12    "@react-navigation/native": "^6.1.6",
13    "expo": "~48.0.15",
14    "expo-status-bar": "~1.4.4",
15    "firebase": "^9.21.0",
16    "react": "18.2.0",
17    "react-native": "0.71.7",
18    "react-native-safe-area-context": "4.5.0",
19    "react-native-screens": "~3.20.0"
20  },
21  "devDependencies": {
22    "@babel/core": "^7.20.0"
23  },
24  "private": true
25 }
```

Ln 1, Col 1 Spaces: 2 UTF-8 LF JSON

screens



```
File Edit Selection View Go Run Terminal Help
HomeScreen.js - Login - Visual Studio Code

EXPLORER
LOGIN
  .expo
  {} devices.json
  {} README.md
  {} .vscode
  assets
    adaptive-icon.png
    favicon.png
    icon.png
    splash.png
  node_modules
  screens
    HomeScreen.js
    LoginScreen.js
  .gitignore
  App.js
  {} app.json
  {} babel.config.js
  {} firebase.js
  {} package-lock.json
  {} package.json
  {} yarn.lock

screns > HomeScreen.js > HomeScreen
1 import { StyleSheet, Text, View, TouchableOpacity } from 'react-native'
2 import React from 'react'
3 import { useNavigation } from '@react-navigation/core'
4 import { auth } from '../firebase'
5
6 const HomeScreen = () => {
7   const navigation = useNavigation()
8
9   const handleSignOut = () => {
10     auth
11       .signOut()
12       .then(() => {
13         navigation.replace("Login")
14       })
15     .catch(error => alert(error.message))
16   }
17
18   return (
19     <View style={styles.container}>
20       <Text>Email: {auth.currentUser?.email}</Text>
21       <TouchableOpacity
22         onPress={handleSignOut}
23         style={styles.button}>
24         <Text style={styles.buttonText}>Sign out</Text>
25       </TouchableOpacity>
26     </View>
27   )
28 }
29
30 export default HomeScreen
31
32
33 const styles = StyleSheet.create({
34   container: {
35     flex: 1,
36     justifyContent: 'center',
37     alignItems: 'center'
38   },
39   button: {
40     backgroundColor: 'grey',
41     width: '60%',
42     padding: 15,
43     borderRadius: 10,
44     alignItems: 'center',
45     marginTop: 40,
46   },
47   buttonText: {
48     color: 'white',
49     fontWeight: '700',
50     fontSize: 16,
51   },
52 })
```

Ln 27, Col 14 Spaces: 2 UTF-8 CRLF () JavaScript

