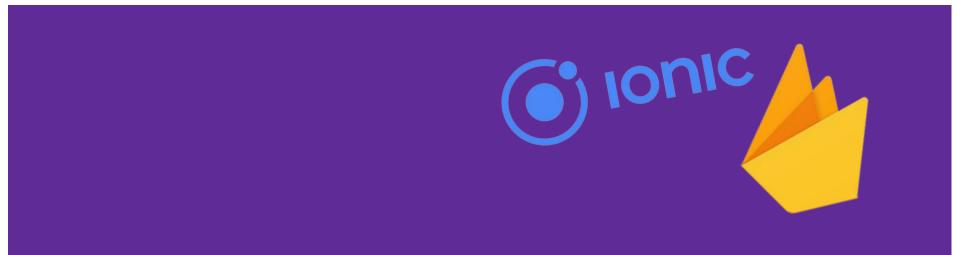
Chat con Ionic 3 + Firebase

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Ionic 3

- Framework de desarrollo de aplicaciones móviles utilizando tecnologías web
 - Angular
 - Typescript
 - SASS
 - O HTML 5
- Plataformas soportadas
 - Android
 - IOS
- Links
 - Documentación: https://ionicframework.com/
 - Consola de administración: https://dashboard.ionicjs.com/apps



Firebase

- Plataforma, de Google, para el desarrollo de aplicaciones web y aplicaciones móviles
- Servicios como:
 - Firebase Cloud Messaging (notificaciones)
 - Firebase Auth (autenticación)
 - Realtime Database y Firebase Firestore (base de datos)
 - Firebase Storage (almacenamiento de ficheros)
- Link consola administración
 - https://console.firebase.google.com



Chat = Ionic 3 + Firebase



Primeros pasos

- Clonar el proyecto: git clone https://github.com/sarazafe/firebase-ionic-chat.git
- Ir a la carpeta del proyecto e instalar el plugin de firebase
 - o npm install --save firebase
 - Añadir al proyecto → import * as Firebase from 'firebase'; en app.components.ts
 - Inicializar firebase → firebase.initializeApp(FirebaseConfig); en el constructor de app.components.ts
 - Añadir la configuración de Firebase en firebase-config.ts

```
export const FirebaseConfig = {
    apiKey: "AlzaSyAK2aBe_WODidZW9lCqIFQPI5eXOTpFvNU",
    authDomain: "chat-59245.firebaseapp.com",
    databaseURL: "https://chat-59245.firebaseio.com",
    projectId: "chat-59245",
    storageBucket: "chat-59245.appspot.com",
    messagingSenderId: "561348409962"
};
```

Darse de alta

- LoginProvider
 - signUp

return firebase.auth().createUserWithEmailAndPassword(user.email, user.password);

- LoginPage
 - signUp

Login

- LoginProvider
 - o login

return this.auth.signInWithEmailAndPassword(user.email,user.password);

- LoginPage
 - doLogin

```
user.uid = value.uid;
this.navCtrl.push(ChatPage, {
user: user
});
```

Iniciar room

- RoomProvider
 - initRoom

return this.database.ref(Endpoints.ROOMS + Chat.DEFAULT_ROOM_ID).set(new Room(Chat.DEFAULT_ROOM_ID, Chat.DEFAULT_ROOM_NAME));

Iniciar room (II)

- ChatPage
 - initRoom

```
this.roomProvider.initRoom().then(() => {
  // Add user to the room it he/she has not been added
  if (!this.member) {
   this.member = new Member({
    uid: this.user.uid,
    email: this.user.email,
    roomId: Chat.DEFAULT_ROOM_ID
   }); this.memberProvider.addMember(this.member)
    .then().catch(function (error) {
    console.log("Error adding member", error);
 }).catch(function (error) {
  console.log("Init room error", error);
```

Añadir usuario al chat

- MemberProvider
 - addMember

return this.database.ref(Endpoints.MEMBERS + member.roomId + "/" + member.uid).set(member);

- ChatPage
 - onNewMember

```
this.memberProvider.getMemberReference().on('child_added', (val) => {
    let member: Member = new Member(val.val());
    if (this.user.email === member.email) {
        this.member = member;
    }
    this.members.push(new Member(val.val()));
});
```

Enviar mensajes

- MessageProvider
 - saveMessage

return this.getMessageReference().push().set(message);

- ChatPage
 - sendMessage

```
this.messageProvider.saveMessage(message)
.then(()=> {
   // Clean sent message
   this.message = '';
}).catch(function (error) {
   console.log("Error saving message", error);
});
```

Recibir mensajes

- ChatPage
 - onNewMessage

```
this.messageProvider.getMessageReference().on('child_added', (val) => {
  let message: Message = new Message(val.val());
  if (this.member.email === message.sender) {
    message.position = 'right';
  } else {
    message.position = 'left';
  }
  this.messages.push(message);
});
```

