Resumen: Con el paso del tiempo, la comunidad cinéfila ha crecido significativamente, aumentando la demanda de herramientas que permitan a los usuarios no solo buscar y valorar películas, sino también interactuar con otros amantes del cine. Este proyecto surge con el objetivo de desarrollar una **aplicación web** que combine un sistema de reseñas y recomendaciones con una **red social temática**, donde los usuarios puedan compartir sus gustos, conectar con amigos y descubrir nuevas personas con intereses similares. Además, la aplicación integrará funcionalidades innovadoras basadas en **inteligencia artificial (IA)**, como un sistema de recomendaciones personalizadas que se adaptará a las preferencias y comportamientos de cada usuario (estos detalles se ampliarán más adelante).

La aplicación se desarrollará utilizando **Angular** para el frontend y se desplegará en un entorno de **cloud computing** para garantizar escalabilidad, disponibilidad y un alto rendimiento. Este proyecto no solo busca mejorar la experiencia del usuario en la selección y discusión de películas, sino también demostrar cómo la combinación de IA y cloud computing puede potenciar aplicaciones web modernas, ofreciendo soluciones innovadoras en el ámbito del entretenimiento cinematográfico.

Palabras Clave: Aplicación Web, Cloud, IA, cine

**Abstract**: Over time, the community of movie enthusiasts has grown significantly, increasing the demand for tools that allow users not only to search for and rate films but also to interact with other cinema lovers. This project aims to develop a web application that combines a review and recommendation system with a themed social network, where users can share their tastes, connect with friends, and discover new people with similar interests. Additionally, the application will integrate innovative functionalities based on artificial intelligence (AI), such as a personalized recommendation system that adapts to the preferences and behaviors of each user (these details will be expanded upon later).

The application will be developed using Angular for the frontend and deployed in a cloud computing environment to ensure scalability, availability, and high performance. This project not only seeks to enhance the user experience in movie selection and discussion but also to demonstrate how the combination of AI and cloud computing can empower modern web applications, offering innovative solutions in the field of cinematic entertainment.

**Keywords**: Web Application, Cloud, AI, Cinema

INDICE

1. Introducción
   1. Motivación

Estamos en una era digital donde el constante consumo audiovisual es una de las principales formas de entretenimiento a nivel global. Las plataformas de streaming han transformado la forma en la que consumimos el contenido que ofrecen y es más raro que nunca que alguien se abarque en la tarea de buscar contenido diferente al ya ofrecido en estas plataformas, nos adaptamos a lo que se nos ofrece sin rechistar.

Estas plataformas presentan enfoques fragmentados, algunos presentan catálogos amplios sin una fuerte interacción social, mientras que otros directamente carecen de un sistema de recomendaciones adecuado.

Esta carencia abre una oportunidad en el desarrollo de una herramienta que combine en un mismo entorno funcionalidades de búsqueda, valoración y recomendaciones inteligentes, junto con un espacio social activo donde los usuarios tengan la posibilidad de interactuar y compartir experiencias cinematográficas.

* 1. Objetivos

El objetivo principal es desarrollar una aplicación web que integre un sistema de búsqueda, reseñas y recomendaciones de películas, con funcionalidades sociales y personalización mediante inteligencia artificial. A grandes rasgos, se busca crear algo innovador, visualmente atractivo, seguro y bien construido, que sea capaz de ofrecer una experiencia única al usuario utilizando todo tipo de herramientas, desde las más clásicas hasta las más innovadoras, siempre que sean capaces de mejorar la experiencia de usuario en cualquiera de las formas posibles.

* 1. Alcance del proyecto

La aplicación abarcará todo el flujo de interacción del usuario, desde el registro y la personalización de su perfil, hasta la búsqueda y recomendación de películas. También incluirá una sección social donde los usuarios puedan descubrir nuevos contenidos a partir de las opiniones y listas de otros miembros.

No se cubrirá la transmisión ni reproducción directa de películas ni series, ya que el objetivo de la aplicación está centrado en la interacción, descubrimiento y análisis de contenido cinematográfico.

**? What features would you like to setup? Authentication, Google Analytics, Firestore, Cloud Functions (callable), Cloud Messaging, Cloud Storage**

**NO Data Connect: Set up a Firebase Data Connect service**

**SI Firestore: Configure security rules and indexes files for Firestore**

**SI Genkit: Setup a new Genkit project with Firebase**

**SI Functions: Configure a Cloud Functions directory and its files**

**SI App Hosting: Enable web app deployments with App Hosting**

**NO Hosting: Configure files for Firebase Hosting and (optionally) set up GitHub Action deploys**

**SI Storage: Configure a security rules file for Cloud Storage**

**NO Emulators: Set up local emulators for Firebase products**

**NO Remote Config: Configure a template file for Remote Config**

**SI Extensions: Set up an empty Extensions manifest**

**NO Realtime Database: Configure a security rules file for Realtime Database and (optionally) provision default instance**

PS C:\Users\Juanma\Desktop\TFG\_Leandro\cineapp> npm install firebase

added 62 packages, and audited 953 packages in 36s

130 packages are looking for funding

run `npm fund` for details

11 vulnerabilities (4 low, 7 moderate)

To address all issues (including breaking changes), run:

npm audit fix --force

Run `npm audit` for details.

npm notice

npm notice New major version of npm available! 10.5.0 -> 11.5.2

npm notice Changelog: https://github.com/npm/cli/releases/tag/v11.5.2

npm notice Run npm install -g npm@11.5.2 to update!

npm notice

PS C:\Users\Juanma\Desktop\TFG\_Leandro\cineapp> npm install @angular/fire

npm ERR! code ERESOLVE

npm ERR! ERESOLVE unable to resolve dependency tree

npm ERR!

npm ERR! While resolving: cineapp@0.0.0

npm ERR! Found: @angular/common@17.3.12

npm ERR! node\_modules/@angular/common

npm ERR! @angular/common@"^17.3.0" from the root project

npm ERR!

npm ERR! Could not resolve dependency:

npm ERR! peer @angular/common@"^20.0.0" from @angular/fire@20.0.1

npm ERR! @angular/fire@"\*" from the root project

npm ERR!

npm ERR! Fix the upstream dependency conflict, or retry

npm ERR! this command with --force or --legacy-peer-deps

npm ERR! to accept an incorrect (and potentially broken) dependency resolution.

npm ERR!

npm ERR!

npm ERR! For a full report see:

npm ERR! C:\Users\Juanma\AppData\Local\npm-cache\\_logs\2025-08-21T20\_26\_17\_579Z-eresolve-report.txt

npm ERR! A complete log of this run can be found in: C:\Users\Juanma\AppData\Local\npm-cache\\_logs\2025-08-21T20\_26\_17\_579Z-debug-0.log

PS C:\Users\Juanma\Desktop\TFG\_Leandro\cineapp> npm audit fix

changed 1 package, and audited 953 packages in 14s

130 packages are looking for funding

run `npm fund` for details

# npm audit report

esbuild <=0.24.2

Severity: moderate

esbuild enables any website to send any requests to the development server and read the response - https://github.com/advisories/GHSA-67mh-4wv8-2f99

fix available via `npm audit fix --force`

Will install @angular-devkit/build-angular@20.2.0, which is a breaking change

node\_modules/esbuild

node\_modules/vite/node\_modules/esbuild

@angular-devkit/build-angular <=19.2.14 || 20.0.0-next.0 - 20.0.0-rc.4

Depends on vulnerable versions of @angular-devkit/build-webpack

Depends on vulnerable versions of @vitejs/plugin-basic-ssl

Depends on vulnerable versions of esbuild

Depends on vulnerable versions of http-proxy-middleware

Depends on vulnerable versions of inquirer

Depends on vulnerable versions of vite

Depends on vulnerable versions of webpack-dev-server

node\_modules/@angular-devkit/build-angular

vite 0.11.0 - 6.1.6

Depends on vulnerable versions of esbuild

node\_modules/vite

@vitejs/plugin-basic-ssl <=1.1.0

Depends on vulnerable versions of vite

node\_modules/@vitejs/plugin-basic-ssl

http-proxy-middleware 1.3.0 - 2.0.8

Severity: moderate

http-proxy-middleware allows fixRequestBody to proceed even if bodyParser has failed - https://github.com/advisories/GHSA-9gqv-wp59-fq42

fix available via `npm audit fix --force`

Will install @angular-devkit/build-angular@20.2.0, which is a breaking change

node\_modules/http-proxy-middleware

tmp <=0.2.3

tmp allows arbitrary temporary file / directory write via symbolic link `dir` parameter - https://github.com/advisories/GHSA-52f5-9888-hmc6

fix available via `npm audit fix --force`

Will install @angular-devkit/build-angular@20.2.0, which is a breaking change

node\_modules/tmp

external-editor >=1.1.1

Depends on vulnerable versions of tmp

node\_modules/external-editor

inquirer 3.0.0 - 8.2.6 || 9.0.0 - 9.3.7

Depends on vulnerable versions of external-editor

node\_modules/inquirer

@angular/cli <=1.4.0-rc.2 || 7.0.0-beta.0 - 18.1.0-rc.1

Depends on vulnerable versions of inquirer

node\_modules/@angular/cli

webpack-dev-server <=5.2.0

Severity: moderate

webpack-dev-server users' source code may be stolen when they access a malicious web site with non-Chromium based browser - https://github.com/advisories/GHSA-9jgg-88mc-972h

fix available via `npm audit fix --force`

Will install @angular-devkit/build-angular@20.2.0, which is a breaking change

node\_modules/webpack-dev-server

@angular-devkit/build-webpack <=0.1703.17

Depends on vulnerable versions of webpack-dev-server

node\_modules/@angular-devkit/build-webpack

11 vulnerabilities (4 low, 7 moderate)

To address all issues (including breaking changes), run:

npm audit fix --force

PS C:\Users\Juanma\Desktop\TFG\_Leandro\cineapp> ng add @angular/fire

ℹ Using package manager: npm

✔ Found compatible package version: @angular/fire@17.1.0.

✔ Package information loaded.

The package @angular/fire@17.1.0 will be installed and executed.

Would you like to proceed? Yes

✔ Packages successfully installed.

UPDATE package.json (1121 bytes)

✔ Packages installed successfully.

? What features would you like to setup? Authentication, Google Analytics, Firestore, Cloud Functions (callable), Cloud Messaging, Cloud Storage

✔ firebase-tools installed globally.

Using firebase-tools version 14.13.0

i The Firebase CLI’s MCP server feature can optionally make use of Gemini in Firebase. Learn more about Gemini in Firebase and how it uses your data: https://firebase.google.com/docs/gemini-in-firebase#how-gemini-in-firebase-uses-your-data

✔ Enable Gemini in Firebase features? Yes

i Firebase optionally collects CLI and Emulator Suite usage and error reporting information to help improve our products. Data is collected in accordance with Google's privacy policy (https://policies.google.com/privacy) and is not used to identify you.

✔ Allow Firebase to collect CLI and Emulator Suite usage and error reporting information? Yes

i To change your preferences at any time, run `firebase logout` and `firebase login` again.

Visit this URL on this device to log in:

https://accounts.google.com/o/oauth2/auth?client\_id=563584335869-fgrhgmd47bqnekij5i8b5pr03ho849e6.apps.googleusercontent.com&scope=email%20openid%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Ffirebase%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloud-plat

Waiting for authentication...

+ Success! Logged in as leandromart8888@gmail.com

✔ Preparing the list of your Firebase projects

? Please select a project: Movieffaut

? Please select an app: moveiffaut

UPDATE .gitignore (644 bytes)

PS C:\Users\Juanma\Desktop\TFG\_Leandro\cineapp> npm install -g firebase-tools

npm WARN deprecated node-domexception@1.0.0: Use your platform's native DOMException instead

changed 715 packages in 32s

82 packages are looking for funding

run `npm fund` for details

PS C:\Users\Juanma\Desktop\TFG\_Leandro\cineapp> firebase --version

14.13.0

PS C:\Users\Juanma\Desktop\TFG\_Leandro\cineapp> firebase login

Already logged in as leandromart8888@gmail.com

PS C:\Users\Juanma\Desktop\TFG\_Leandro\cineapp> firebase init

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You're about to initialize a Firebase project in this directory:

C:\Users\Juanma\Desktop\TFG\_Leandro\cineapp

Before we get started, keep in mind:

\* You are initializing within an existing Firebase project directory

✔ Are you ready to proceed? Yes

✔ Which Firebase features do you want to set up for this directory? Press Space to select features, then Enter to confirm your choices. Firestore: Configure

security rules and indexes files for Firestore, Genkit: Setup a new Genkit project with Firebase, Functions: Configure a Cloud Functions directory and its files,

App Hosting: Enable web app deployments with App Hosting, Storage: Configure a security rules file for Cloud Storage, Extensions: Set up an empty Extensions

manifest

=== Project Setup

First, let's associate this project directory with a Firebase project.

You can create multiple project aliases by running firebase use --add,

but for now we'll just set up a default project.

✔ Please select an option: Use an existing project

✔ Select a default Firebase project for this directory: movieffaut (Movieffaut)

i Using project movieffaut (Movieffaut)

=== Firestore Setup

i firestore: ensuring required API firestore.googleapis.com is enabled...

! firestore: missing required API firestore.googleapis.com. Enabling now...

✔ Please select the location of your Firestore database: eur3

Firestore Security Rules allow you to define how and when to allow

requests. You can keep these rules in your project directory

and publish them with firebase deploy.

✔ What file should be used for Firestore Rules? firestore.rules

Firestore indexes allow you to perform complex queries while

maintaining performance that scales with the size of the result

set. You can keep index definitions in your project directory

and publish them with firebase deploy.

✔ What file should be used for Firestore indexes? firestore.indexes.json

+ Wrote firestore.rules

+ Wrote firestore.indexes.json

=== Genkit Setup

✔ Genkit's Firebase integration uses Cloud Functions for Firebase with TypeScript.

Initialize Functions to continue? Yes

Let's create a new codebase for your functions.

A directory corresponding to the codebase will be created in your project

with sample code pre-configured.

See https://firebase.google.com/docs/functions/organize-functions for

more information on organizing your functions using codebases.

Functions can be deployed with firebase deploy.

✔ Do you want to use ESLint to catch probable bugs and enforce style? Yes

+ Wrote functions/package.json

+ Wrote functions/.eslintrc.js

+ Wrote functions/tsconfig.dev.json

+ Wrote functions/tsconfig.json

+ Wrote functions/src/index.ts

+ Wrote functions/.gitignore

✔ Do you want to install dependencies with npm now? Yes

npm WARN EBADENGINE Unsupported engine {

npm WARN EBADENGINE package: undefined,

npm WARN EBADENGINE required: { node: '22' },

npm WARN EBADENGINE current: { node: 'v20.12.1', npm: '10.5.0' }

npm WARN EBADENGINE }

npm WARN deprecated inflight@1.0.6: This module is not supported, and leaks memory. Do not use it. Check out lru-cache if you want a good and tested way to coalesce async requests by a key value, which is much more comprehensive and powerful.

npm WARN deprecated rimraf@3.0.2: Rimraf versions prior to v4 are no longer supported

npm WARN deprecated glob@7.2.3: Glob versions prior to v9 are no longer supported

npm WARN deprecated glob@7.2.3: Glob versions prior to v9 are no longer supported

npm WARN deprecated @humanwhocodes/object-schema@2.0.3: Use @eslint/object-schema instead

npm WARN deprecated @humanwhocodes/config-array@0.13.0: Use @eslint/config-array instead

npm WARN deprecated eslint@8.57.1: This version is no longer supported. Please see https://eslint.org/version-support for other options.

added 692 packages, and audited 693 packages in 39s

162 packages are looking for funding

run `npm fund` for details

found 0 vulnerabilities

✔ Install the Genkit CLI globally or locally in this project? Just this project

i genkit: Installing Genkit CLI version 1.16.1

npm WARN EBADENGINE Unsupported engine {

npm WARN EBADENGINE package: undefined,

npm WARN EBADENGINE required: { node: '22' },

npm WARN EBADENGINE current: { node: 'v20.12.1', npm: '10.5.0' }

npm WARN EBADENGINE }

added 177 packages, and audited 870 packages in 16s

186 packages are looking for funding

run `npm fund` for details

found 0 vulnerabilities

✔ Select a model provider: Google AI

i genkit: Installing NPM packages for genkit

npm WARN EBADENGINE Unsupported engine {

npm WARN EBADENGINE package: undefined,

npm WARN EBADENGINE required: { node: '22' },

npm WARN EBADENGINE current: { node: 'v20.12.1', npm: '10.5.0' }

npm WARN EBADENGINE }

npm WARN deprecated @types/handlebars@4.1.0: This is a stub types definition. handlebars provides its own type definitions, so you do not need this installed.

npm WARN deprecated node-domexception@1.0.0: Use your platform's native DOMException instead

added 88 packages, removed 24 packages, changed 10 packages, and audited 934 packages in 6s

189 packages are looking for funding

run `npm fund` for details

found 0 vulnerabilities

npm WARN EBADENGINE Unsupported engine {

npm WARN EBADENGINE package: undefined,

npm WARN EBADENGINE required: { node: '22' },

npm WARN EBADENGINE current: { node: 'v20.12.1', npm: '10.5.0' }

npm WARN EBADENGINE }

up to date, audited 934 packages in 3s

189 packages are looking for funding

run `npm fund` for details

found 0 vulnerabilities

+ genkit: Successfully installed NPM packages

✔ Would you like to update your tsconfig.json with suggested settings? Set if unset

i genkit: Updating tsconfig.json

+ genkit: Successfully updated tsconfig.json

✔ Would you like to update your package.json with suggested settings? Set if unset

i genkit: Updating package.json

+ genkit: Successfully updated package.json

✔ Would you like to generate a sample flow? Yes

Telemetry data can be used to monitor and gain insights into your AI features. There may be a cost associated with using this feature. See https://firebase.google.com/docs/genkit/observability/telemetry-collection.

✔ Would like you to enable telemetry collection? No

i genkit: Generating sample file

+ genkit: Successfully generated sample file (src/genkit-sample.ts)

Login to Google Cloud using:

gcloud auth application-default login --project movieffaut

Then start the Genkit developer experience by running:

cd functions && npm run genkit:start

=== Functions Setup

Detected existing codebase(s): default

✔ Would you like to initialize a new codebase, or overwrite an existing one? Initialize

Let's create a new codebase for your functions.

A directory corresponding to the codebase will be created in your project

with sample code pre-configured.

See https://firebase.google.com/docs/functions/organize-functions for

more information on organizing your functions using codebases.

Functions can be deployed with firebase deploy.

✔ What should be the name of this codebase? functions

✔ In what sub-directory would you like to initialize your functions for codebase functions? functions

functions.source must be unique but 'functions' was used more than once.

✔ In what sub-directory would you like to initialize your functions for codebase functions? functions

functions.source must be unique but 'functions' was used more than once.

✔ In what sub-directory would you like to initialize your functions for codebase functions? functions

functions.source must be unique but 'functions' was used more than once.

✔ In what sub-directory would you like to initialize your functions for codebase functions? functions

functions.source must be unique but 'functions' was used more than once.

Error: Exceeded max number of attempts to input valid source. Please restart.

PS C:\Users\Juanma\Desktop\TFG\_Leandro\cineapp> firebase init .\functions\

PS C:\Users\Juanma\Desktop\TFG\_Leandro\cineapp> firebase init functions

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You're about to initialize a Firebase project in this directory:

C:\Users\Juanma\Desktop\TFG\_Leandro\cineapp

Before we get started, keep in mind:

\* You are initializing within an existing Firebase project directory

✔ Are you ready to proceed? Yes

=== Project Setup

First, let's associate this project directory with a Firebase project.

You can create multiple project aliases by running firebase use --add,

but for now we'll just set up a default project.

i Using project movieffaut (Movieffaut)

=== Functions Setup

Let's create a new codebase for your functions.

A directory corresponding to the codebase will be created in your project

with sample code pre-configured.

See https://firebase.google.com/docs/functions/organize-functions for

more information on organizing your functions using codebases.

Functions can be deployed with firebase deploy.

✔ What language would you like to use to write Cloud Functions? TypeScript

✔ Do you want to use ESLint to catch probable bugs and enforce style? Yes

✔ File functions/package.json already exists. Overwrite? Yes

+ Wrote functions/package.json

i functions/.eslintrc.js is unchanged

i functions/tsconfig.dev.json is unchanged

✔ File functions/tsconfig.json already exists. Overwrite? Yes

+ Wrote functions/tsconfig.json

i functions/src/index.ts is unchanged

i functions/.gitignore is unchanged

✔ Do you want to install dependencies with npm now? Yes

npm WARN EBADENGINE Unsupported engine {

npm WARN EBADENGINE package: undefined,

npm WARN EBADENGINE required: { node: '22' },

npm WARN EBADENGINE current: { node: 'v20.12.1', npm: '10.5.0' }

npm WARN EBADENGINE }

removed 245 packages, and audited 689 packages in 4s

162 packages are looking for funding

run `npm fund` for details

found 0 vulnerabilities

+ Wrote configuration info to firebase.json

+ Wrote project information to .firebaserc

+ Firebase initialization complete!

PS C:\Users\Juanma\Desktop\TFG\_Leandro\cineapp> firebase deploy

=== Deploying to 'movieffaut'...

i deploying functions

Running command: npm --prefix "$RESOURCE\_DIR" run lint

> lint

> eslint --ext .js,.ts .

=============

WARNING: You are currently running a version of TypeScript which is not officially supported by @typescript-eslint/typescript-estree.

You may find that it works just fine, or you may not.

SUPPORTED TYPESCRIPT VERSIONS: >=3.3.1 <5.2.0

YOUR TYPESCRIPT VERSION: 5.9.2

Please only submit bug reports when using the officially supported version.

=============

C:\Users\Juanma\Desktop\TFG\_Leandro\cineapp\functions\src\genkit-sample.ts

3:24 warning '@genkit-ai/googleai' imported multiple times import/no-duplicates

7:29 warning '@genkit-ai/googleai' imported multiple times import/no-duplicates

9:1 error This line has a length of 102. Maximum allowed is 80 max-len

10:1 error This line has a length of 90. Maximum allowed is 80 max-len

11:1 error This line has a length of 89. Maximum allowed is 80 max-len

13:9 error There should be no space after '{' object-curly-spacing

13:24 warning 'hasClaim' is defined but never used @typescript-eslint/no-unused-vars

13:32 error There should be no space before '}' object-curly-spacing

15:1 error This line has a length of 102. Maximum allowed is 80 max-len

16:1 error This line has a length of 100. Maximum allowed is 80 max-len

18:9 error There should be no space after '{' object-curly-spacing

18:22 error There should be no space before '}' object-curly-spacing

21:1 error This line has a length of 99. Maximum allowed is 80 max-len

38:1 error Expected indentation of 2 spaces but found 4 indent

39:1 error Expected indentation of 2 spaces but found 4 indent

40:1 error Expected indentation of 2 spaces but found 4 indent

41:1 error Expected indentation of 2 spaces but found 4 indent

42:1 error Expected indentation of 0 spaces but found 2 indent

42:23 error There should be no space after '{' object-curly-spacing

42:33 error There should be no space before '}' object-curly-spacing

43:1 error Expected indentation of 2 spaces but found 4 indent

44:1 error Expected indentation of 2 spaces but found 4 indent

46:1 error Expected indentation of 2 spaces but found 4 indent

46:12 error There should be no space after '{' object-curly-spacing

46:29 error There should be no space before '}' object-curly-spacing

47:1 error Expected indentation of 4 spaces but found 6 indent

48:1 error Expected indentation of 4 spaces but found 6 indent

49:1 error Expected indentation of 4 spaces but found 6 indent

50:1 error Expected indentation of 6 spaces but found 8 indent

51:1 error Expected indentation of 4 spaces but found 6 indent

52:1 error Expected indentation of 2 spaces but found 4 indent

54:1 error Expected indentation of 2 spaces but found 4 indent

55:1 error Expected indentation of 4 spaces but found 6 indent

56:1 error Expected indentation of 2 spaces but found 4 indent

58:1 error Expected indentation of 2 spaces but found 4 indent

59:1 error Expected indentation of 2 spaces but found 4 indent

60:1 error Expected indentation of 2 spaces but found 4 indent

61:1 error Expected indentation of 2 spaces but found 4 indent

62:1 error Expected indentation of 2 spaces but found 4 indent

63:1 error Expected indentation of 0 spaces but found 2 indent

67:1 error This line has a length of 87. Maximum allowed is 80 max-len

71:1 error This line has a length of 98. Maximum allowed is 80 max-len

72:1 error This line has a length of 97. Maximum allowed is 80 max-len

C:\Users\Juanma\Desktop\TFG\_Leandro\cineapp\functions\src\index.ts

11:9 warning 'onRequest' is defined but never used @typescript-eslint/no-unused-vars

12:13 warning 'logger' is defined but never used @typescript-eslint/no-unused-vars

27:19 error There should be no space after '{' object-curly-spacing

27:36 error There should be no space before '}' object-curly-spacing

✖ 47 problems (42 errors, 5 warnings)

33 errors and 0 warnings potentially fixable with the `--fix` option.

node:events:496

throw er; // Unhandled 'error' event

^

Error: spawn npm --prefix "%RESOURCE\_DIR%" run lint ENOENT

at notFoundError (C:\Users\Juanma\AppData\Roaming\npm\node\_modules\firebase-tools\node\_modules\cross-spawn\lib\enoent.js:6:26)

at verifyENOENT (C:\Users\Juanma\AppData\Roaming\npm\node\_modules\firebase-tools\node\_modules\cross-spawn\lib\enoent.js:40:16)

at cp.emit (C:\Users\Juanma\AppData\Roaming\npm\node\_modules\firebase-tools\node\_modules\cross-spawn\lib\enoent.js:27:25)

at ChildProcess.\_handle.onexit (node:internal/child\_process:294:12)

Emitted 'error' event on ChildProcess instance at:

at ChildProcess.\_handle.onexit (node:internal/child\_process:294:12) {

code: 'ENOENT',

errno: 'ENOENT',

syscall: 'spawn npm --prefix "%RESOURCE\_DIR%" run lint',

path: 'npm --prefix "%RESOURCE\_DIR%" run lint',

spawnargs: []

}

Node.js v20.12.1

Error: functions predeploy error: Command terminated with non-zero exit code 1

PS C:\Users\Juanma\Desktop\TFG\_Leandro\cineapp> firebase deploy

=== Deploying to 'movieffaut'...

i deploying functions

i functions: preparing codebase default for deployment

i functions: ensuring required API cloudfunctions.googleapis.com is enabled...

i functions: ensuring required API cloudbuild.googleapis.com is enabled...

i artifactregistry: ensuring required API artifactregistry.googleapis.com is enabled...

! functions: missing required API cloudbuild.googleapis.com. Enabling now...

! artifactregistry: missing required API artifactregistry.googleapis.com. Enabling now...

Error: Your project movieffaut must be on the Blaze (pay-as-you-go) plan to complete this command. Required API cloudbuild.googleapis.com can't be enabled until the upgrade is complete. To upgrade, visit the following URL:

https://console.firebase.google.com/project/movieffaut/usage/details

PS C:\Users\Juanma\Desktop\TFG\_Leandro\cineapp> firebase emulators:start --only functions

i emulators: Starting emulators: functions

! functions: The following emulators are not running, calls to these services from the Functions emulator will affect production: apphosting, auth, firestore, database, hosting, pubsub, storage, dataconnect

i ui: downloading ui-v1.15.0.zip...

Progress: ==========================================================================================================================================> (100% of 4MB)

i functions: Watching "C:\Users\Juanma\Desktop\TFG\_Leandro\cineapp\functions" for Cloud Functions...

!! functions: Failed to load function definition from source: FirebaseError: There was an error reading functions\package.json:

functions\lib\index.js does not exist, can't deploy Cloud Functions

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│ ✔ All emulators ready! It is now safe to connect your app. │

│ i View Emulator UI at http://127.0.0.1:4000/ │

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│ Emulator │ Host:Port │ View in Emulator UI │

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│ Functions │ 127.0.0.1:5001 │ http://127.0.0.1:4000/functions │

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Emulator Hub host: 127.0.0.1 port: 4400

Other reserved ports: 4500

i emulators: Received SIGINT (Ctrl-C) for the first time. Starting a clean shutdown.

i emulators: Please wait for a clean shutdown or send the SIGINT (Ctrl-C) signal again to stop right now.

i emulators: Shutting down emulators.

i ui: Stopping Emulator UI

i functions: Stopping Functions Emulator

i eventarc: Stopping Eventarc Emulator

i tasks: Stopping Cloud Tasks Emulator

i hub: Stopping emulator hub

i logging: Stopping Logging Emulator

PS C:\Users\Juanma\Desktop\TFG\_Leandro\cineapp> firebase emulators:start

i emulators: Starting emulators: functions, extensions

! functions: The following emulators are not running, calls to these services from the Functions emulator will affect production: apphosting, auth, firestore, database, hosting, pubsub, storage, dataconnect

i functions: Watching "C:\Users\Juanma\Desktop\TFG\_Leandro\cineapp\functions" for Cloud Functions...

!! functions: Failed to load function definition from source: FirebaseError: There was an error reading functions\package.json:

functions\lib\index.js does not exist, can't deploy Cloud Functions

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│ ✔ All emulators ready! It is now safe to connect your app. │

│ i View Emulator UI at http://127.0.0.1:4000/ │

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│ Emulator │ Host:Port │ View in Emulator UI │

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│ Functions │ 127.0.0.1:5001 │ http://127.0.0.1:4000/functions │

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│ Extensions │ 127.0.0.1:5001 │ http://127.0.0.1:4000/extensions │

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Emulator Hub host: 127.0.0.1 port: 4400

Other reserved ports: 4500

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│ Extension Instance Name │ Extension Ref │ View in Emulator UI │

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Issues? Report them at https://github.com/firebase/firebase-tools/issues and attach the \*-debug.log files.

!! functions: Failed to load function definition from source: FirebaseError: There was an error reading functions\package.json:

functions\lib\index.js does not exist, can't deploy Cloud Functions

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functions\lib\index.js does not exist, can't deploy Cloud Functions

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!! functions: Failed to load function definition from source: FirebaseError: There was an error reading functions\package.json:

functions\lib\index.js does not exist, can't deploy Cloud Functions

! functions: Your requested "node" version "22" doesn't match your global version "20". Using node@20 from host.

Serving at port 8963

+ functions: Loaded functions definitions from source: helloWorld.

+ functions[us-central1-helloWorld]: http function initialized (http://127.0.0.1:5001/movieffaut/us-central1/helloWorld).

i functions: Beginning execution of "us-central1-helloWorld"

i functions: Finished "us-central1-helloWorld" in 5.1816ms