TOOLS FOR PROJECT

Google Chrome

https://www.google.com/chrome/

Nodejs

https://nodejs.org/es/

CMD: npm -v

TypeScript

https://www.typescriptlang.org/

CMD: npm install -g typescript

AngularCLI

https://cli.angular.io/

CMD: npm install -g @angular/cli

- ng new my-dream-app
- cd mojix-movies-app
- ng serve

Postman

https://www.getpostman.com/

Visual Studio Code

https://code.visualstudio.com/

- AB Html Formatter
- Activitus Bar
- Angular Snippets
- Angular Language Service
- ionic Snippets
- Paste JSON as Code
- TypeScript Importer

Ionic y Cordova

https://ionicframework.com/

CMD: npm install -g ionic

CMD: npm install -g cordova

Android Studio

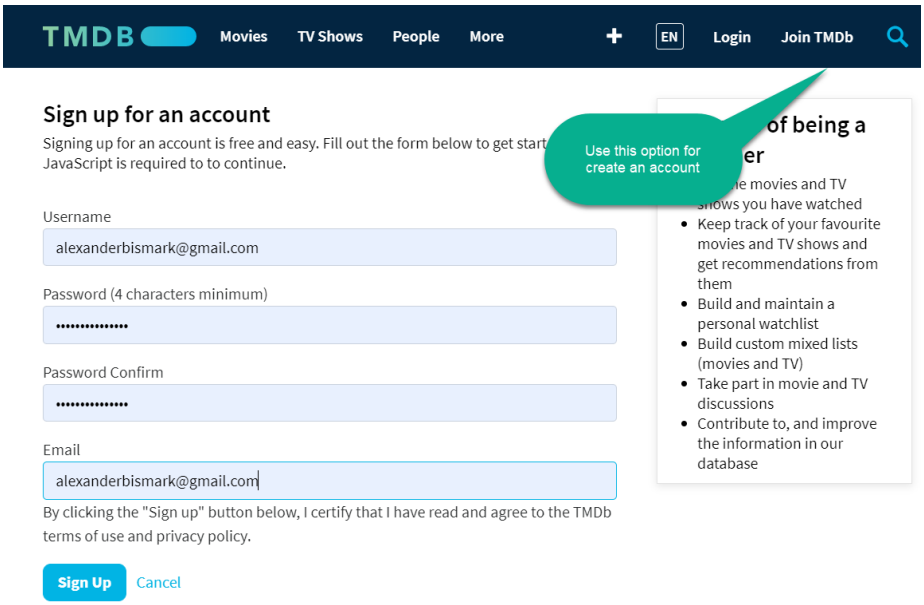
https://developer.android.com/studio/

CROC PROJECT

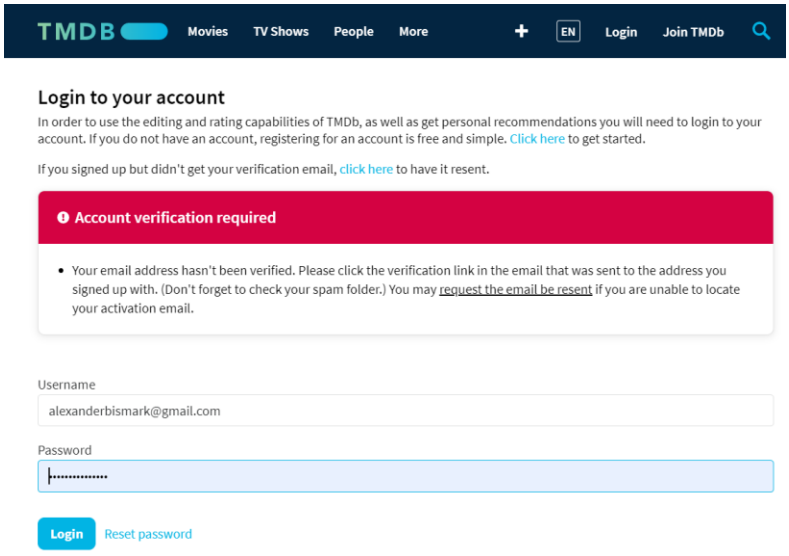
Description:

This Project is a small DEMO for simulate a environment based on https://www.themoviedb.org/, to continue, show the steps that is part of project:

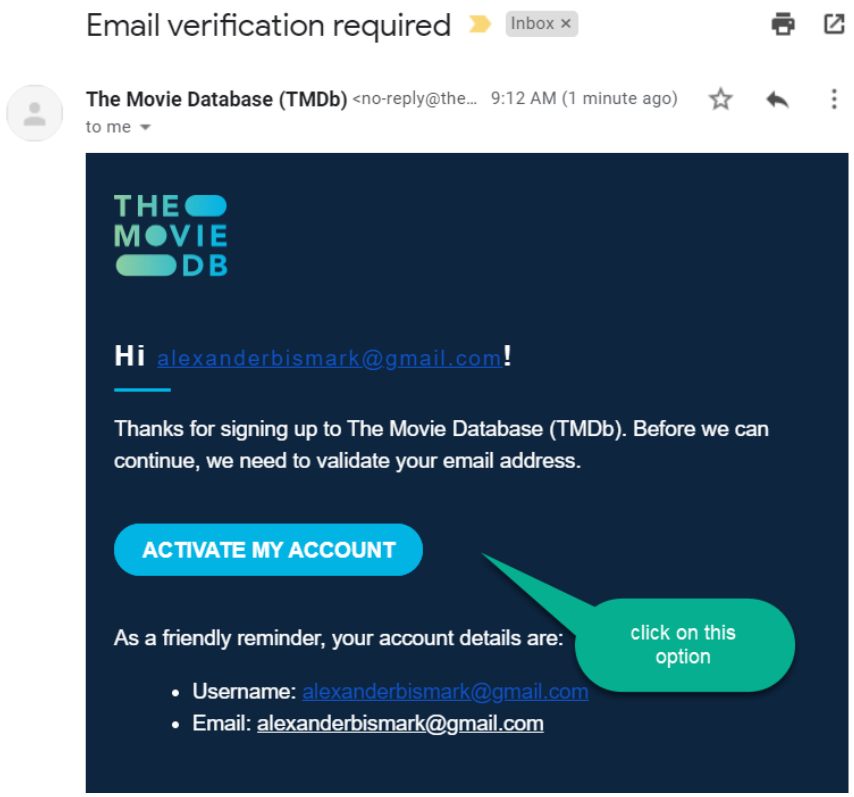
1. Creating a API KEY on https://www.themoviedb.org/



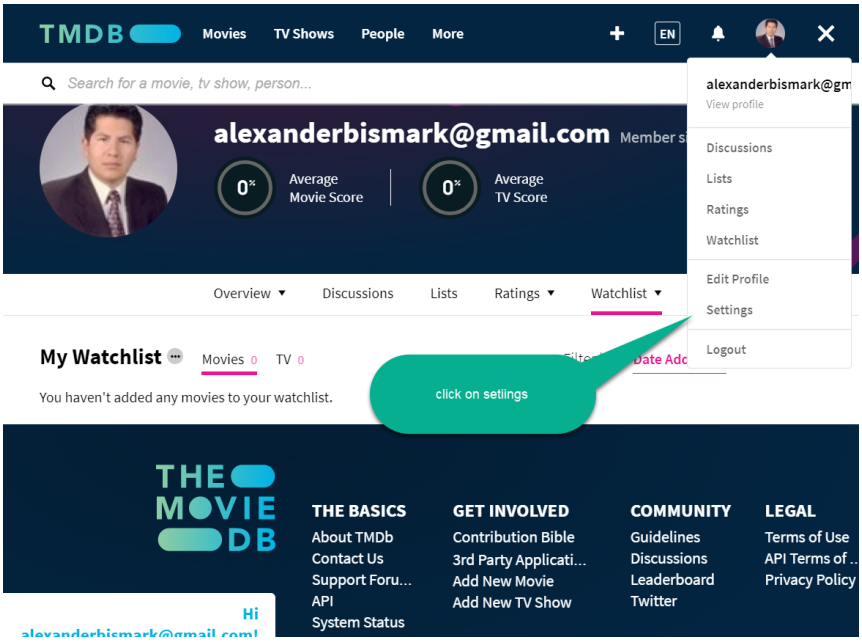
You need verify your account on your email.



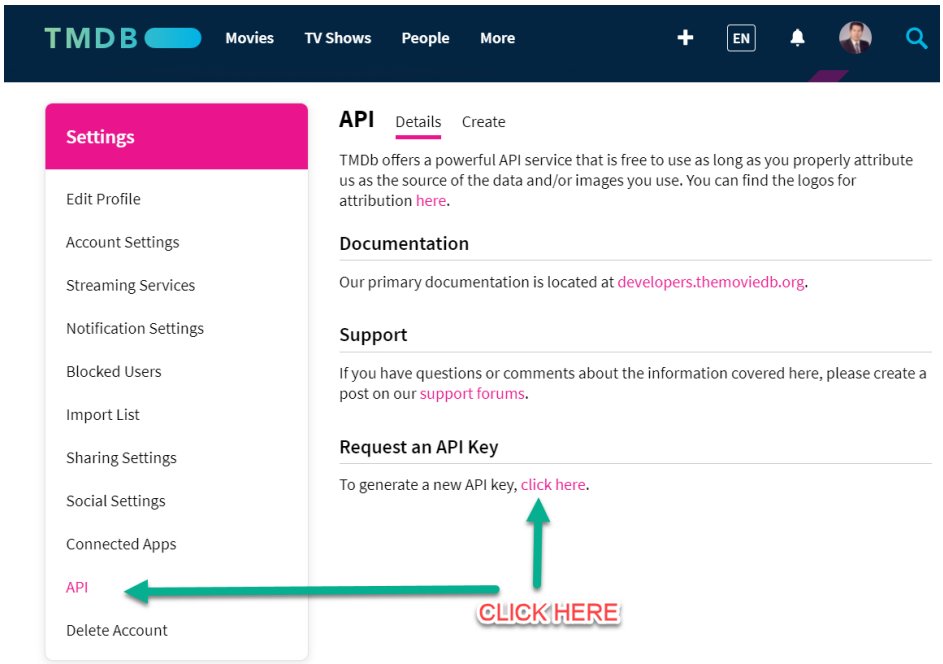
Review your email and activate on email



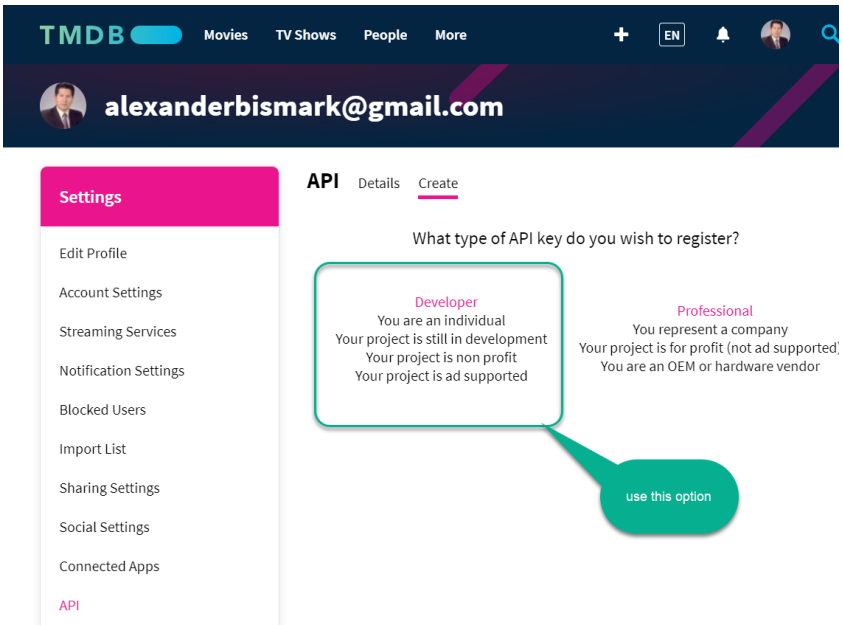
Next



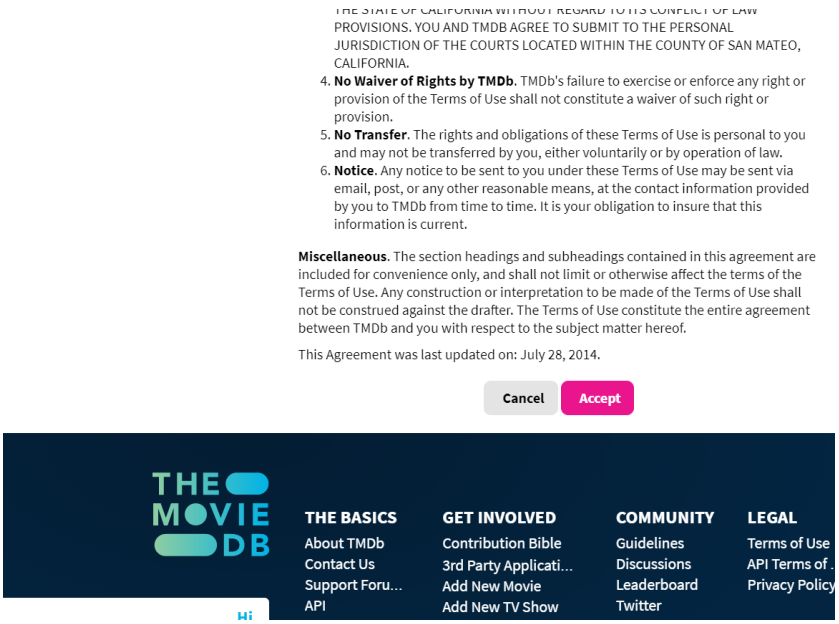
Next

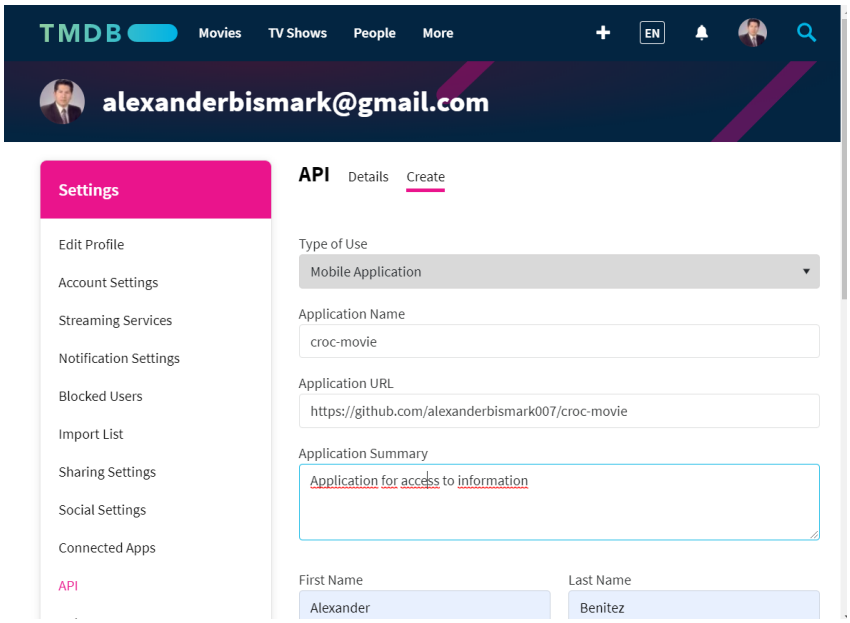

TMDB
Movies
TV Shows
People
More
EN
Settings
Edit Profile
Account Settings
Streaming Services
Notification Settings
Blocked Users
Import List
Sharing Settings
Social Settings
Connected Apps
API
Delete Account
API
Details
Create
TMDb offers a powerful API service that is free to use as long as you properly attribute us as the source of the data and/or images you use. You can find the logos for attribution here.
Documentation
Our primary documentation is located at developers.themoviedb.org.
Support
If you have questions or comments about the information covered here, please create a post on our support forums.
Request an API Key
To generate a new API key, click here.
CLICK HERE

Next

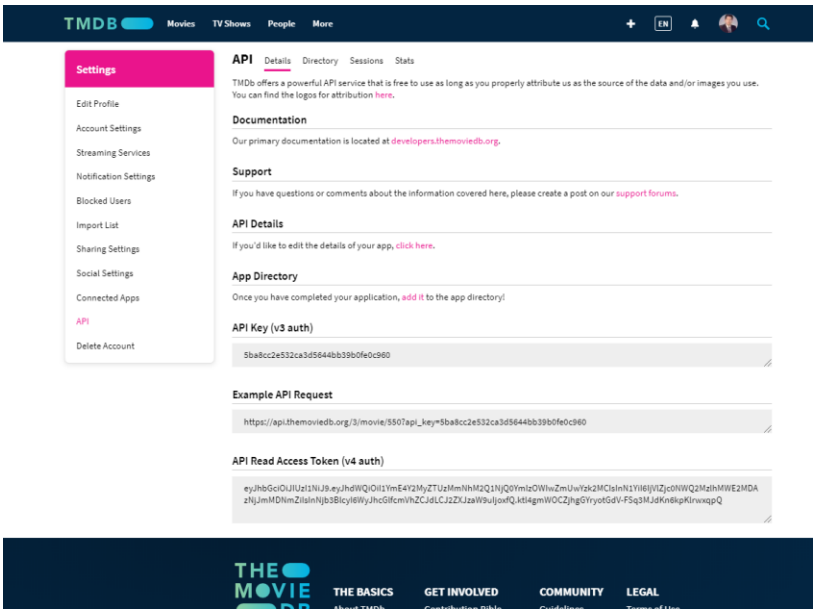

TMDB
Movies
TV Shows
People
More
EN
alexanderbismark@gmail.com
Settings
Edit Profile
Account Settings
Streaming Services
Notification Settings
Blocked Users
Import List
Sharing Settings
Social Settings
Connected Apps
API
API
Details
Create
What type of API key do you wish to register?
Developer
You are an individual
Your project is still in development
Your project is non profit
Your project is ad supported
Professional
You represent a company
Your project is for profit (not ad supported)
You are an OEM or hardware vendor
use this option

Read and accept Use Terms and complete information





Great work, its all



API Key (v3 auth):

5ba8cc2e532ca3d5644bb39b0fe0c960

Example API Request

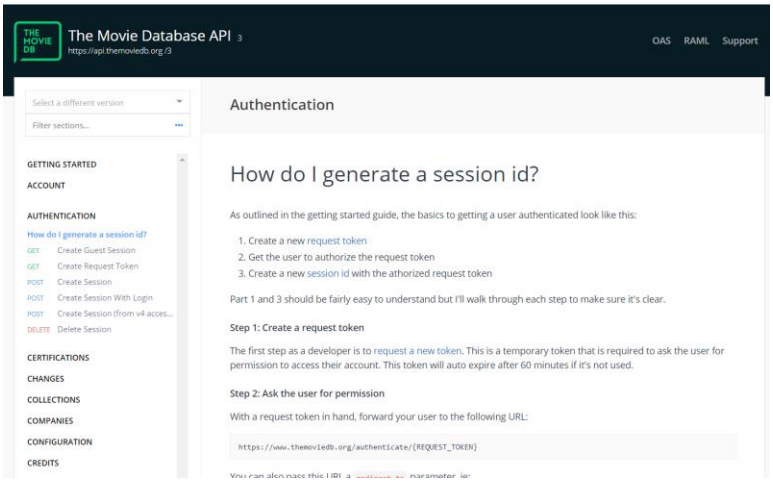
https://api.themoviedb.org/3/movie/550?api_key=5ba8cc2e532ca3d5644bb39b0fe0c960

API Read Access Token (v4 auth)

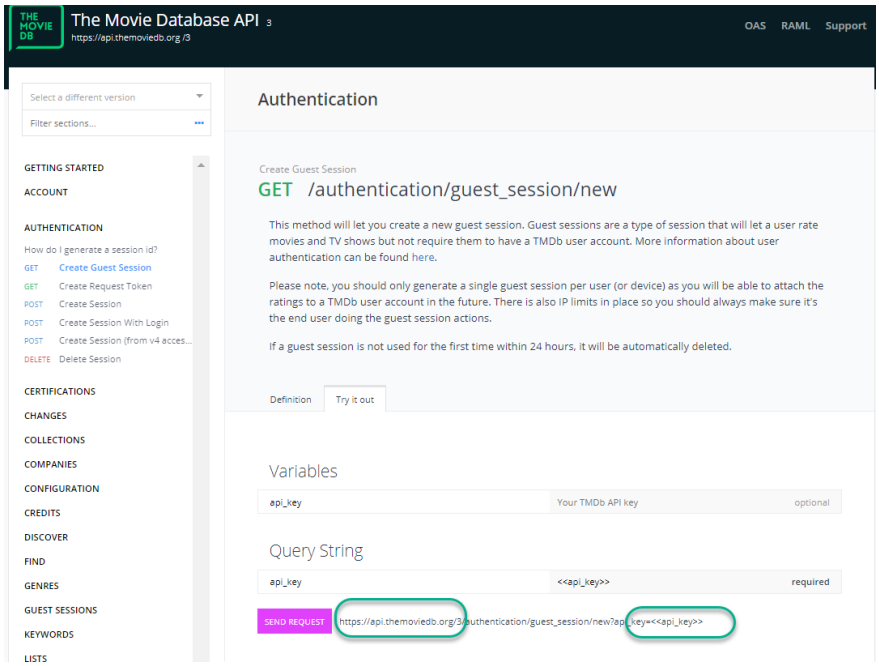
eyJhbGciOiJIUzI1NiJ9.eyJhdWQiOiI1YmE4Y2MyZTUzMmNhM2Q1NjQ0YmIzOWIwZmUwYzk2MCIsInN1YiI6IjVlZjc0NWQ2MzlhMWE2MDAzNjJmMDNmZiIsInNjb3BlcyI6WyJhcGlfcmVhZCJdLCJ2ZXJzaW9uIjoxfQ.ktl4gmWOCZjhgGYryotGdV-FSq3MJdKn6kpKlrwxqpQ

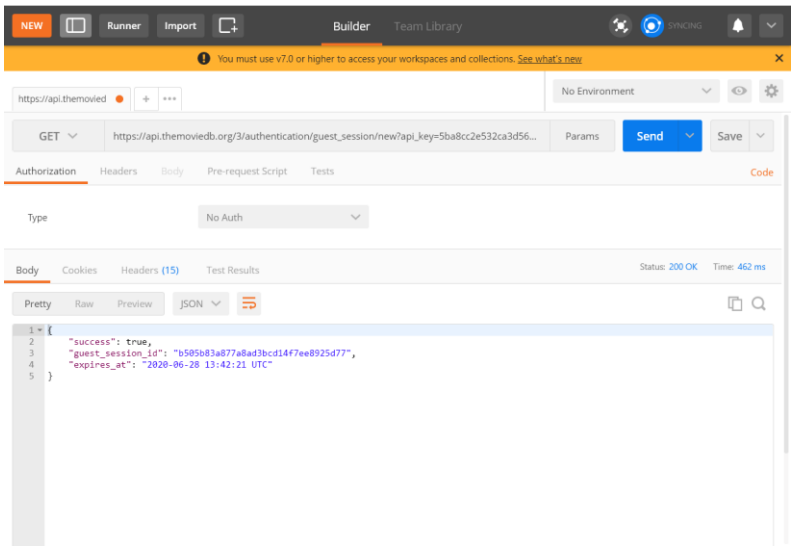
Access to DEVELOPER Environment

https://developers.themoviedb.org/3/getting-started/introduction



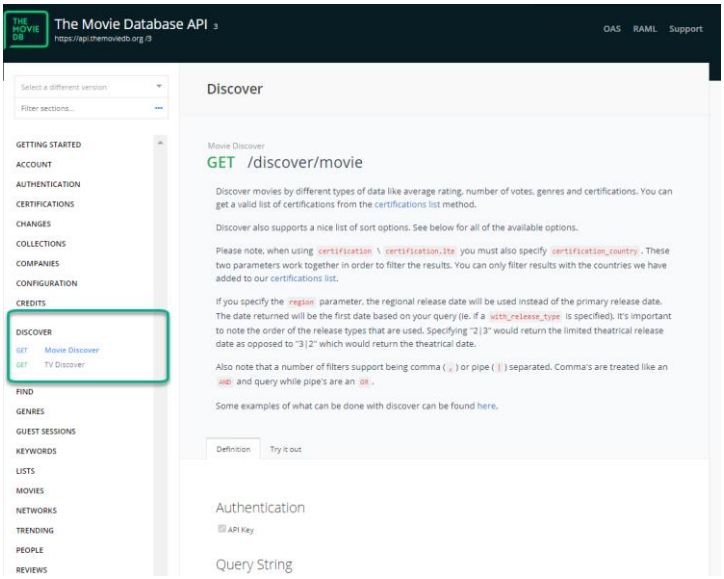
Verifying API Key and Uri via Postman





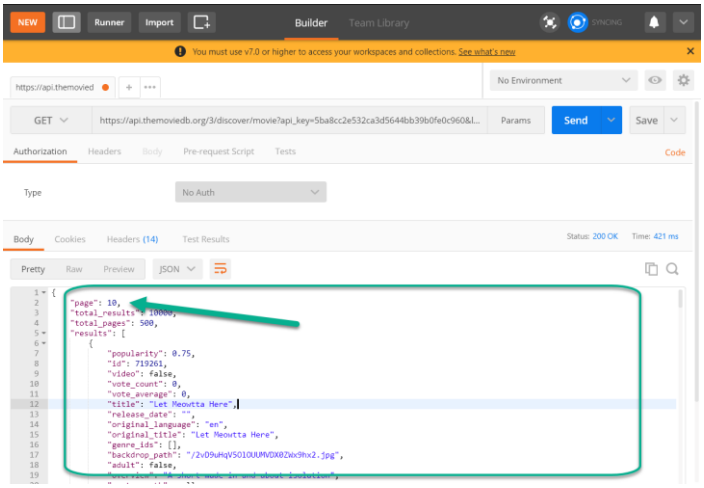
Get the last 10 popular movies

See API description for send parameters



Example

- **LIST**
  https://api.themoviedb.org/3/discover/movie?api_key=5ba8cc2e532ca3d5644bb39b0fe0c960&language=en-US&sort_by=popularity.desc&include_adult=false&include_video=false&page=10
- **IMAGE**
  https://image.tmdb.org/t/p/w300/hjQp148VjWF4KjzhsD90OCMr11h.jpg
- **DETAILS**
  https://api.themoviedb.org/3/movie/545609?api_key=5ba8cc2e532ca3d5644bb39b0fe0c960&language=en-US
- **CREDITS**
  https://api.themoviedb.org/3/movie/545609/credits?api_key=5ba8cc2e532ca3d5644bb39b0fe0c960

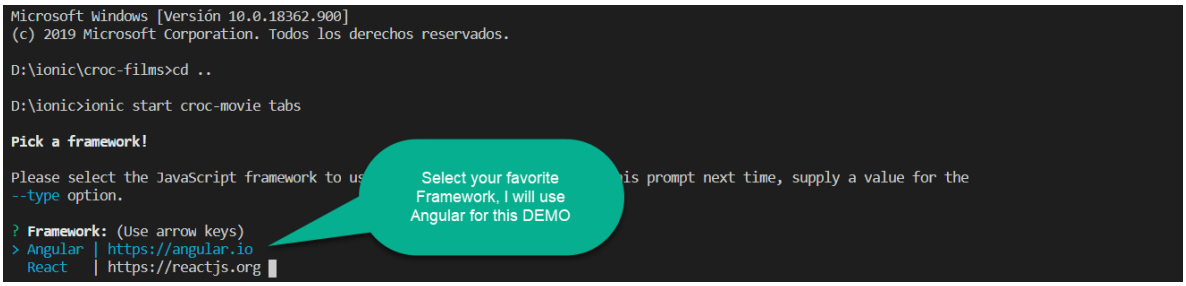


IMPORTANT: This API allows to obtain the information in English and Spanish;

CREATING APP ON IONIC

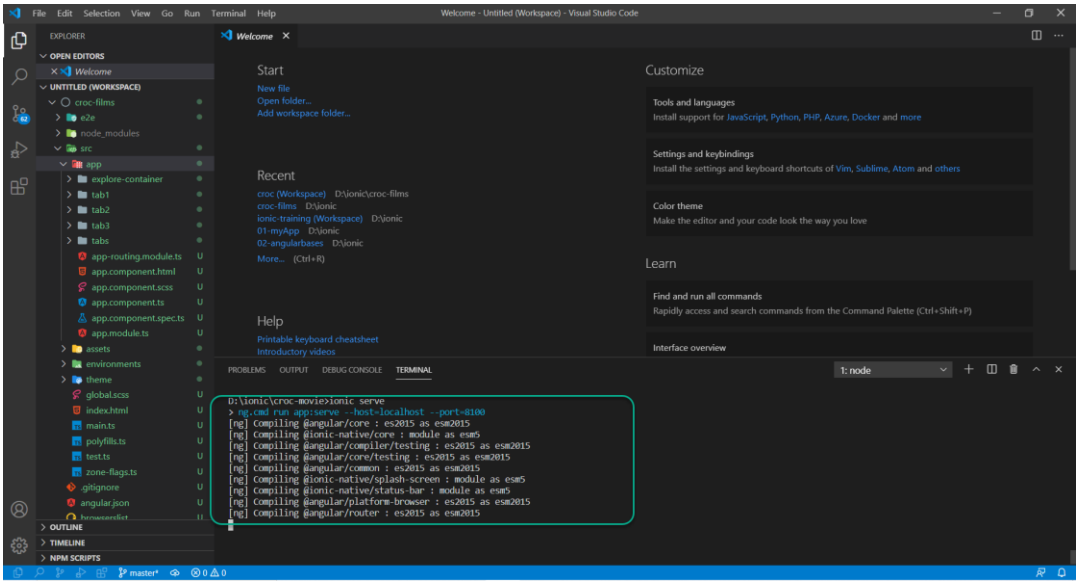
For conventional use I prefers write CMD: when I use a Console independent if this Linux or Windows, Then I write the command. (on Linux use sudo previous any command)

CMD: ionic start croc-movie tabs

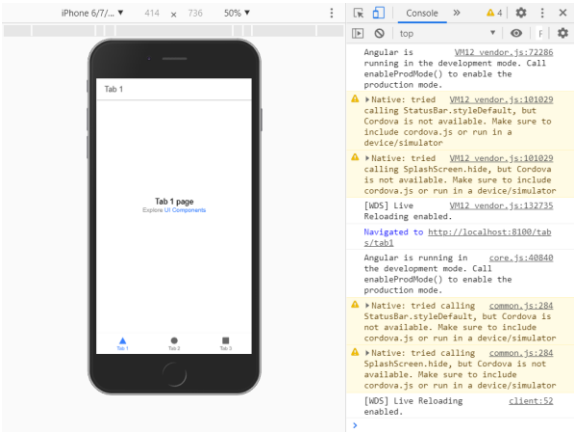


STARTING PROJECT (For my comfort, I enable auto save fie on menu File 😊)

CMD: ionic serve



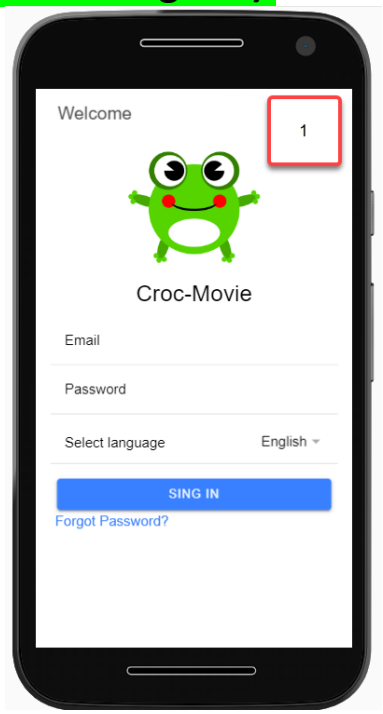
ENVIRONMENT ON CHROME (press F12 to get details and developer tools)



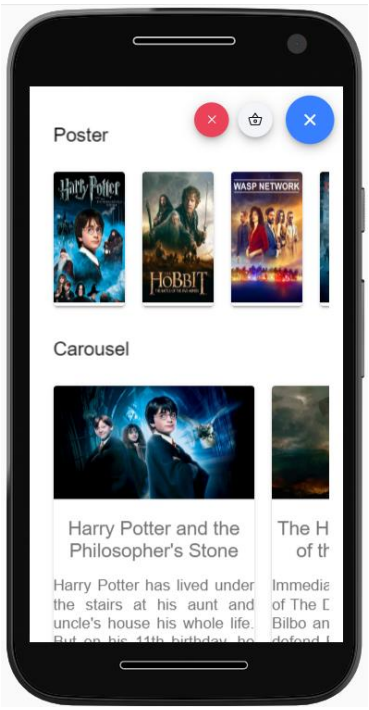
DETALIS OF VERSIONS (package.json)


```
{
  "name": "croc-films",
  "version": "0.0.1",
  "author": "Alexander Benitez Antelo",
  "homepage": " https://github.com/alexanderbismark007/croc-movie",
  "scripts": {
    "ng": "ng",
    "start": "ng serve",
    "build": "ng build",
    "test": "ng test",
    "lint": "ng lint",
    "e2e": "ng e2e"
  },
  "private": true,
  "dependencies": {
    "@angular/common": "~9.1.6",
    "@angular/core": "~9.1.6",
    "@angular/forms": "~9.1.6",
    "@angular/platform-browser": "~9.1.6",
    "@angular/platform-browser-dynamic": "~9.1.6",
    "@angular/router": "~9.1.6",
    "@ionic-native/core": "^5.0.7",
    "@ionic-native/splash-screen": "^5.0.0",
    "@ionic-native/status-bar": "^5.0.0",
    "@ionic/angular": "^5.0.0",
    "rxjs": "~6.5.1",
    "tslib": "^1.10.0",
    "zone.js": "~0.10.2"
  },
  "devDependencies": {
    "@angular-devkit/build-angular": "~0.901.5",
    "@angular/cli": "~9.1.5",
    "@angular/compiler": "~9.1.6",
    "@angular/compiler-cli": "~9.1.6",
    "@angular/language-service": "~9.1.6",
    "@ionic/angular-toolkit": "^2.1.1",
    "@types/node": "^12.11.1",
    "@types/jasmine": "~3.5.0",
    "@types/jasminewd2": "~2.0.3",
    "codelyzer": "^5.1.2",
    "jasmine-core": "~3.5.0",
    "jasmine-spec-reporter": "~4.2.1",
    "karma": "~5.0.0",
    "karma-chrome-launcher": "~3.1.0",
    "karma-coverage-istanbul-reporter": "~2.1.0",
    "karma-jasmine": "~3.0.1",
    "karma-jasmine-html-reporter": "^1.4.2",
    "protractor": "~5.4.3",
    "ts-node": "~8.3.0",
    "tslint": "~6.1.0",
    "typescript": "~3.8.3"
  },
  "description": "CROC-MOVIE"
}
```

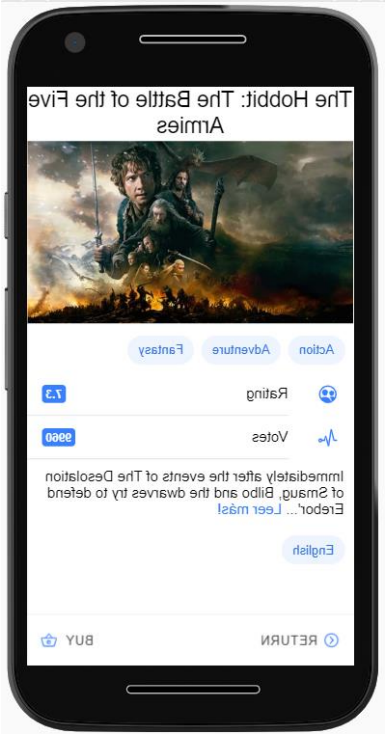
1- At least 2 pages: Master and Detail. (If you can add a mock login page will be great).



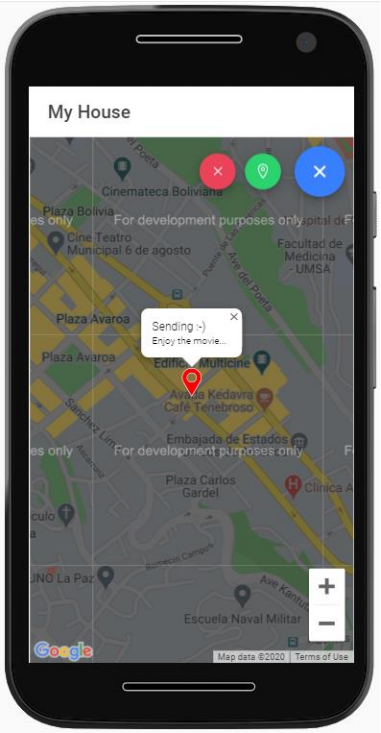
LOGIN



MASTER

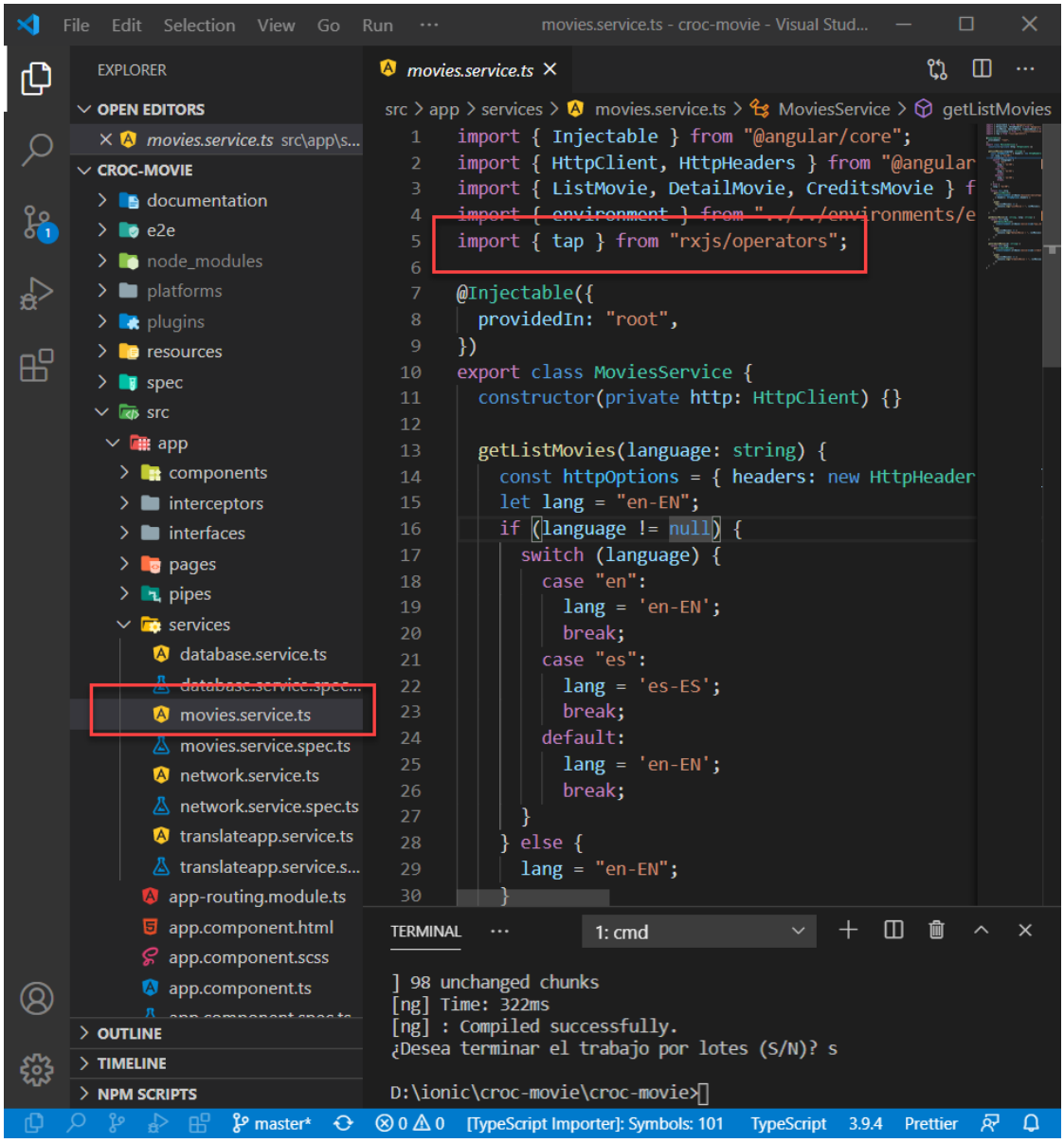


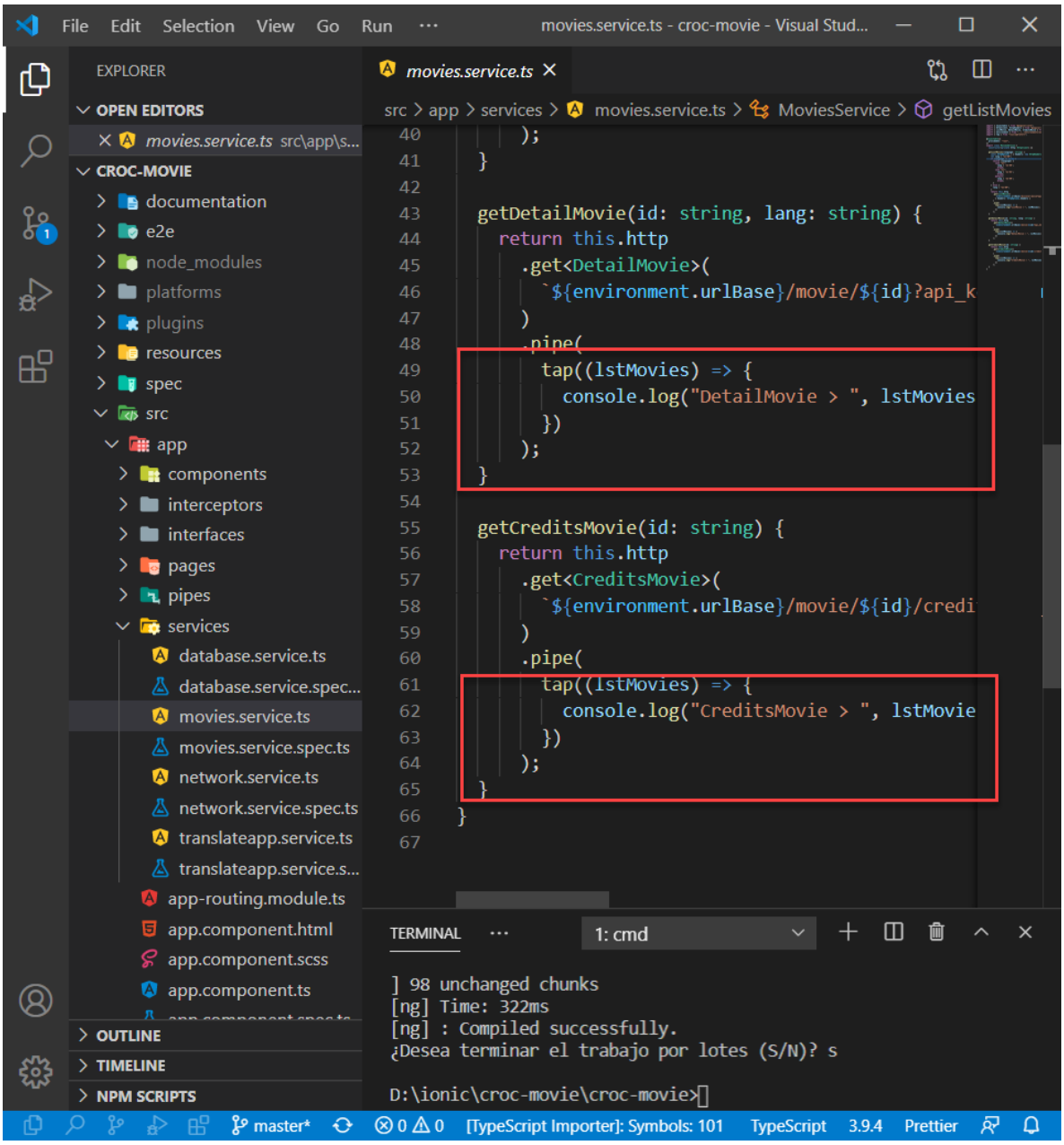
DETAIL



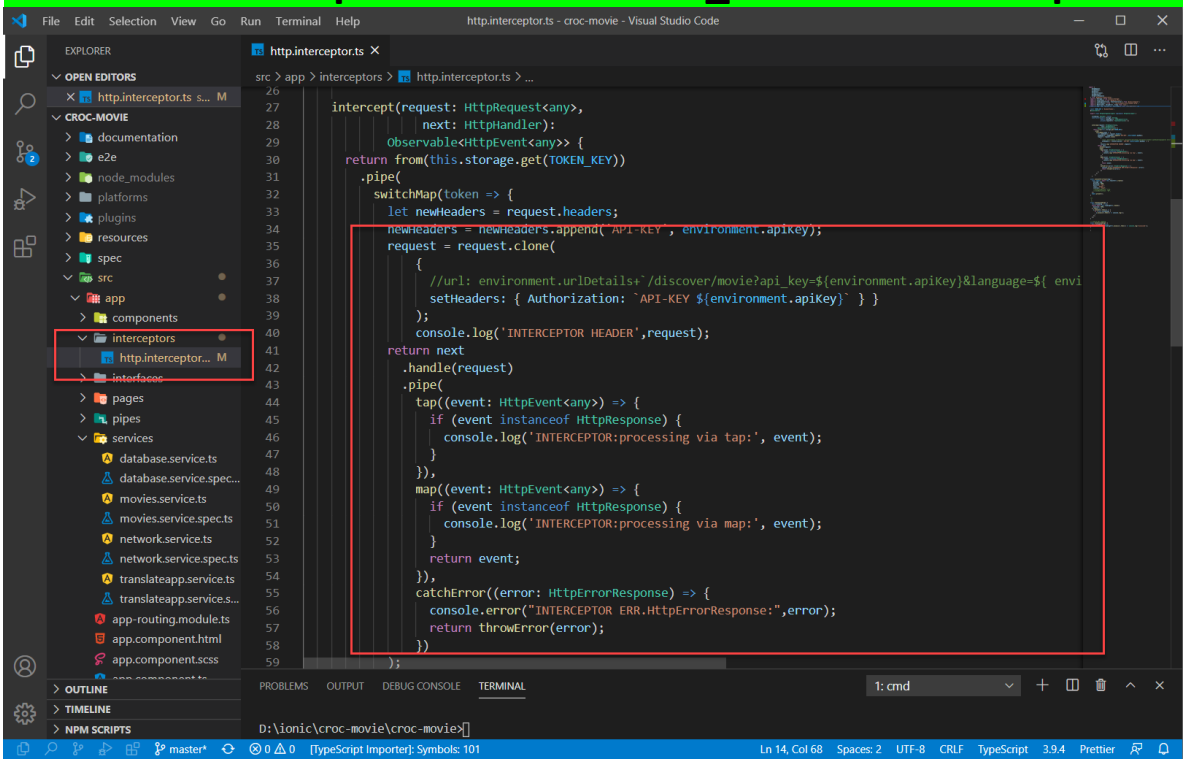
MAPS

2- Use RxJx to handle all the information from endpoints.

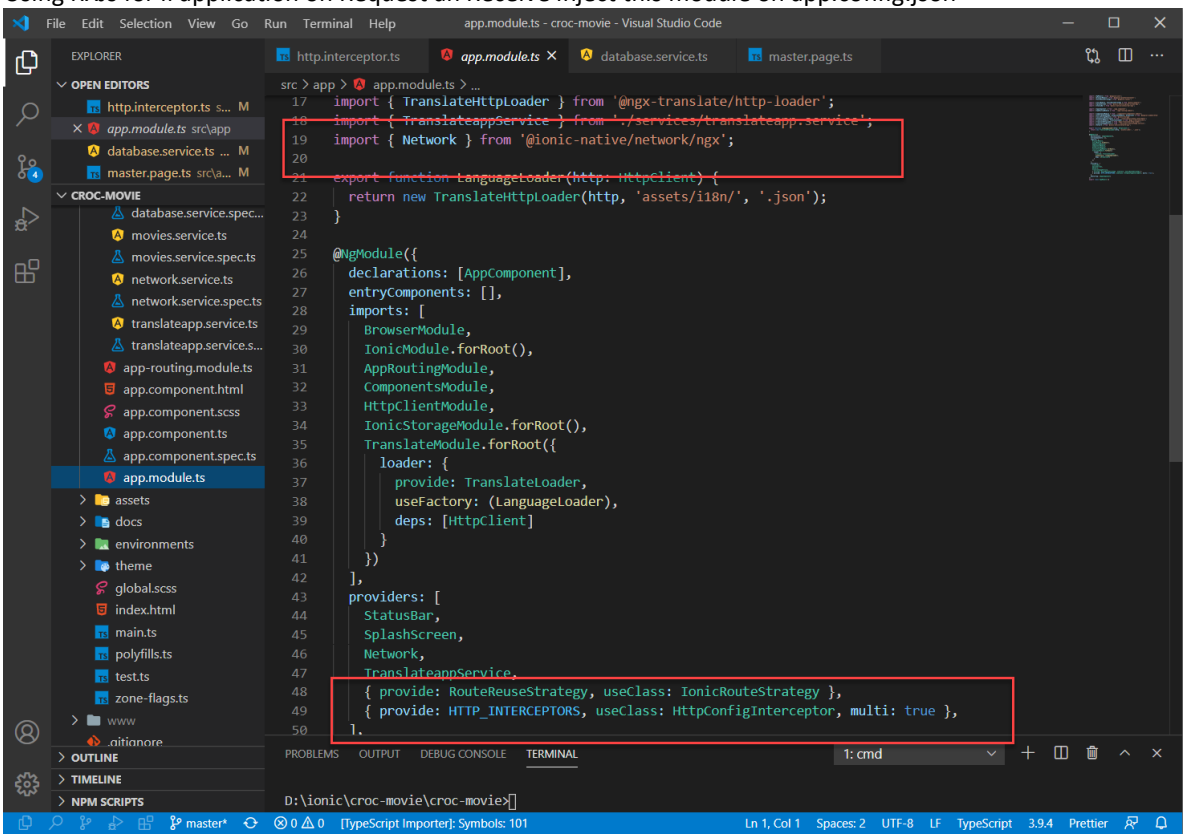


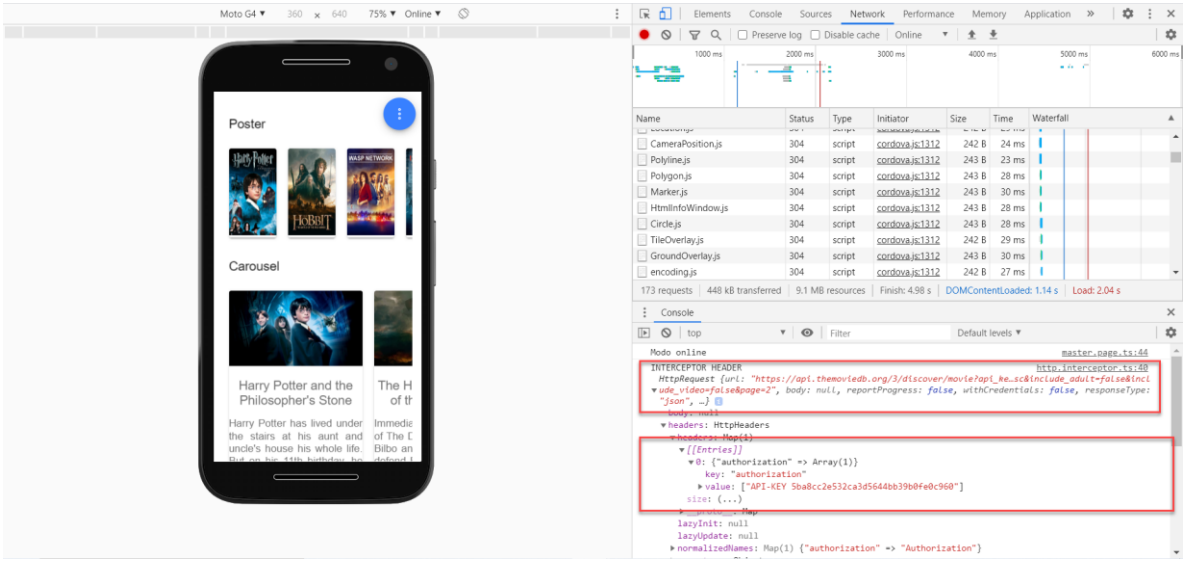

File Edit Selection View Go Run ···
movies.service.ts - croc-movie - Visual Stud...
EXPLORER
OPEN EDITORS
movies.service.ts src\app\s...
CROC-MOVIE
documentation
e2e
node_modules
platforms
plugins
resources
spec
src
app
components
interceptors
interfaces
pages
pipes
services
database.service.ts
database.service.spec...
movies.service.ts
movies.service.spec.ts
network.service.ts
network.service.spec.ts
translateapp.service.ts
translateapp.service.s...
app-routing.module.ts
app.component.html
app.component.scss
app.component.ts
OUTLINE
TIMELINE
NPM SCRIPTS
movies.service.ts
src > app > services > movies.service.ts > MoviesService > getListMovies
40);
41 }
42
43 getDetailMovie(id: string, lang: string) {
44 return this.http
45 .get<DetailMovie>(
46 `${environment.urlBase}/movie/${id}?api_k
47)
48 .pipe(
49 tap((lstMovies) => {
50 console.log("DetailMovie > ", lstMovies
51 })
52);
53 }
54
55 getCreditsMovie(id: string) {
56 return this.http
57 .get<CreditsMovie>(
58 `${environment.urlBase}/movie/${id}/credi
59)
60 .pipe(
61 tap((lstMovies) => {
62 console.log("CreditsMovie > ", lstMovie
63 })
64);
65 }
66 }
67
TERMINAL
1: cmd
] 98 unchanged chunks
[ng] Time: 322ms
[ng] : Compiled successfully.
¿Desea terminar el trabajo por lotes (S/N)? s
D:\ionic\croc-movie\croc-movie>
master*
0 0
[TypeScript Importer]: Symbols: 101
TypeScript 3.9.4
Prettier

3- Use an interceptor to add the API_KEY to all the requests.



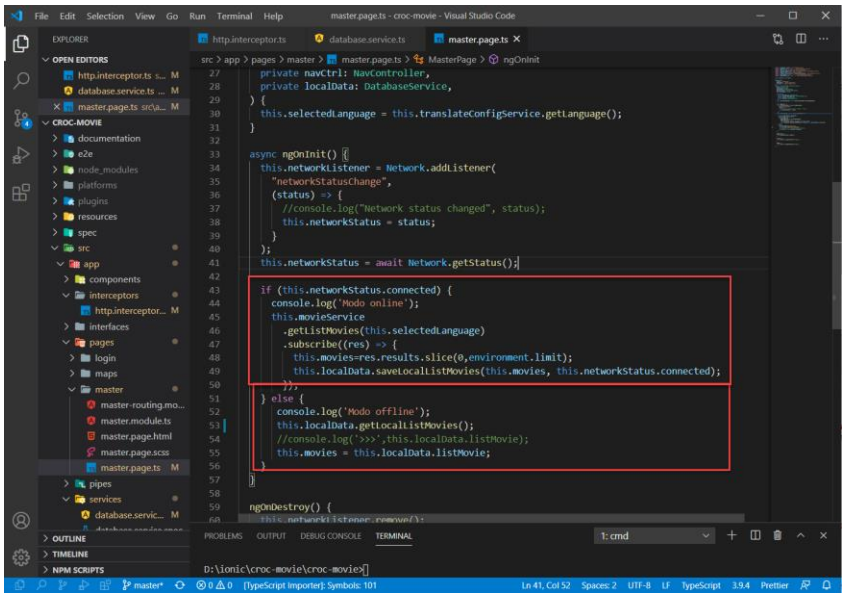
Using RXJs for ll application on Request an Receive inject this module on app.config.json



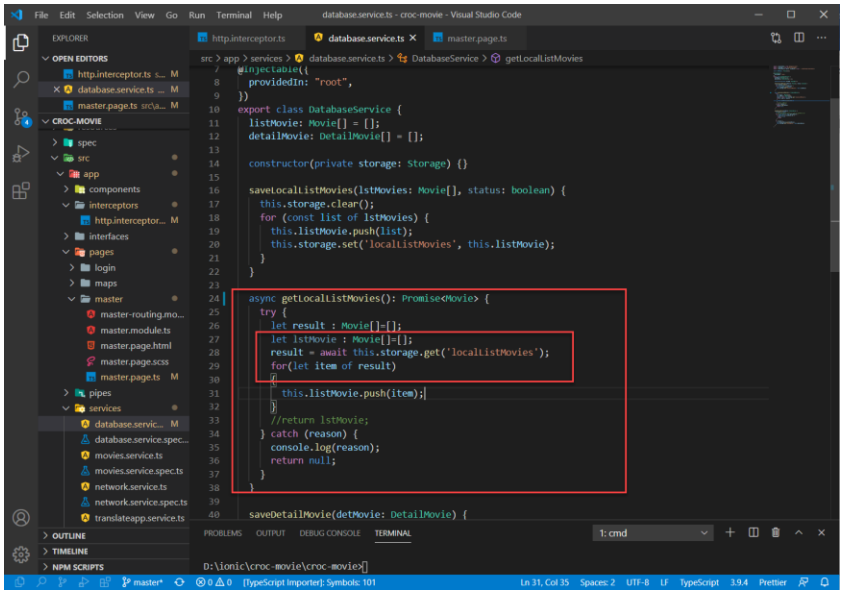


Show Headers and request on Debug mode

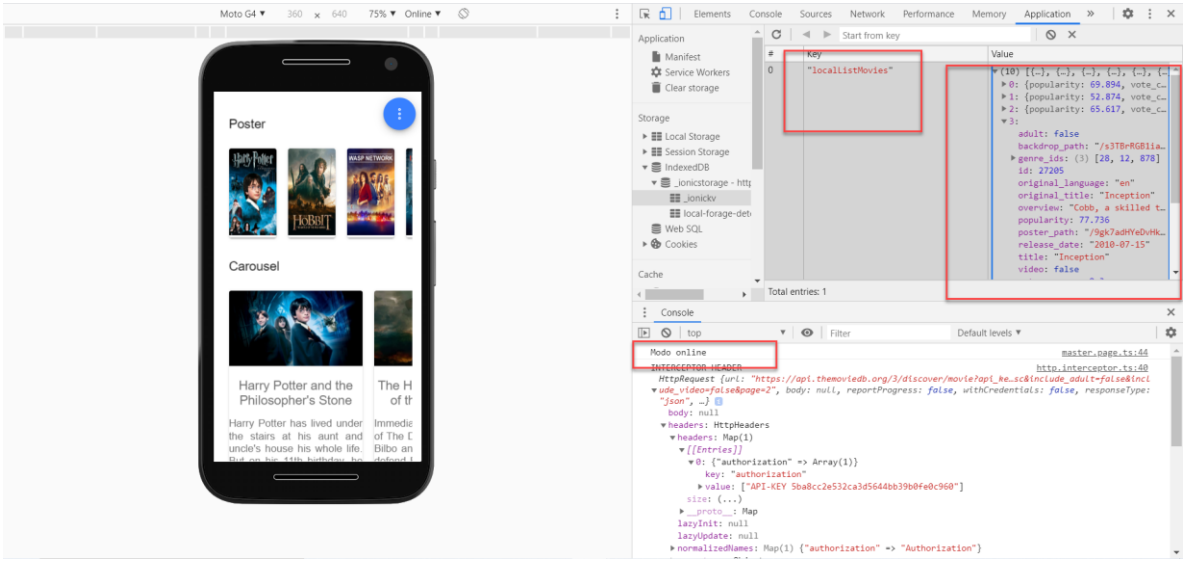
4- Save the results from the API call in localStorage/database in order to show the info immediately if the app doesn't have internet access.



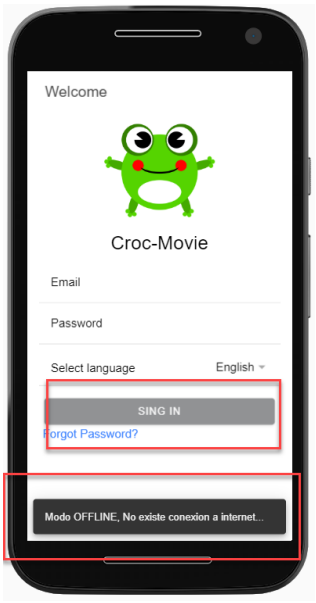
I have created modules that detect if have connection to internet, after when it's online, save data in other cases load local data.



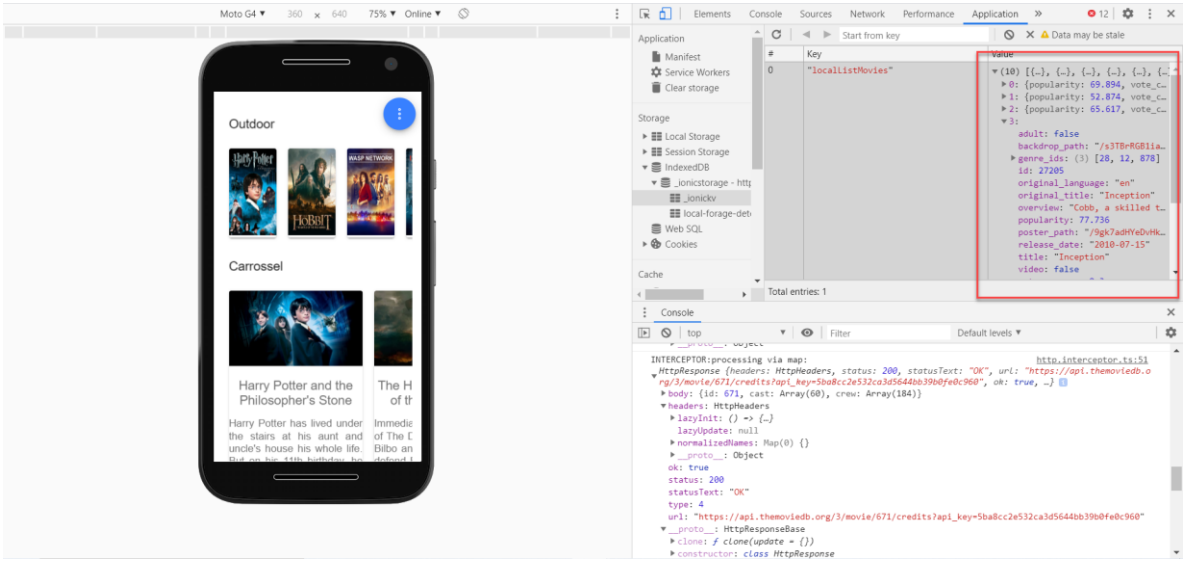
I have created a service that manage all request for local state



When APP is online, save all Data, the imagen shows this purpose.

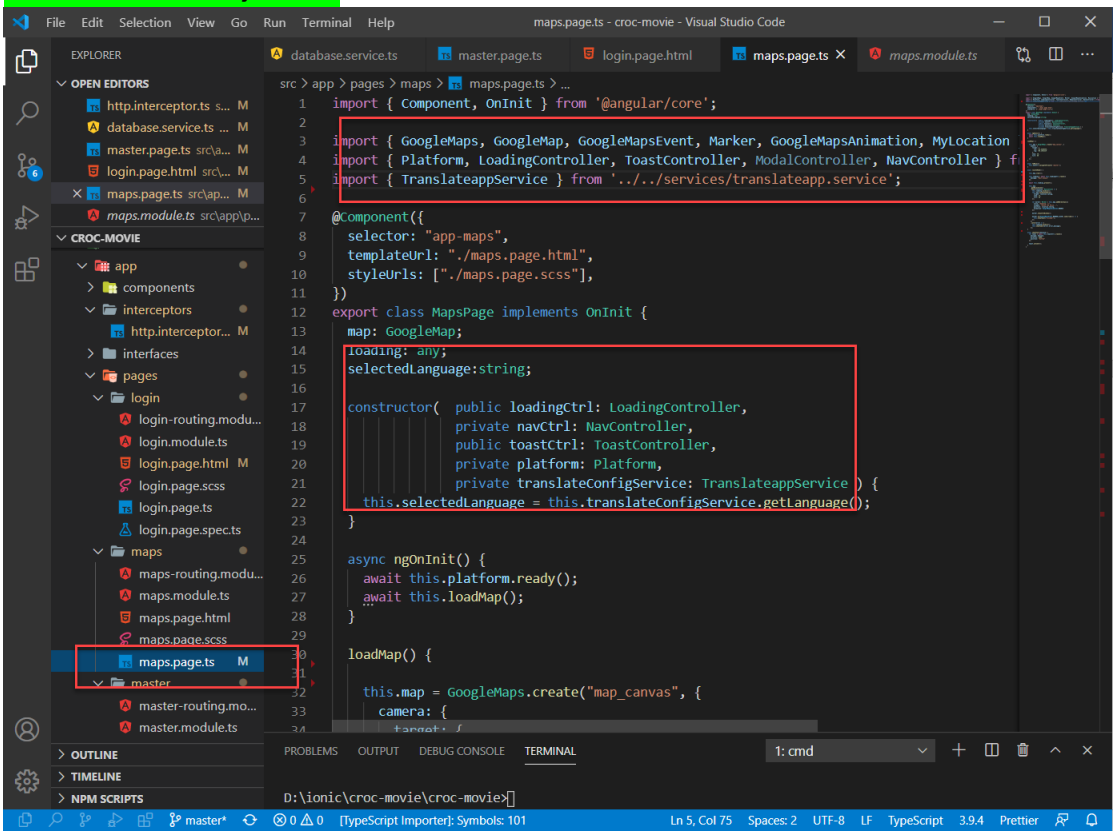


When connection is OFFLINE shows a message and change colors of APP



Access to OFFLINE mode and get Local Data

5- Use at least one External Library or Cordova Plugin. Ej. GPS, Internet connection viewer, get UUID from device, Permissions, etc.



I have created a Page that use Compoments with libraries

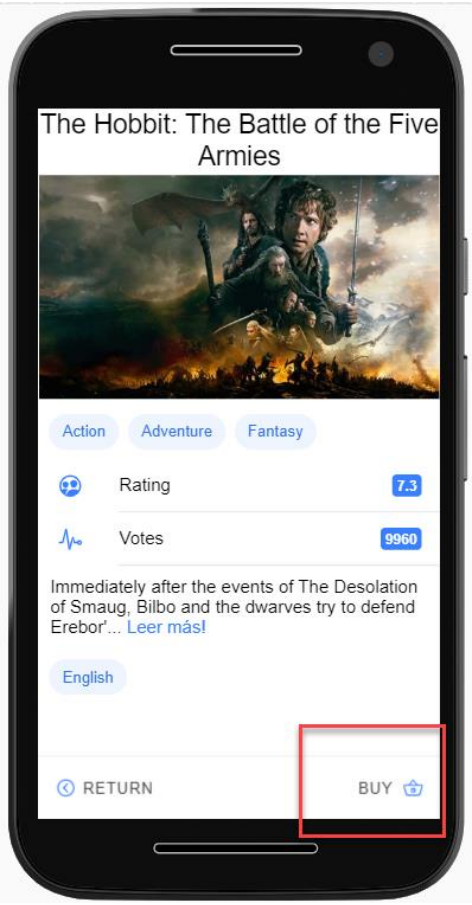
- npm install @ionic-native/core@beta @ionic-native/google-maps@beta
- ionic cordova plugin add https://github.com/mapsplugin/cordova-plugin-googlemaps#multiple_maps

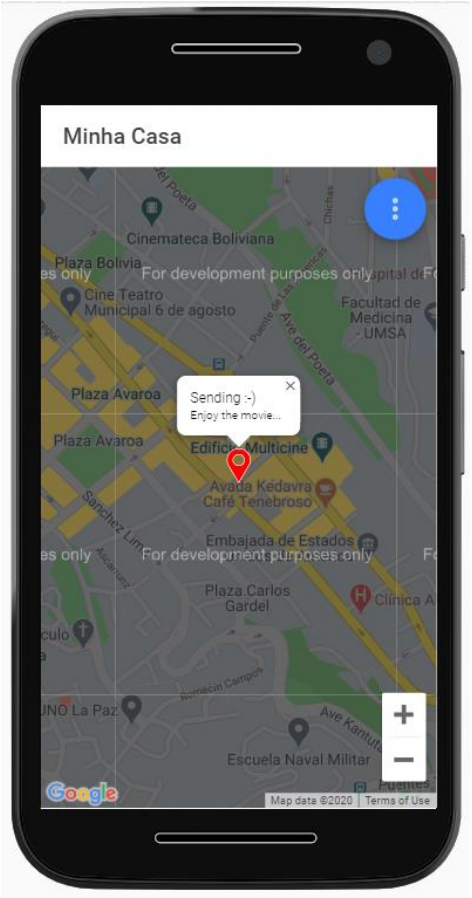
  ADD this line on config.XML with API KEY of DEVELOPER GOOGLE
  <preference name="GOOGLE_MAPS_ANDROID_API_KEY" value="NUESTRO_API_KEY" />

Execute this command (*ionic serve* not is compatible for this option)

- ionic cordova run browser

For this context, the option to purchase a movie is simulated, this causes the map window to be displayed to detect your location.

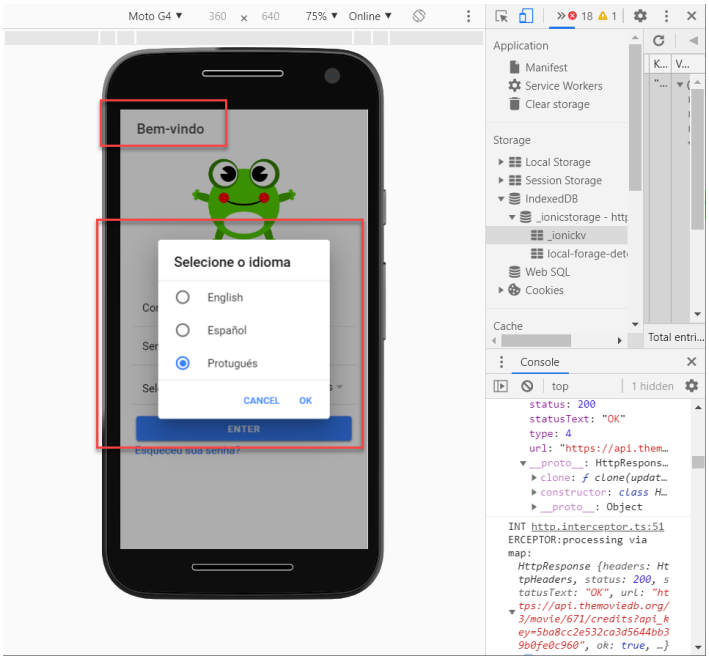




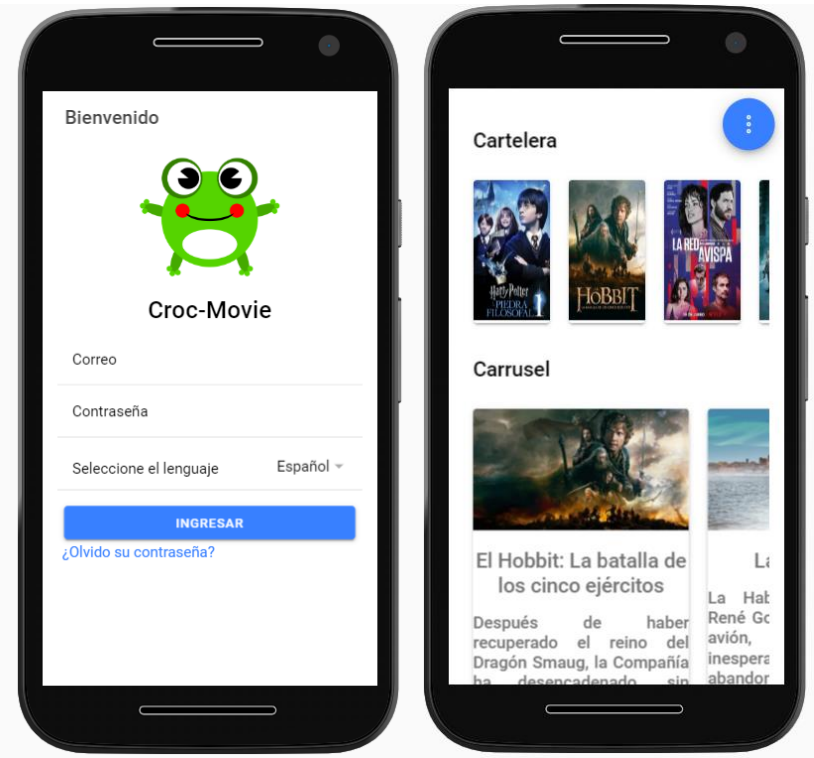
6- Multi-language support: English/Spanish.

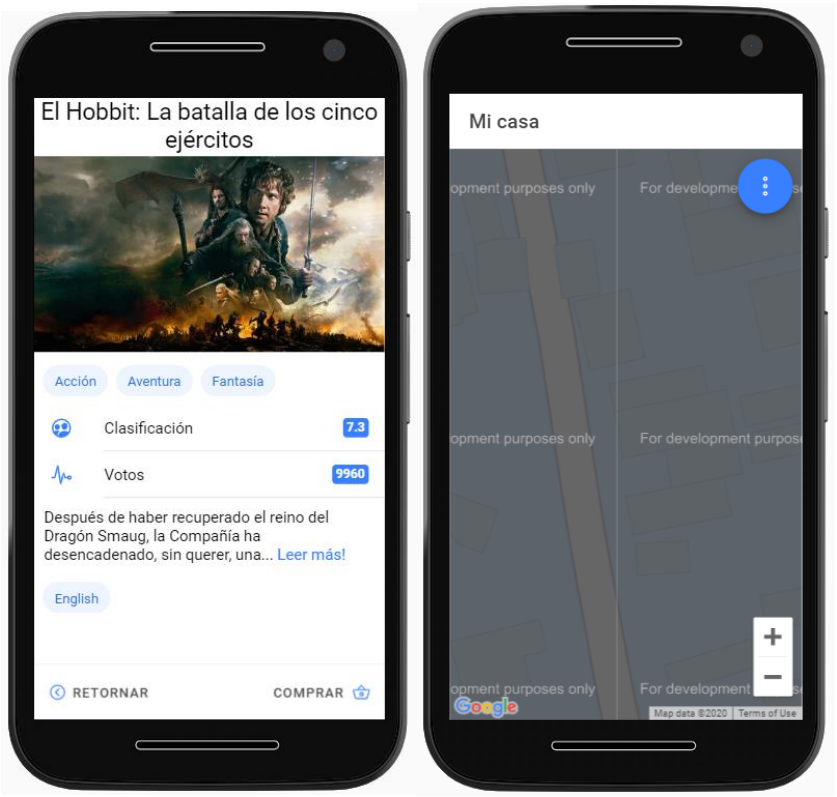
Install

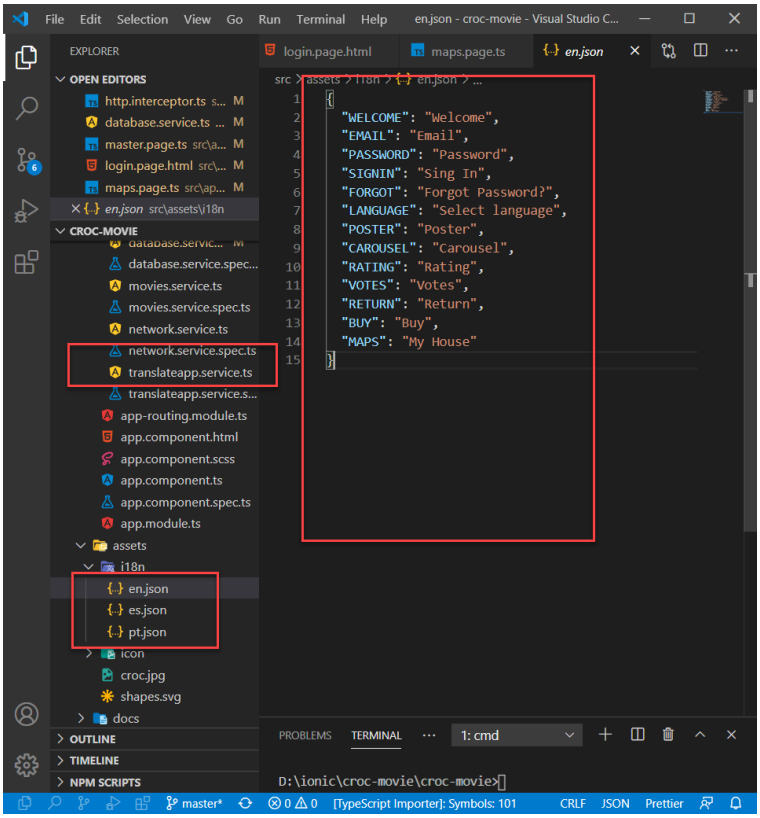
- npm install --save @ngx-translate/core

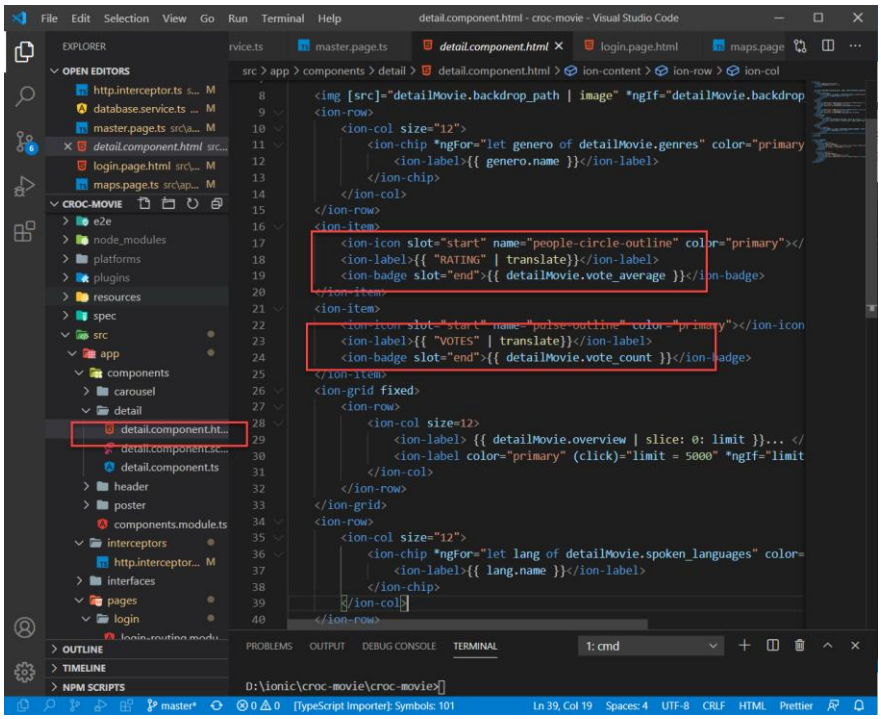


The APP have a multiple Language Tranlate for all Pages.




El Hobbit: La batalla de los cinco ejércitos
Acción
Aventura
Fantasía
Clasificación
7.3
Votos
9960
Después de haber recuperado el reino del Dragón Smaug, la Compañía ha desencadenado, sin querer, una... Leer más!
English
RETORNAR
COMPRAR
Mi casa
opment purposes only
For development purposes only
Google
Map data ©2020
Terms of Use

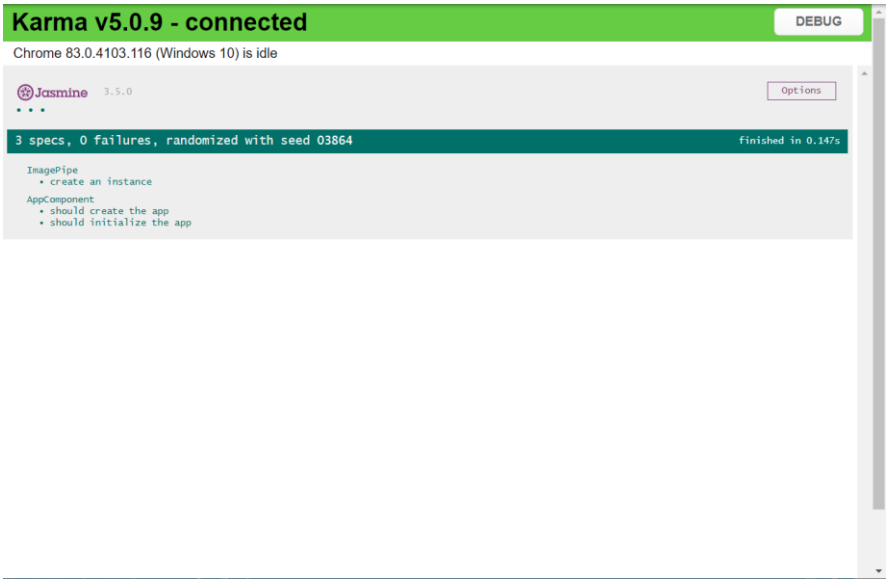

File Edit Selection View Go Run Terminal Help
en.json - croc-movie - Visual Studio C...
EXPLORER
OPEN EDITORS
login.page.html
maps.page.ts
en.json
CROC-MOVIE
database.service.spec...
movies.service.ts
movies.service.spec.ts
network.service.ts
network.service.spec.ts
translateapp.service.ts
app-routing.module.ts
app.component.html
app.component.scss
app.component.ts
app.component.spec.ts
app.module.ts
assets
i18n
en.json
es.json
pt.json
icon
croc.jpg
shapes.svg
docs
OUTLINE
TIMELINE
NPM SCRIPTS
{
"WELCOME": "Welcome",
"EMAIL": "Email",
"PASSWORD": "Password",
"SIGNIN": "Sing In",
"FORGOT": "Forgot Password?",
"LANGUAGE": "Select language",
"POSTER": "Poster",
"CAROUSEL": "Carousel",
"RATING": "Rating",
"VOTES": "Votes",
"RETURN": "Return",
"BUY": "Buy",
"MAPS": "My House"
}
PROBLEMS
TERMINAL
1: cmd
D:\ionic\croc-movie\croc-movie>
master*
[TypeScript Importer]: Symbols: 101
CRLF
JSON
Prettier

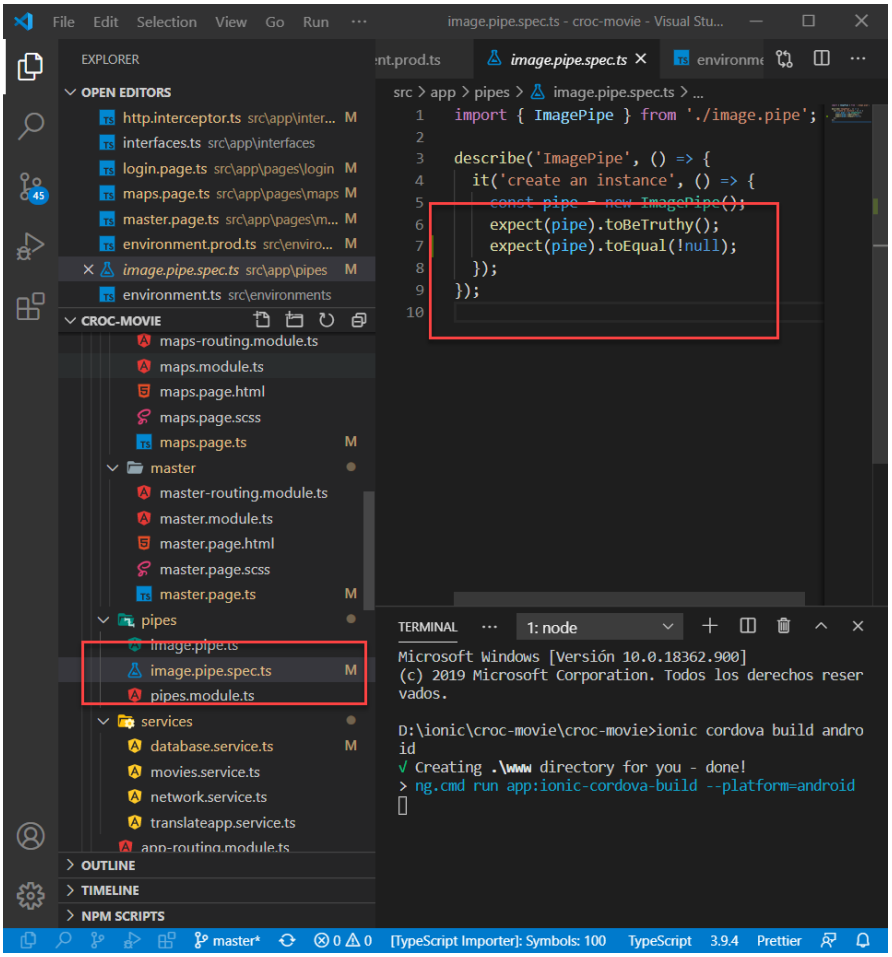


For this solution I have used to Library Translator of Angular and implement via pipe this service

-7 Add unit tests

For this task I have used Jasmine and Karma, configuring a module on APP

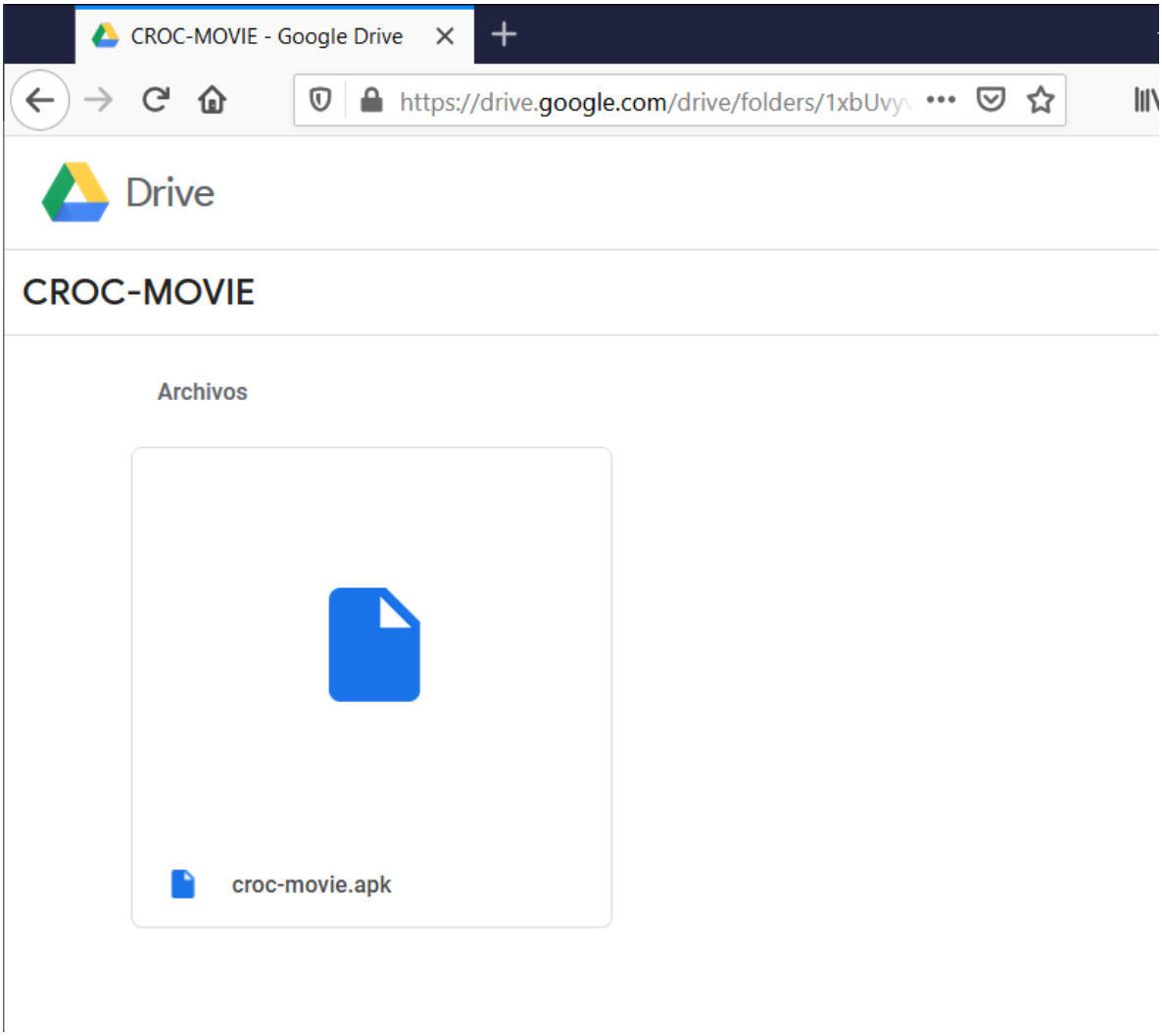




DELIVERABLE

- APK uploaded and shared in Google Drive folder.

https://drive.google.com/drive/folders/1xbUvyv3uggsO0zTA5AVr7vy42quCyZF2?usp=sharing

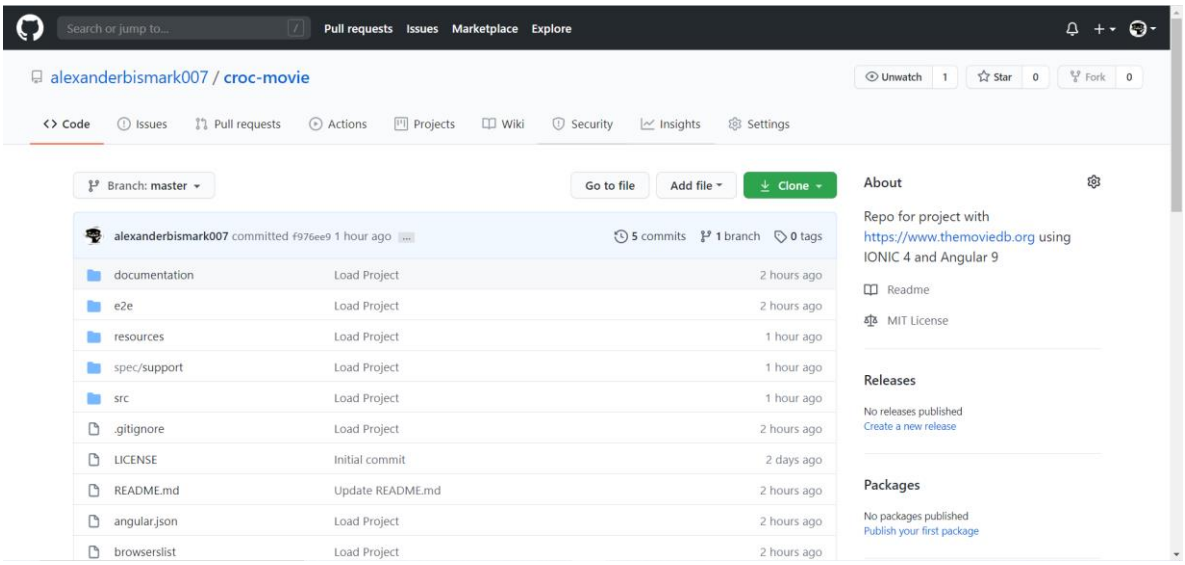


- iOS: If you have MAC, screenshots of the app in the emulator. (optional)

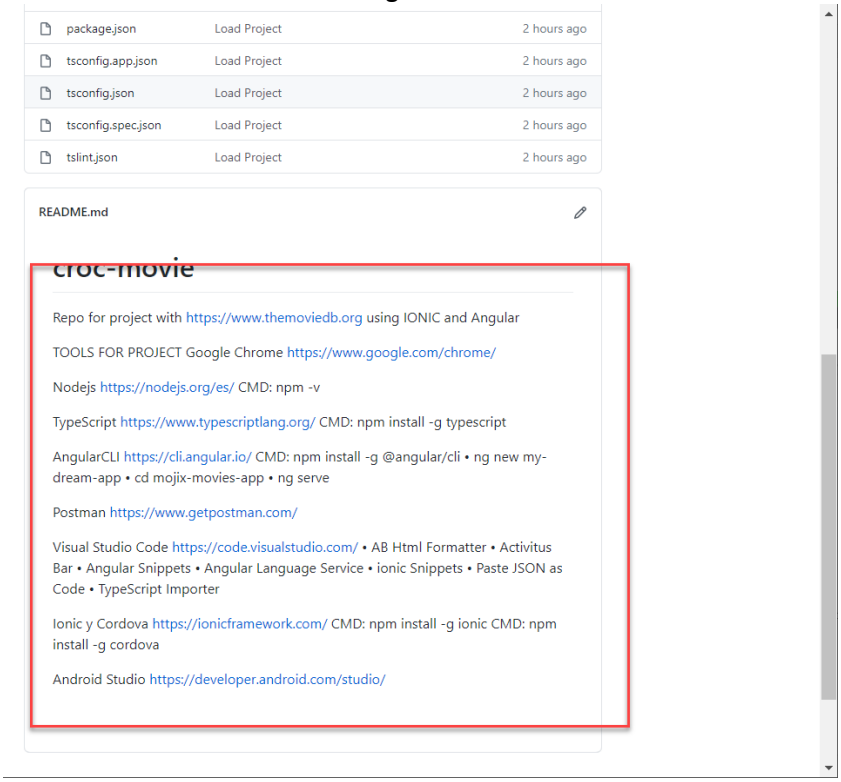
COMMANDS

- ionic cordova platform add android
- ionic cordova build android

- Source code versioned in a public Github repo. (Use the gitflow model: optional).



- Document the environment config and libraries in the Readme file.



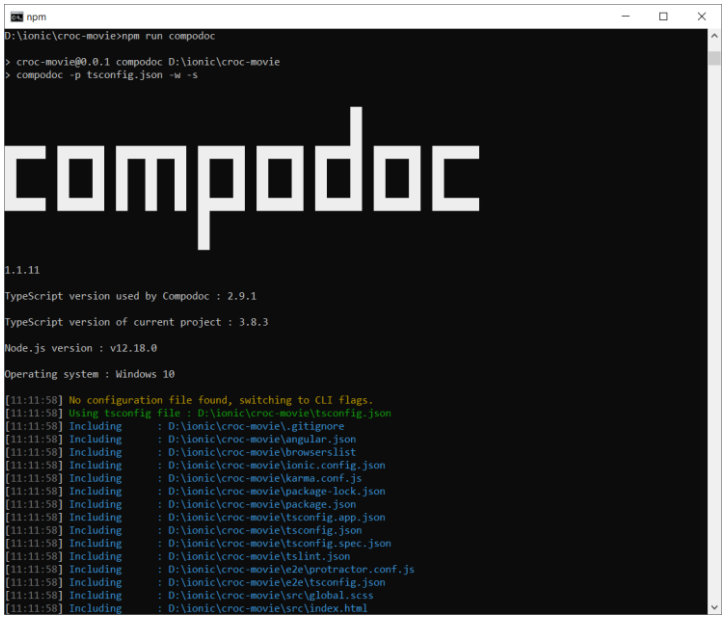
To consider (optional):
- Comments in the code

COMPODOC (Tool for document code)
CMD: npm install --save-dev @compodoc/compodoc

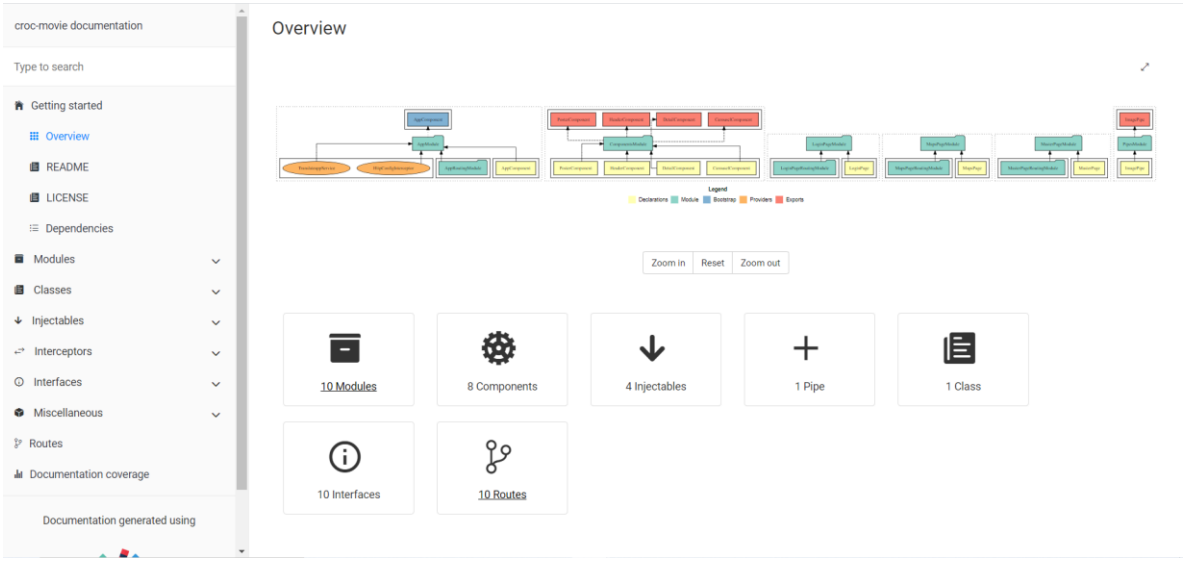
Add in package.json section scripts

"compodoc": "./node_modules/.bin/compodoc -p tsconfig.json -w -s"

CMD: npm run compodoc



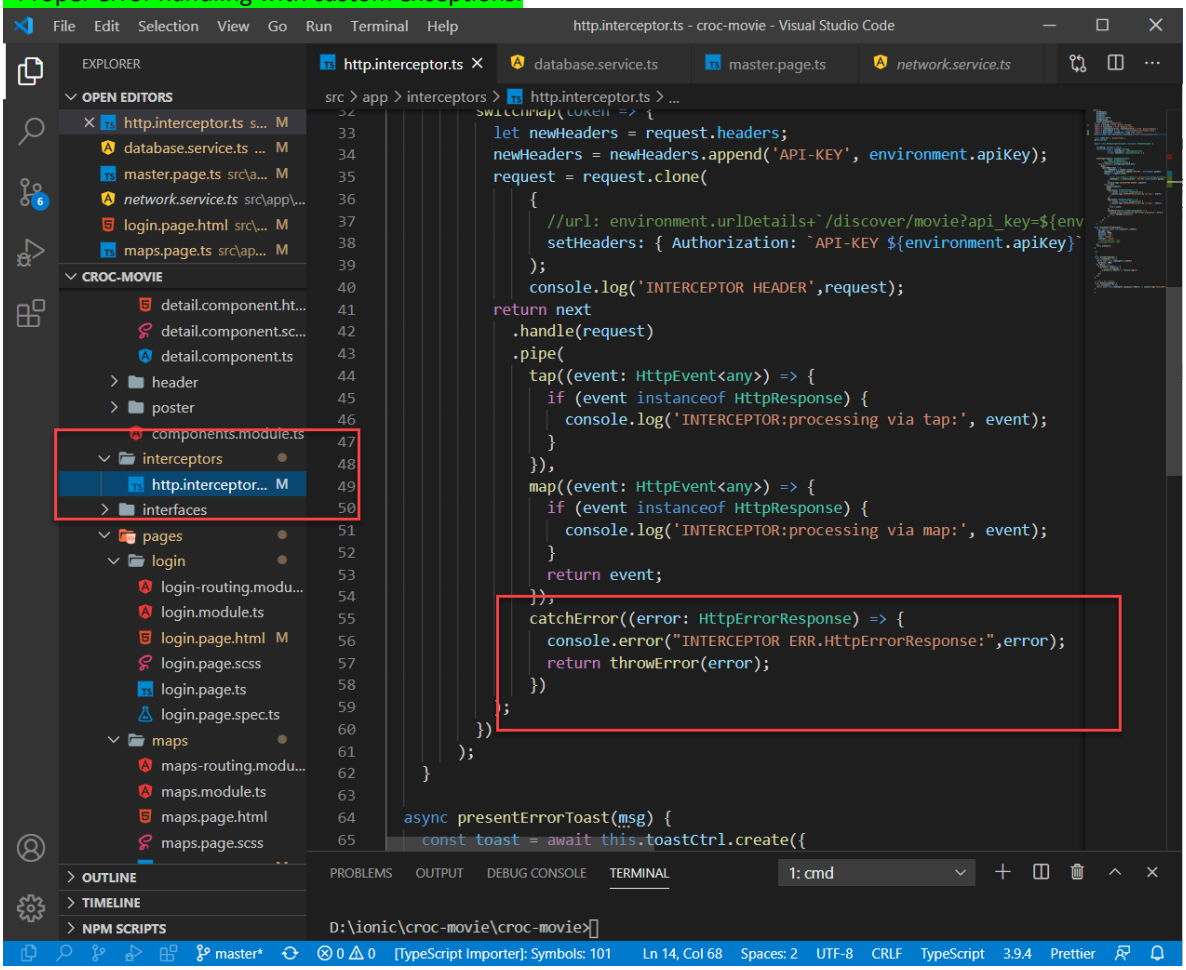
Access to: http://127.0.0.1:8080/index.html



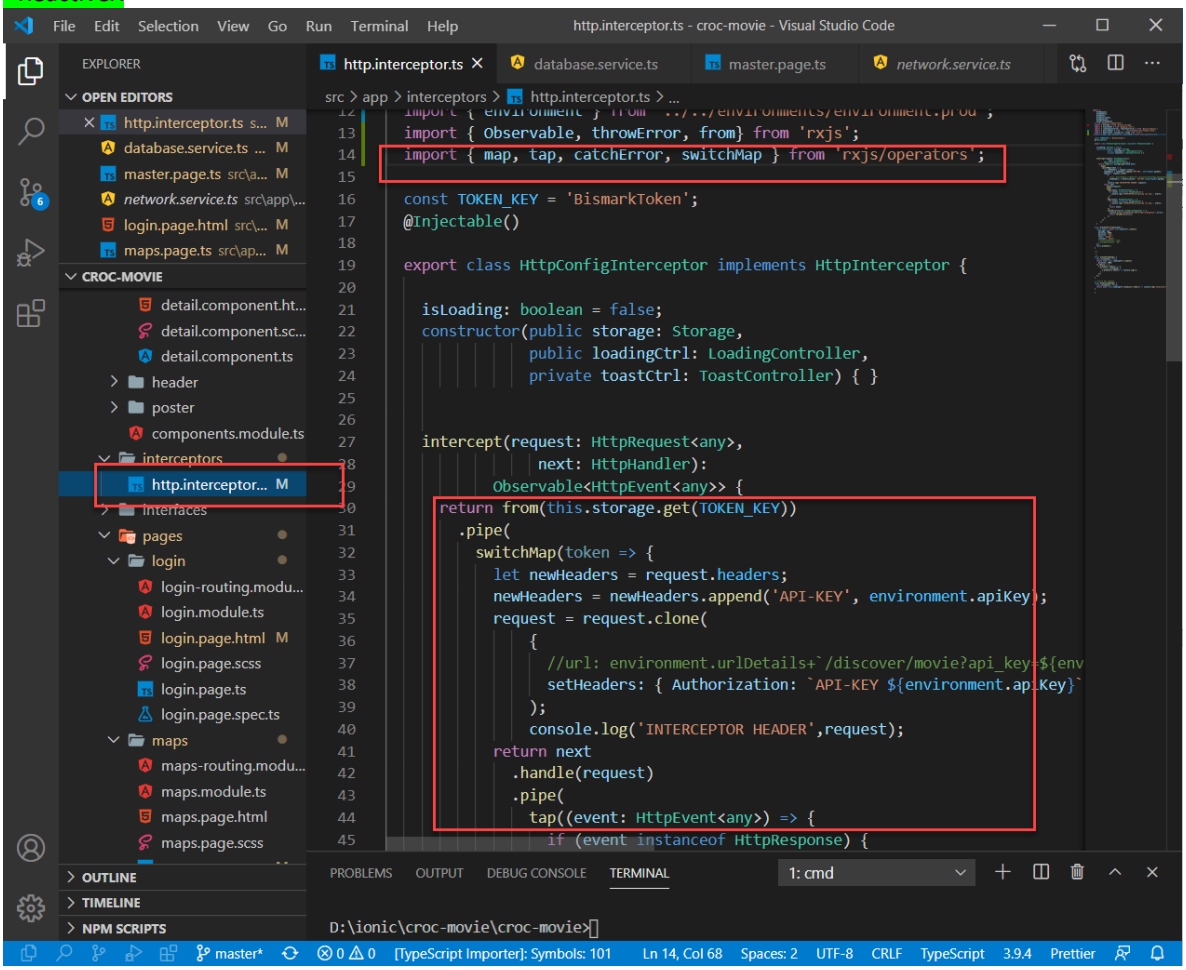
IMPORTANT:

As the project progresses you can generate the documentation at any time, the important thing is to follow the COMPODOC rules (https://compodoc.app/guides/demo.html)

- Proper error handling with custom exceptions.



- ReactiveX


File Edit Selection View Go Run Terminal Help
http.interceptor.ts - croc-movie - Visual Studio Code
EXPLORER
OPEN EDITORS
http.interceptor.ts s... M
database.service.ts ... M
master.page.ts src\a... M
network.service.ts src\app\...
login.page.html src\... M
maps.page.ts src\ap... M
CROC-MOVIE
detail.component.ht...
detail.component.sc...
detail.component.ts
header
poster
components.module.ts
interceptors
http.interceptor... M
interfaces
pages
login
login-routing.modu...
login.module.ts
login.page.html M
login.page.scss
login.page.ts
login.page.spec.ts
maps
maps-routing.modu...
maps.module.ts
maps.page.html
maps.page.scss
OUTLINE
TIMELINE
NPM SCRIPTS
http.interceptor.ts
database.service.ts
master.page.ts
network.service.ts
src > app > interceptors > http.interceptor.ts > ...
import { Observable, throwError, from} from 'rxjs';
import { map, tap, catchError, switchMap } from 'rxjs/operators';
const TOKEN_KEY = 'BismarkToken';
@Injectable()
export class HttpConfigInterceptor implements HttpInterceptor {
isLoading: boolean = false;
constructor(public storage: Storage,
public loadingCtrl: LoadingController,
private toastCtrl: ToastController) { }
intercept(request: HttpRequest<any>,
next: HttpHandler):
Observable<HttpEvent<any>> {
return from(this.storage.get(TOKEN_KEY))
.pipe(
switchMap(token => {
let newHeaders = request.headers;
newHeaders = newHeaders.append('API-KEY', environment.apiKey);
request = request.clone(
{
//url: environment.urlDetails+`/discover/movie?api_key=${env
setHeaders: { Authorization: `API-KEY ${environment.apiKey}`
});
console.log('INTERCEPTOR HEADER',request);
return next
.handle(request)
.pipe(
tap((event: HttpEvent<any>) => {
if (event instanceof HttpResponse) {
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
1: cmd
D:\ionic\croc-movie\croc-movie>
master* 0 0 [TypeScript Importer]: Symbols: 101 Ln 14, Col 68 Spaces: 2 UTF-8 CRLF TypeScript 3.9.4 Prettier