

Configuración de Amplify AWS

Primero instalamos Amplify de manera global en nuestra PC

```
PS C:\Users\julio> npm install -g @aws-amplify/cli
added 26 packages in 3m
7 packages are looking for funding
  run 'npm fund' for details
PS C:\Users\julio> amplify configure
```

Después configuramos en que región estamos

```
Sign in to your AWS administrator account:
https://console.aws.amazon.com/
Press Enter to continue

Specify the AWS Region
? region: us-east-1
Follow the instructions at
https://docs.amplify.aws/cli/start/install/#configure-the-amplify-cli
```

Después creamos un usuario para poder conectarnos, creamos un usuario y agregamos permisos de Administrador-Access Amplify

IAM > Usuarios

Usuarios (1) Información						
Un usuario de IAM es una identidad con credenciales válidas a largo plazo que se utiliza para interactuar con AWS en una cuenta.						
<input type="text" value="Buscar usuarios por nombre de usuario o clave de acceso"/>						
<input type="checkbox"/>	Nombre de usuario	Grupos	Última actividad	MFA	Antigüedad de la contraseña	Antigüedad de la clave activa
<input type="checkbox"/>	amplify-JulioJohan	Ninguno	Nunca	Ninguno	Ninguno	hace 6 minutos

Al finalizar de crear el usuario crearemos nuestras Access key para acceder con este usuario

Access key best practices & alternatives

Avoid using long-term credentials like access keys to improve your security. Consider the following use cases and alternatives.

☒ **Command Line Interface (CLI)**
You plan to use this access key to enable the AWS CLI to access your AWS account.


☐ **Local code**
You plan to use this access key to enable application code in a local development environment to access your AWS account.

☐ **Application running on an AWS compute service**
You plan to use this access key to enable application code running on an AWS compute service like Amazon EC2, Amazon ECS, or AWS Lambda to access your AWS account.

☐ **Third-party service**
You plan to use this access key to enable access for a third-party application or service that monitors or manages your AWS resources.

☐ **Application running outside AWS**
You plan to use this access key to enable an application running on an on-premises host, or to use a local AWS client or third-party AWS plugin.

☐ **Other**
Your use case is not listed here.

 **Alternatives recommended**

- Use [AWS CloudShell](#), a browser-based CLI, to run commands. [Learn more](#)
- Use the [AWS CLI V2](#) and enable authentication through a user in IAM Identity Center. [Learn more](#)

☒ I understand the above recommendation and want to proceed to create an access key.

Cancel

Next

Copiamos nuestra Access Key y nuestro secret key que nos dios aws

```
Follow the instructions at
https://docs.amplify.aws/cli/start/install/#configure-the-amplify-cli

to complete the user creation in the AWS console
https://console.aws.amazon.com/iamv2/home#/users/create
Press Enter to continue

Enter the access key of the newly created user:
? accessKeyId: *****
? secretAccessKey: *****
This would update/create the AWS Profile in your local machine
? Profile Name: JulioJohan

Successfully set up the new user.
```

Creamos nuestro Proyecto de angular

```
PS C:\Users\julio\Documents\Ingenieria\GDGS3091\Desarrollo_Web_Integral\U3> npx -p @angular/cli ng new amplify-jmejia
Need to install the following packages:
  @angular/cli@16.1.0
Ok to proceed? (y) y
? Would you like to add Angular routing? Yes
? Which stylesheet format would you like to use? CSS
CREATE amplify-jmejia/angular.json (2740 bytes)
CREATE amplify-jmejia/package.json (1045 bytes)
CREATE amplify-jmejia/README.md (1067 bytes)
CREATE amplify-jmejia/tsconfig.json (901 bytes)
CREATE amplify-jmejia/.editorconfig (274 bytes)
CREATE amplify-jmejia/.gitignore (548 bytes)
CREATE amplify-jmejia/tsconfig.app.json (263 bytes)
CREATE amplify-jmejia/tsconfig.spec.json (273 bytes)
CREATE amplify-jmejia/.vscode/extensions.json (130 bytes)
CREATE amplify-jmejia/.vscode/launch.json (470 bytes)
CREATE amplify-jmejia/.vscode/tasks.json (938 bytes)
CREATE amplify-jmejia/src/main.ts (214 bytes)
CREATE amplify-jmejia/src/favicon.ico (948 bytes)
CREATE amplify-jmejia/src/index.html (299 bytes)
CREATE amplify-jmejia/src/styles.css (80 bytes)
CREATE amplify-jmejia/src/app/app-routing.module.ts (245 bytes)
CREATE amplify-jmejia/src/app/app.module.ts (393 bytes)
CREATE amplify-jmejia/src/app/app.component.html (23115 bytes)
```

Al finalizar agregamos un archivo llamado polyfills.ts donde contendrá esta información

```
(window as any).global = window;
(window as any).process = {
  env: { DEBUG: undefined },
};
```

Iremos a nuestro archivo angular.json para poder llamar el archivo que creamos anteriormente

```
"polyfills": [
  "zone.js",
  "zone.js/testing",
  "src/polyfills.ts"
],
```

Despues Agregamo la ruta de nuestro archivo creado en tsconfig.app.json

```
"files": [
  "src/main.ts",
  "src/polyfills.ts"
],
```

Iniciamos para nuestro proyecto dentro de angular con amplify

```
PS C:\Users\Julio\Documents\Ingenieria\DESARROLLO\Desarrollo_Mob_Integral\UI\amplify-juejia> amplify init
Note: It is recommended to run this command from the root of your app directory
? Enter a name for the project amplify/juejia
The following configuration will be applied:

Project information
| Name: amplify/juejia
| Environment: dev
| Default editor: Visual Studio Code
| App type: javascript
| Javascript framework: angular
| Source Directory Path: src
| Distribution Directory Path: dist
| Build Command: npm.cmd run-script build
| Start Command: ng serve

? Initialize the project with the above configuration? Yes
Using default provider awscloudformation
? Select the authentication method you want to use: AWS profile

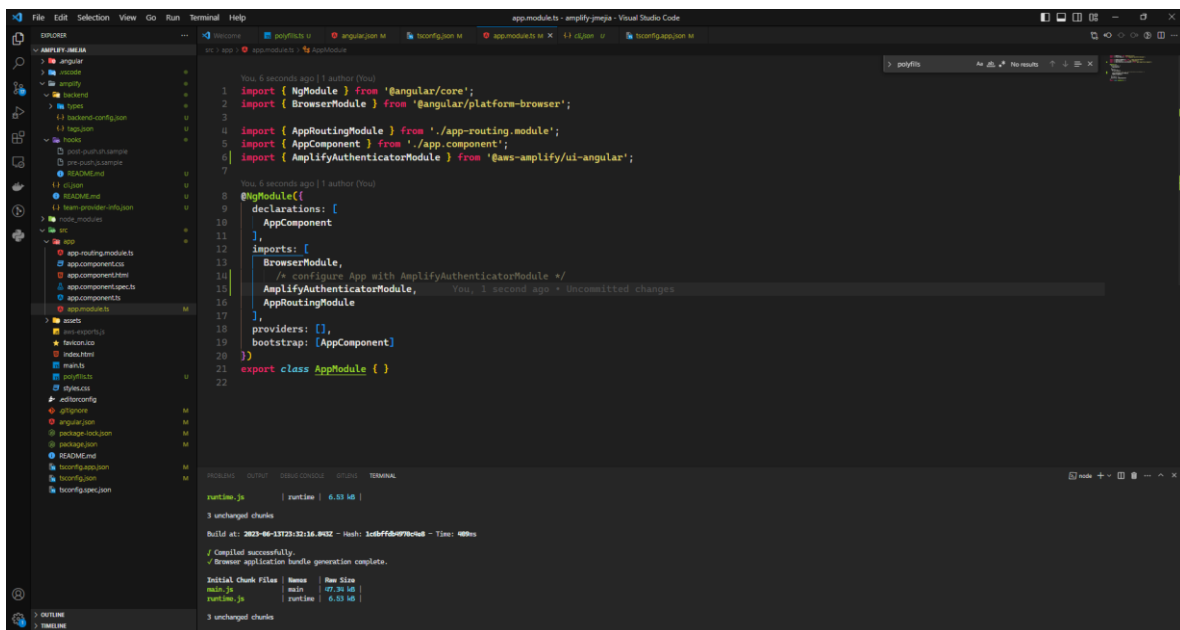
For more information on AWS Profiles, see:
https://docs.aws.amazon.com/cli/latest/userguide/cli-configure-profiles.html

? Please choose the profile you want to use: JulioJohan
Adding backend environment dev to AWS Amplify app: d3bawm26e9do

Deployment completed.
Deploying root stack amplify/juejia [ ] 2/0
amplify/amplify-juejia-dev-27L-AWS::CloudFormation::Stack CREATE_IN_PROGRESS Tue Jun 13 2023 17:18:34L
DeploymentBackend AWS::S3::Bucket CREATE_IN_PROGRESS Tue Jun 13 2023 17:18:38L
AuthRole AWS::IAM::Role CREATE_COMPLETE Tue Jun 13 2023 17:18:53L
BackendRole AWS::IAM::Role CREATE_COMPLETE Tue Jun 13 2023 17:18:53L

? Help improve Amplify CLI by sharing non sensitive configurations on failures (y/n) - no
Amplify provider initialized successfully.
? Initialized provider successfully.
✓ Initialized your environment successfully.
```

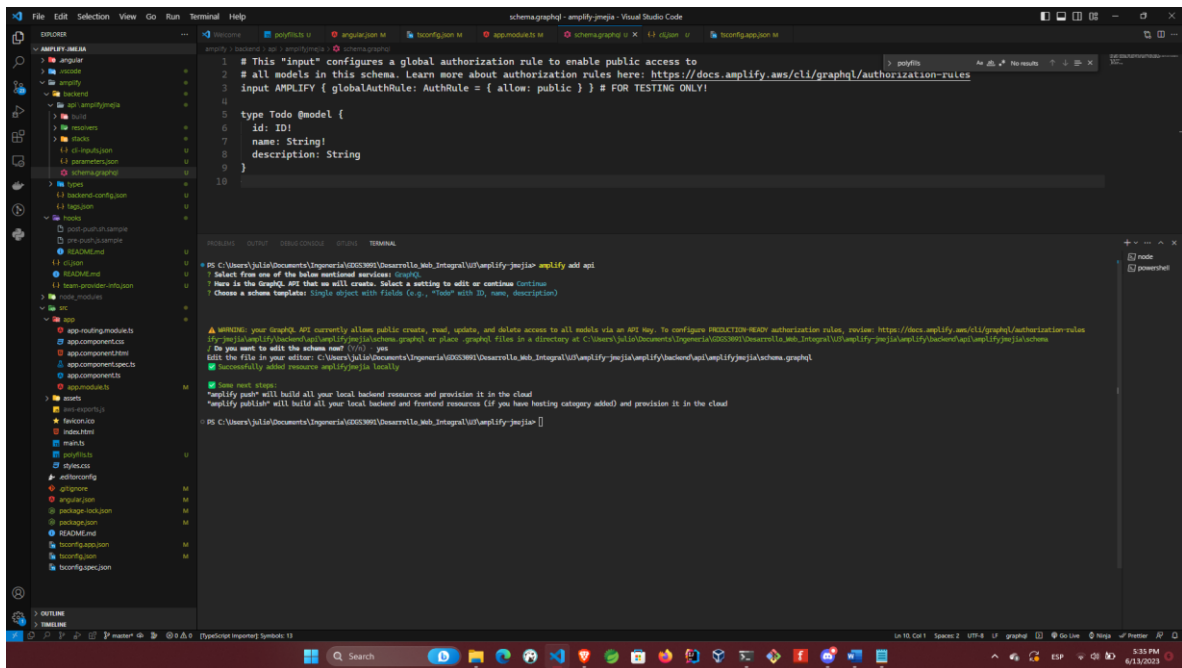
Importamos el Modulo



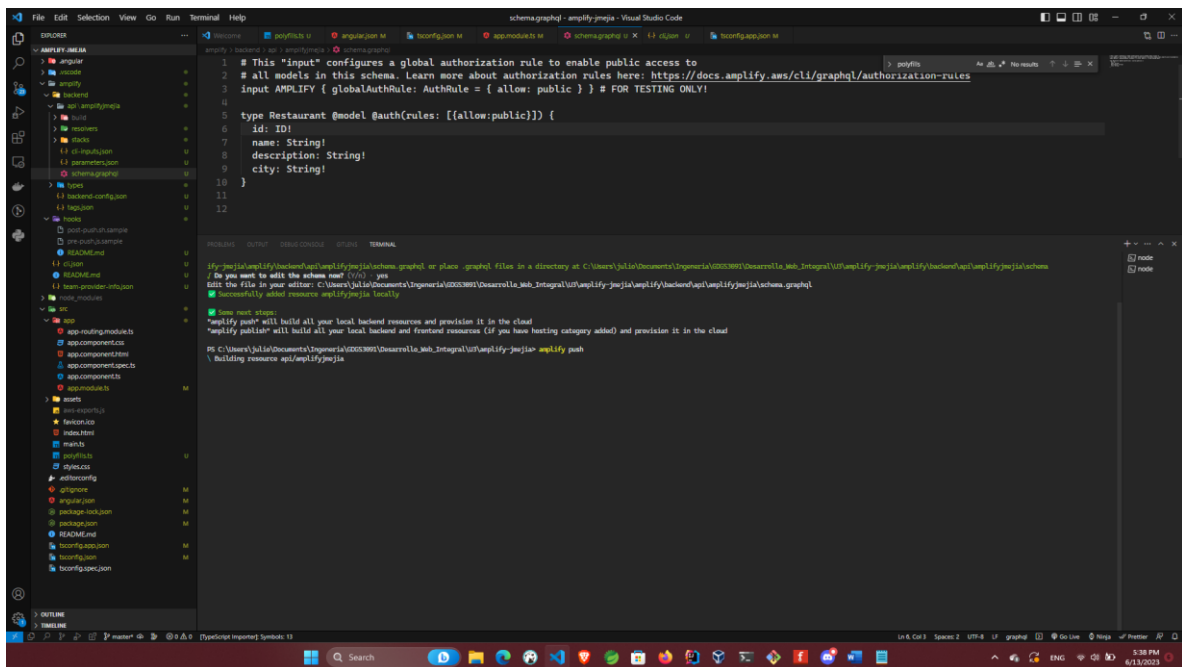
```
import { NgModule } from '@angular/core';
import { BrowserModule } from '@angular/platform-browser';
import { AppRoutingModule } from './app-routing.module';
import { AppComponent } from './app.component';
import { AmplifyAuthenticatorModule } from '@aws-amplify/ui-angular';

@NgModule({
  declarations: [
    AppComponent
  ],
  imports: [
    BrowserModule,
    AppRoutingModule,
    AmplifyAuthenticatorModule,
  ],
  providers: [],
  bootstrap: [AppComponent]
})
export class AppModule {}
```

API de GraphQL la aplicación y aprovisione automáticamente una base de datos ejecutando el siguiente comando desde la raíz del directorio de la aplicación:



Creando el esquema poniendo la anotación model para poder hacer un CRUD y el auth



Creando un crud con Grapql

```

Current Environment: dev

Category Resource name Operation Provider plugin
Api amplifyjmejia Create awscloudformation

/ Are you sure you want to continue? (Y/N) - yes

! WARNING: your GraphQL API currently allows public create, read, update, and delete access to all models via an API Key. To configure PRODUCTION-READY authorization rules, review: https://docs.amplify.aws/cli/graphql/authorization-rules

✔ GraphQL schema compiled successfully.

Edit your schema at C:\Users\Julio\Documents\Ingenieria\GGG38991\Desarrollo_Web_Integral\UI\amplify-jmejia\amplify\backend\api\amplifyjmejia\schema.graphql or place .graphql files in a directory at C:\Users\Julio\Documents\Ingenieria\GGG38991\Desarrollo_Web_Integral\UI\amplify-jmejia\amplify\backend\api\amplifyjmejia\schema
! Building resource api/amplifyjmejia
! WARNING: your GraphQL API currently allows public create, read, update, and delete access to all models via an API Key. To configure PRODUCTION-READY authorization rules, review: https://docs.amplify.aws/cli/graphql/authorization-rules
/ Building resource api/amplifyjmejia ✔ GraphQL schema compiled successfully.

Edit your schema at C:\Users\Julio\Documents\Ingenieria\GGG38991\Desarrollo_Web_Integral\UI\amplify-jmejia\amplify\backend\api\amplifyjmejia\schema.graphql or place .graphql files in a directory at C:\Users\Julio\Documents\Ingenieria\GGG38991\Desarrollo_Web_Integral\UI\amplify-jmejia\amplify\backend\api\amplifyjmejia\schema
! Do you want to generate code for your newly created GraphQL API? Yes
! Choose the code generation language target: regular
! Enter the file name pattern of graphql queries, mutations and subscriptions src\graphql\*.*.graphql
! Do you want to generate/update all possible GraphQL operations - queries, mutations and subscriptions Yes
! Enter maximum statement depth [Increase from default if your schema is deeply nested] 2
! Enter the file name for the generated code src\app\API.service.ts

Deploying resources into dev environment. This will take a few minutes. +
Deploying root stack amplifyjmejia [ - ] 0/2
  amplify-amplifyjmejia-dev-171- AWS::CloudFormation::Stack UPDATE_IN_PROGRESS Tue Jun 13 2023 17:40:01.
  amplifyjmejia AWS::CloudFormation::Stack CREATE_IN_PROGRESS Tue Jun 13 2023 17:40:06.
Deploying api/amplifyjmejia [ - ] 4/6
  GraphQLAPI AWS::AppSync::GraphQLAPI CREATE_COMPLETE Tue Jun 13 2023 17:40:13.
  GraphQLAPITransformSchema3C AWS::AppSync::GraphQLSchema CREATE_COMPLETE Tue Jun 13 2023 17:40:28.
  GraphQLAPIDefaultApiKey215A6D AWS::AppSync::ApiKey CREATE_COMPLETE Tue Jun 13 2023 17:40:36.
  GraphQLAPIACTIONED95A13CF9 AWS::AppSync::DataSource CREATE_COMPLETE Tue Jun 13 2023 17:40:36.
  Restaurant AWS::CloudFormation::Stack CREATE_IN_PROGRESS Tue Jun 13 2023 17:40:29.

WeScript Importer Symbols: 13

```

Implementado la autenticacion

The screenshot shows the Visual Studio Code interface with the following components:

- Explorer (Left):** Displays the project structure. Key folders include 'angular', 'backend', 'frontend', and 'src'. The 'src' folder contains 'assets', 'graphiql', and 'index.html'.
- Main Editor:** Shows the 'polyfills.ts' file. The content is as follows:


```

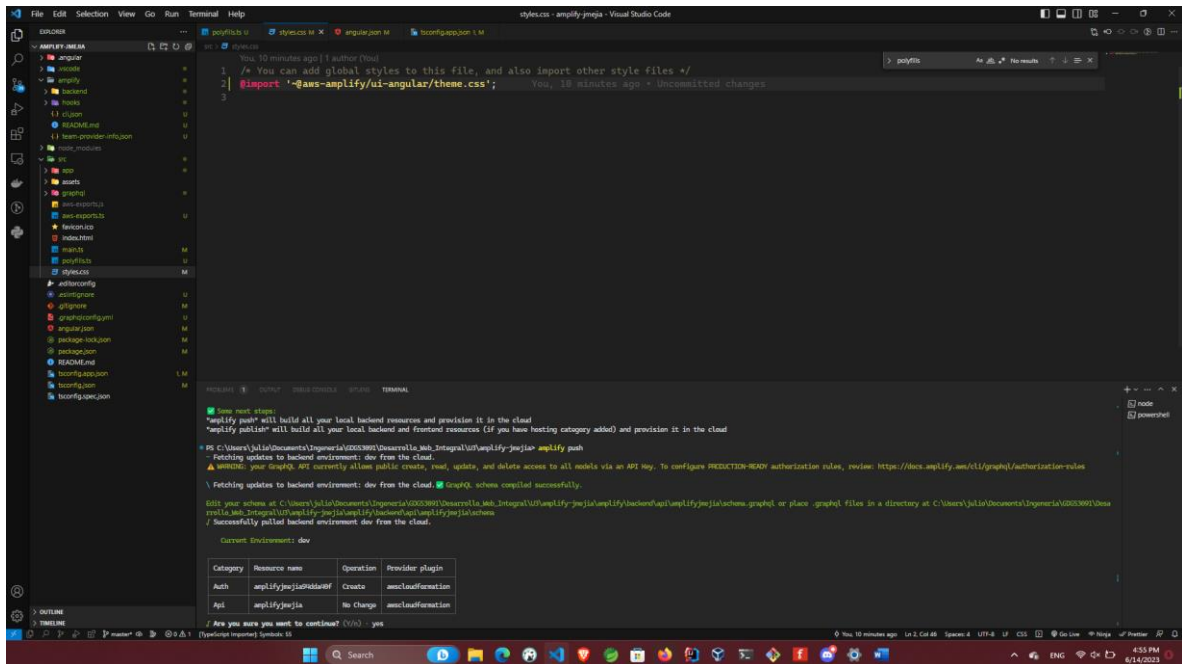
import 'zone.js';
import 'zone.js/testing';
import 'src/polyfills.ts';

// You, 1 second ago • Uncommitted changes

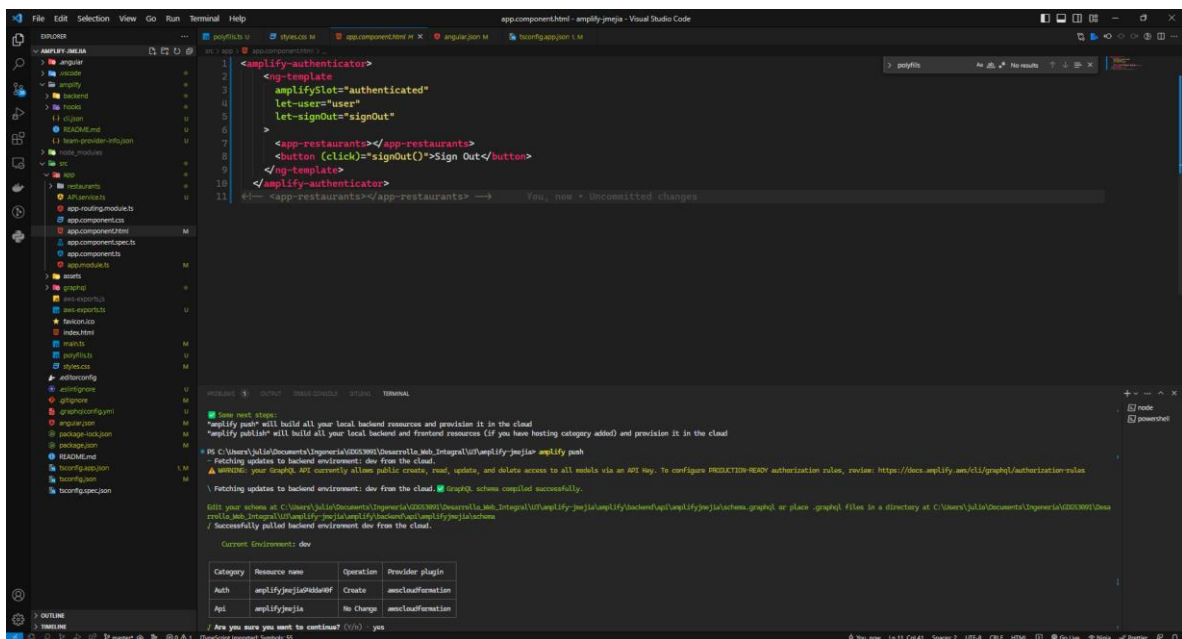
export const polyfills = [
  'zone.js',
  'zone.js/testing',
  'src/polyfills.ts'
];

export const tsconfig = {
  'tsconfig.spec.json',
  'assets': [
    'src/favicon.ico',
    'src/assets'
  ]
};
```
- Output (Bottom):** Shows the output of the 'amplify push' command. It indicates that the current configuration is for Amazon Cognito and that the application is being deployed to the AWS cloud. The output includes a warning about the 'graphiql' schema and a note about the 'amplify push' command.

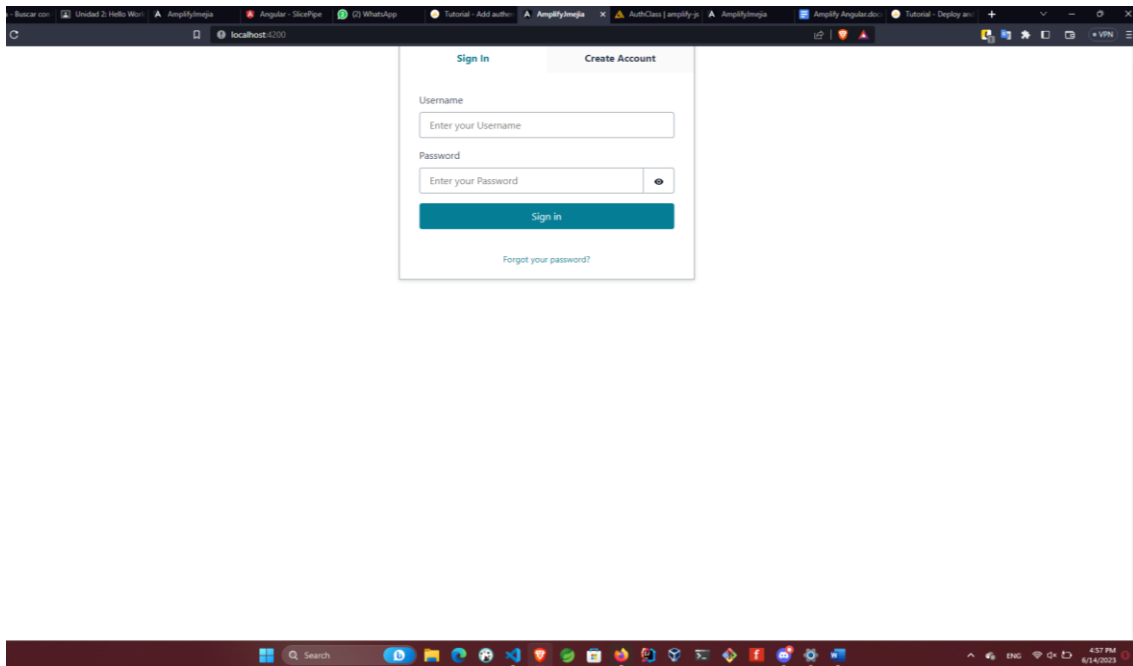
Importando los estilos que tiene aws



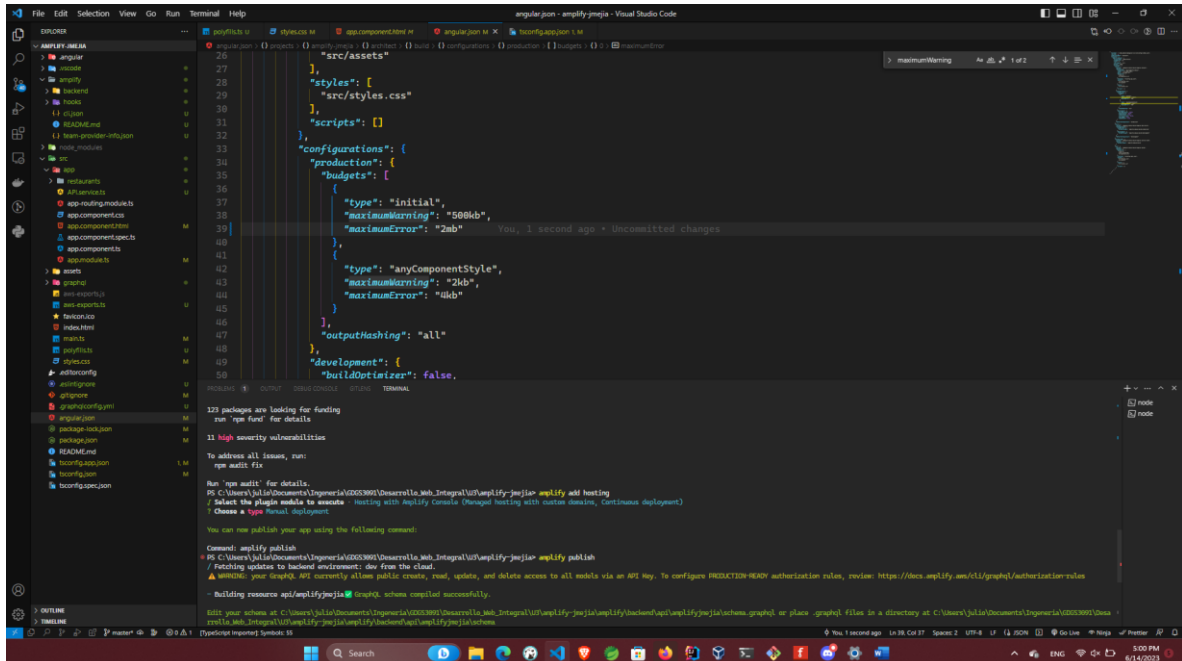
Importando el componente HTML de amplify authenticator



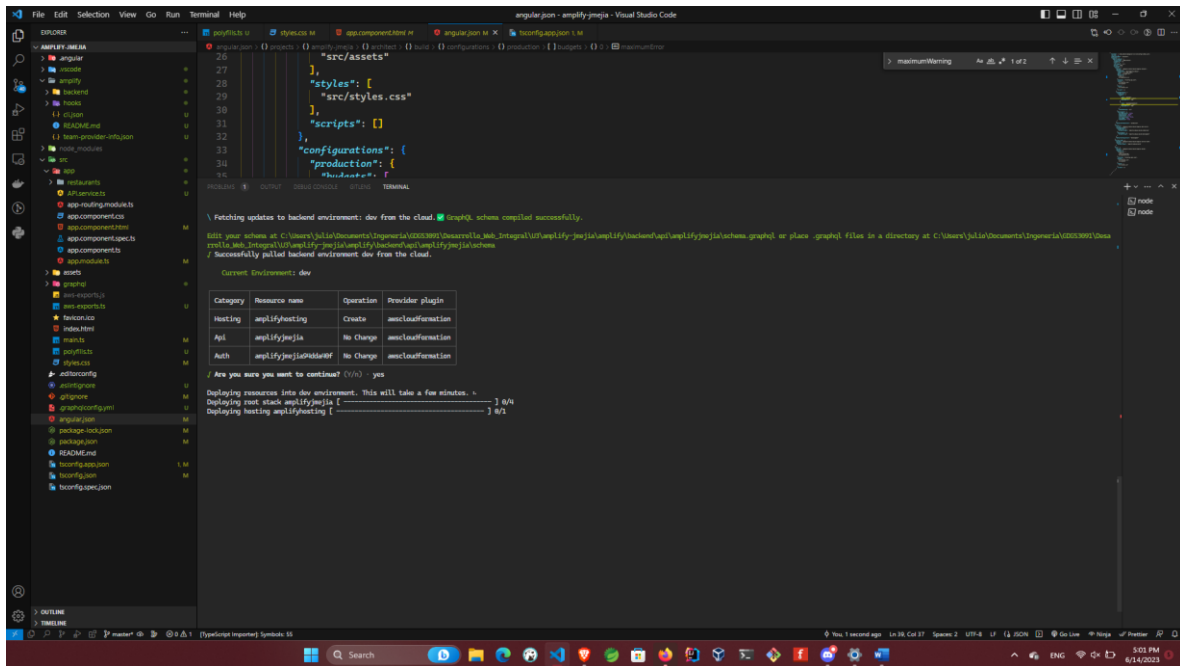
Corremos el proyecto y estará nuestro login y registro



Agregamos el Hosting en AWS

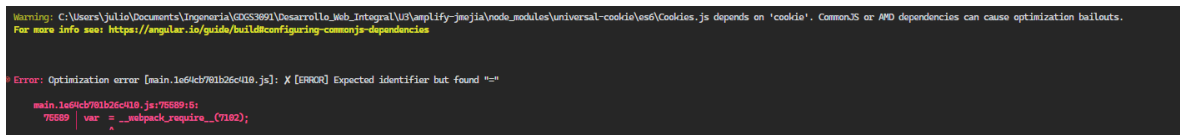


Lo deployamos

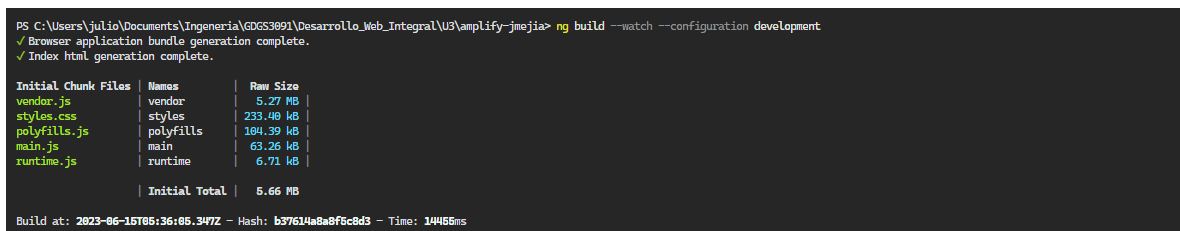


Desplagando mi aplicación n aws

Si llega a marcar este error es porque estamos utilizando angular +16 ya no se requiere utilizar solo ng build



Ejecutamos este comando para simular despliegue



Después lo ponemos pero sin el –watch

```
PS C:\Users\julio\Documents\Ingenieria\GDG3891\Desarrollo_Mob_Integral\US\amplify-jmexia> ng build --configuration development
✓ Browser application bundle generation complete.
✓ Copying assets complete.
✓ Index html generation complete.

Initial Chunk Files | Names | Raw Size
vendor.js           | vendor | 5.27 MB
styles.css          | styles | 213.46 kB
polyfills.js        | polyfills | 104.39 kB
main.js             | main | 63.26 kB
runtime.js          | runtime | 6.71 kB
                    | Initial Total | 6.46 MB

Build at: 2023-06-15T05:37:20.072Z - Hash: 7f6b4f1c2b70ee4c3 - Time: 25273ms

Warning: C:\Users\julio\Documents\Ingenieria\GDG3891\Desarrollo_Mob_Integral\US\amplify-jmexia\node_modules\aws-amplify\analytics\lib-esm\Providers\AWSPinpointProvider.js depends on 'uuid'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

Warning: C:\Users\julio\Documents\Ingenieria\GDG3891\Desarrollo_Mob_Integral\US\amplify-jmexia\node_modules\aws-amplify\analytics\lib-esm\Providers\AmazonPersonalizeProvider.js depends on 'lodash/get'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

Warning: C:\Users\julio\Documents\Ingenieria\GDG3891\Desarrollo_Mob_Integral\US\amplify-jmexia\node_modules\aws-amplify\analytics\lib-esm\Providers\AmazonPersonalizeProvider.js depends on 'lodash/isEmpty'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

Warning: C:\Users\julio\Documents\Ingenieria\GDG3891\Desarrollo_Mob_Integral\US\amplify-jmexia\node_modules\aws-amplify\analytics\lib-esm\Providers\AmazonPersonalizeProvider.js depends on 'lodash/isEqual'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

Warning: C:\Users\julio\Documents\Ingenieria\GDG3891\Desarrollo_Mob_Integral\US\amplify-jmexia\node_modules\aws-amplify\auth\lib-esm\auth.js depends on 'url'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

Warning: C:\Users\julio\Documents\Ingenieria\GDG3891\Desarrollo_Mob_Integral\US\amplify-jmexia\node_modules\aws-amplify\datastore\lib-esm\util.js depends on 'buffer'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

Warning: C:\Users\julio\Documents\Ingenieria\GDG3891\Desarrollo_Mob_Integral\US\amplify-jmexia\node_modules\aws-amplify\datastore\lib-esm\util.js depends on 'uuid'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

Warning: C:\Users\julio\Documents\Ingenieria\GDG3891\Desarrollo_Mob_Integral\US\amplify-jmexia\node_modules\aws-amplify\datastore\lib-esm\util.js depends on 'uuid'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

Warning: C:\Users\julio\Documents\Ingenieria\GDG3891\Desarrollo_Mob_Integral\US\amplify-jmexia\node_modules\aws-amplify\geo\lib-esm\Providers\AmazonLocationServiceProvider.js depends on 'camelcase-keys'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

Warning: C:\Users\julio\Documents\Ingenieria\GDG3891\Desarrollo_Mob_Integral\US\amplify-jmexia\node_modules\aws-amplify\notifications\lib-esm\InAppMessaging\InAppMessaging.js depends on 'lodash/flatten'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

Warning: C:\Users\julio\Documents\Ingenieria\GDG3891\Desarrollo_Mob_Integral\US\amplify-jmexia\node_modules\aws-amplify\notifications\lib-esm\InAppMessaging\SessionTracker\SessionTracker.js depends on 'lodash/noop'. CommonJS or AMD dependencies
```

No mando ningún error al distribuir

```
Warning: C:\Users\julio\Documents\Ingenieria\GDG3891\Desarrollo_Mob_Integral\US\amplify-jmexia\node_modules\amazon-cognito-identity-js\AuthenticationHelper.js depends on 'buffer'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

Warning: C:\Users\julio\Documents\Ingenieria\GDG3891\Desarrollo_Mob_Integral\US\amplify-jmexia\node_modules\amazon-cognito-identity-js\Client.js depends on 'isomorphic-unfetch'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

Warning: C:\Users\julio\Documents\Ingenieria\GDG3891\Desarrollo_Mob_Integral\US\amplify-jmexia\node_modules\amazon-cognito-identity-js\CookiesStorage.js depends on 'js-cookie'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

Warning: C:\Users\julio\Documents\Ingenieria\GDG3891\Desarrollo_Mob_Integral\US\amplify-jmexia\node_modules\universal-cookie\cookies.js depends on 'cookie'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies
```

Lo publicamos

```
PS C:\Users\julio\Documents\Ingenieria\GDG3891\Desarrollo_Mob_Integral\US\amplify-jmexia> amplify publish
/ Building resource api/amplifyjmexia
⚠ WARNING: your GraphQL API currently allows public create, read, update, and delete access to all models via an API Key. To configure PRODUCTION-READY authorization rules, review: https://docs.amplify.aws/cli/graphql/authorization-rules
/ Building resource api/amplifyjmexia GraphQL schema compiled successfully.

Edit your schema at C:\Users\julio\Documents\Ingenieria\GDG3891\Desarrollo_Mob_Integral\US\amplify-jmexia\amplify\backend\api\amplifyjmexia\schema.graphql or place .graphql files in a directory at C:\Users\julio\Documents\Ingenieria\GDG3891\Desarrollo_Mob_Integral\US\amplify-jmexia\amplify\backend\api\amplifyjmexia\schemas
/ Successfully pulled backend environment dev from the cloud.

Current Environment: dev

+-----+-----+-----+-----+
| Category | Resource name | Operation | Provider plugin |
+-----+-----+-----+-----+
| Api      | amplifyjmexia | No Change | awscloudformation |
| Auth     | amplifyjmexia94kdw0f | No Change | awscloudformation |
| Hosting  | amplifyhosting | No Change | awscloudformation |
+-----+-----+-----+-----+

No changes detected

> Do you still want to publish the frontend? Yes
Publish started for amplifyhosting

> amplify-jmexia@0.0.0 build
> ng build

✓ Browser application bundle generation complete.
✓ Copying assets complete.
✓ Generating index.html... 1 rules skipped due to selector errors:
  _amplify-stopperfield_input: not(, [aria-invalid=true]) => Empty sub-selector
✓ Index html generation complete.

Initial Chunk Files | Names | Raw Size | Estimated Transfer Size
main.72a0460c8bdc58.js | main | 973.79 kB | 222.75 kB
styles.378b2f18b845c59f.css | styles | 208.97 kB | 17.86 kB
polyfills.84e0d02a595857.js | polyfills | 33.12 kB | 10.72 kB
runtime.678078359ac2c63e.js | runtime | 1.38 kB | 694 bytes
```

```

For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies
Warning: C:\Users\Julia\Documents\Ingenieria\G053891\Desarrollo_Mob_Integral\UI\amplify-joejia\node_modules\amazon-cognito-identity-js\AuthenticationHelper.js depends on 'buffer'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies
Warning: C:\Users\Julia\Documents\Ingenieria\G053891\Desarrollo_Mob_Integral\UI\amplify-joejia\node_modules\amazon-cognito-identity-js\Client.js depends on 'isomorphic-unfetch'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies
Warning: C:\Users\Julia\Documents\Ingenieria\G053891\Desarrollo_Mob_Integral\UI\amplify-joejia\node_modules\amazon-cognito-identity-js\CognitoStorage.js depends on 'js-cookie'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies
Warning: C:\Users\Julia\Documents\Ingenieria\G053891\Desarrollo_Mob_Integral\UI\amplify-joejia\node_modules\universal-cookie-es0\Cookies.js depends on 'cookie'. CommonJS or AMD dependencies can cause optimization bailouts.
For more info see: https://angular.io/guide/build#configuring-commonjs-dependencies

/ Zipping artifacts completed.
/ Deployment complete!
https://dev.d3bwlwo26m60do.amplifyapp.com

```

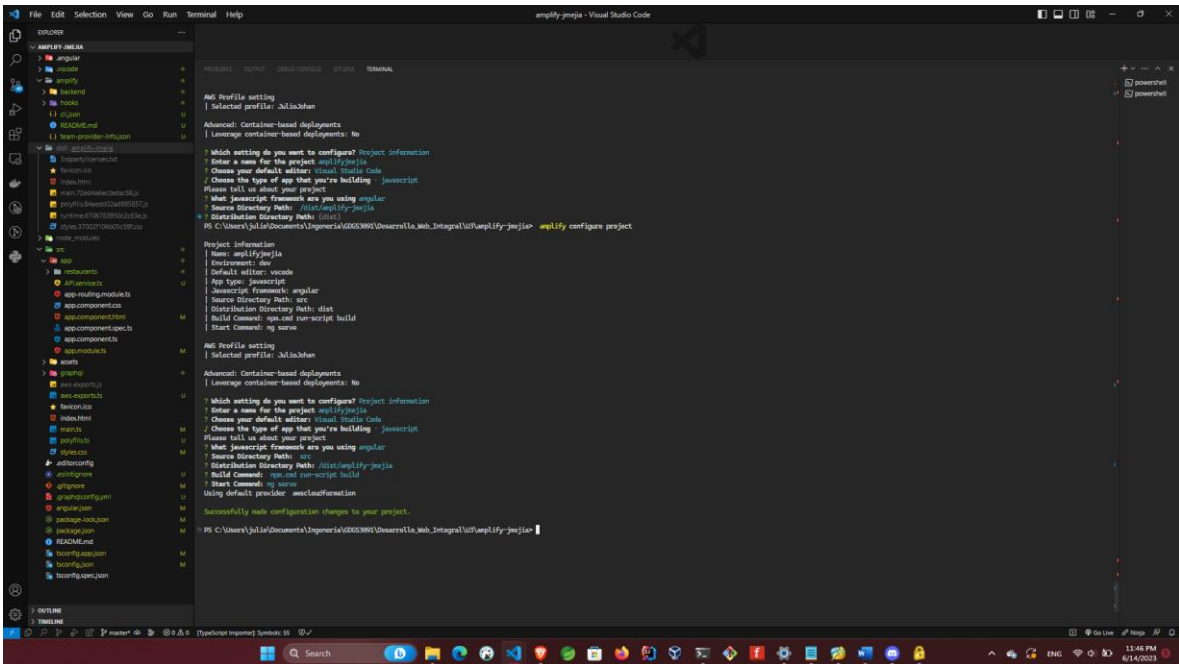
Para evitarlo cambiamos el script en ng build

```

Debug
"scripts": {
  "ng": "ng",
  "start": "ng serve",
  "build": "ng build --configuration development",
  "watch": "ng build --watch --configuration development",
  "test": "ng test"
},

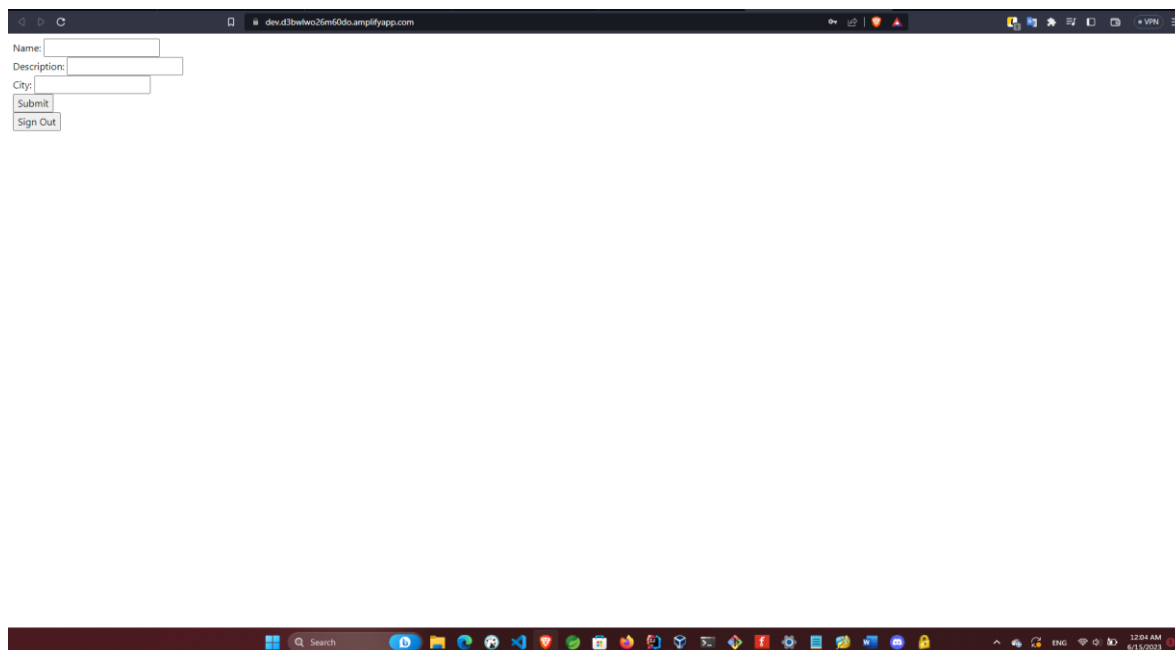
```

Configuramos el proyecto para poder visualizarlo



<https://dev.d3bwlwo26m60do.amplifyapp.com/>

Inicio de Sesión Correctamente



The screenshot shows a web browser window with the address bar displaying "den.d3bawho26m60do.amplifyapp.com". The page content includes a form with the following elements:

- Name:
- Description:
- City:
- Submit:
- Sign Out:

The Windows taskbar at the bottom shows the time as 12:04 AM on 4/14/2023.

Menciona las tecnologías que usaste y da una breve explicación sobre su uso.

Amplify: Servicio para implementar y administrar aplicaciones web como el inicio de sesión y creación de cuenta

AWS: El uso del servicio iam para identificar quienes somos.

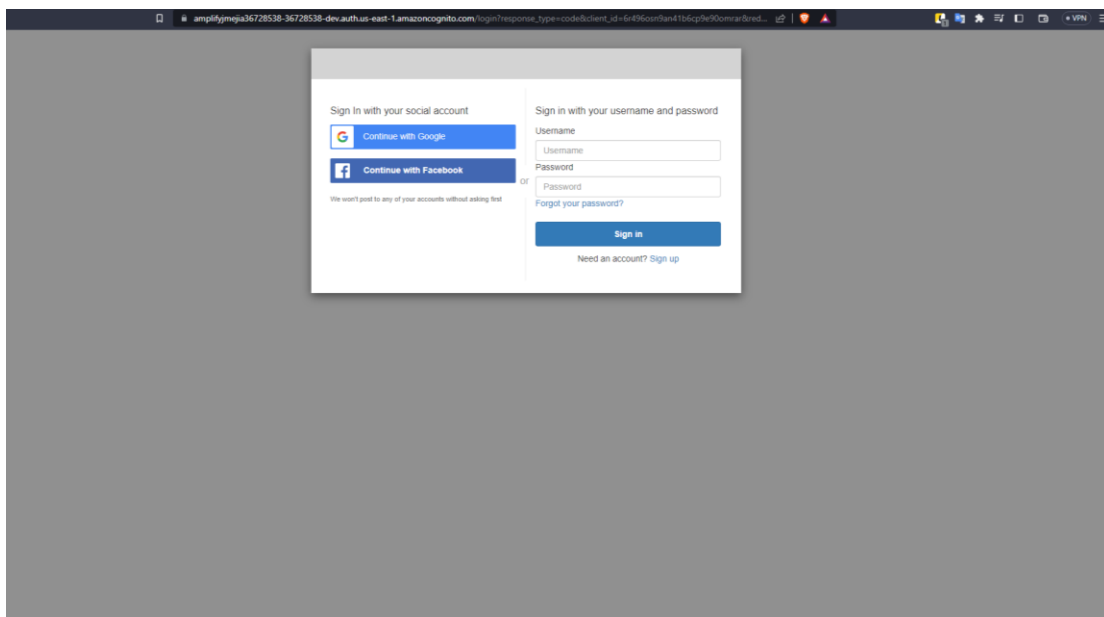
Angular: para el front, visualización de datos, interacción con el usuario

GraphQL: Es un lenguaje de consultas para resolver consultas que podrían ser muy pesados que es el REST

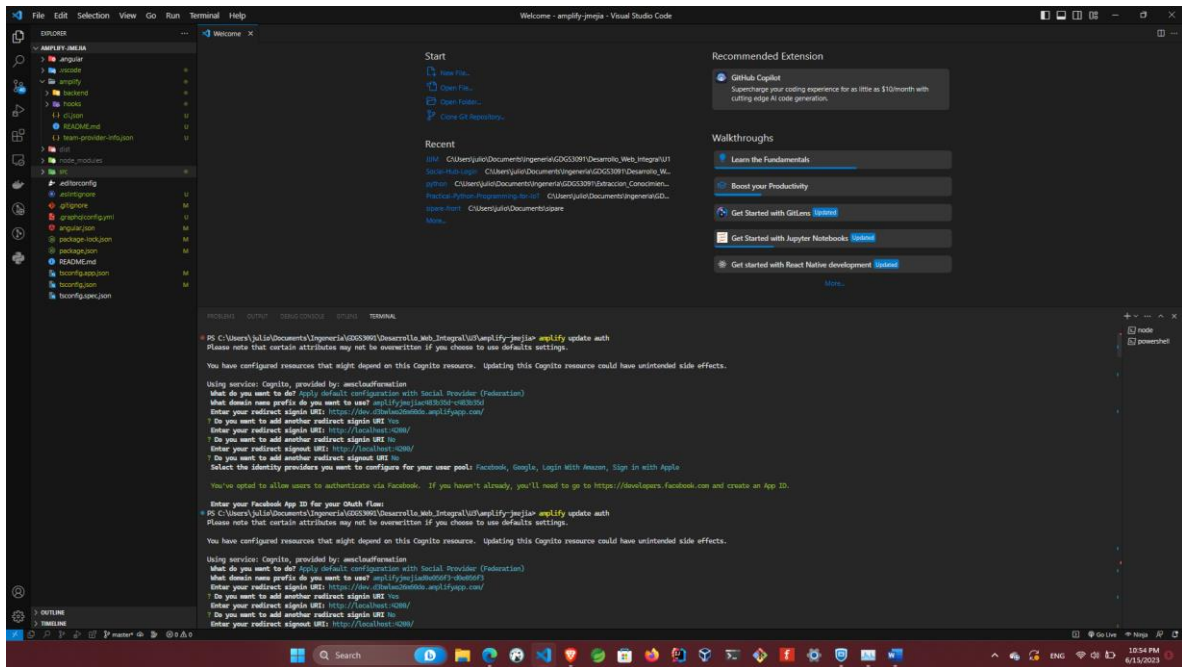
¿Cómo pudieras implementarlo en proyecto que estás desarrollando?

La implementación se podría implementar para el inicio de sesión varias características que nos da este servicio, pero el problema es que nuestra aplicación deseamos obtener el usuario en la base de datos para hacer varias validaciones aquí utilizan GraphQL y por falta de conocimiento de esta tecnología sería una gran desventaja ponerlo además que el tiempo es muy corto pero es una muy buena tecnología

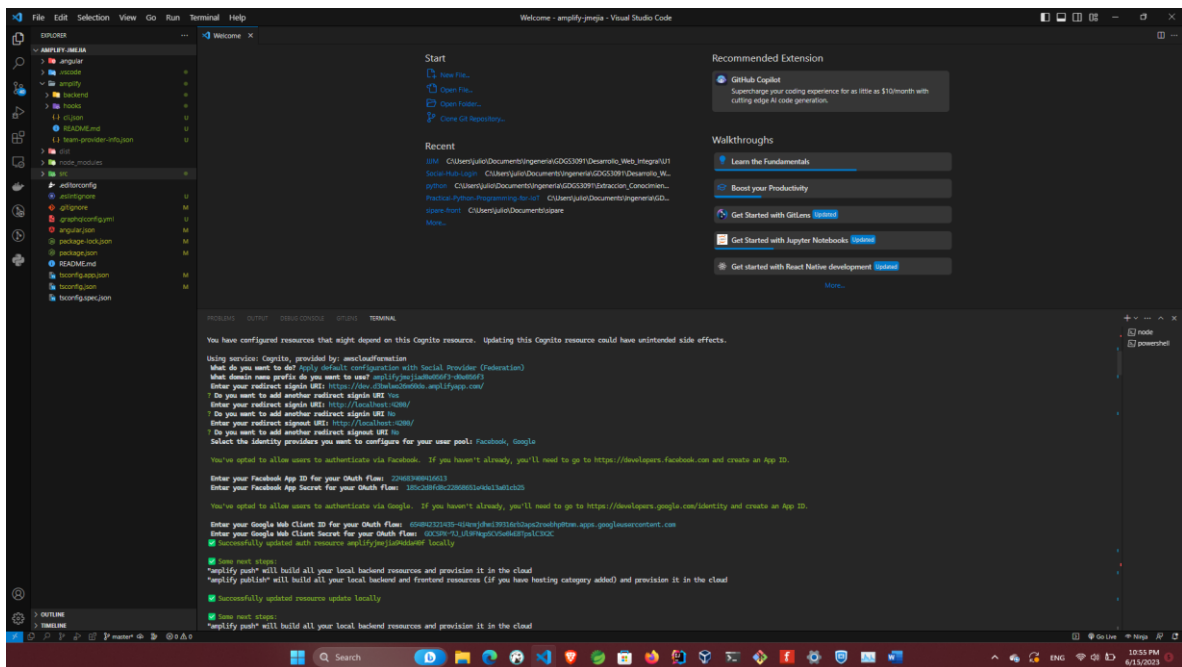
Agregar al menos otras dos [maneras](#) de autenticación como Facebook, Google.



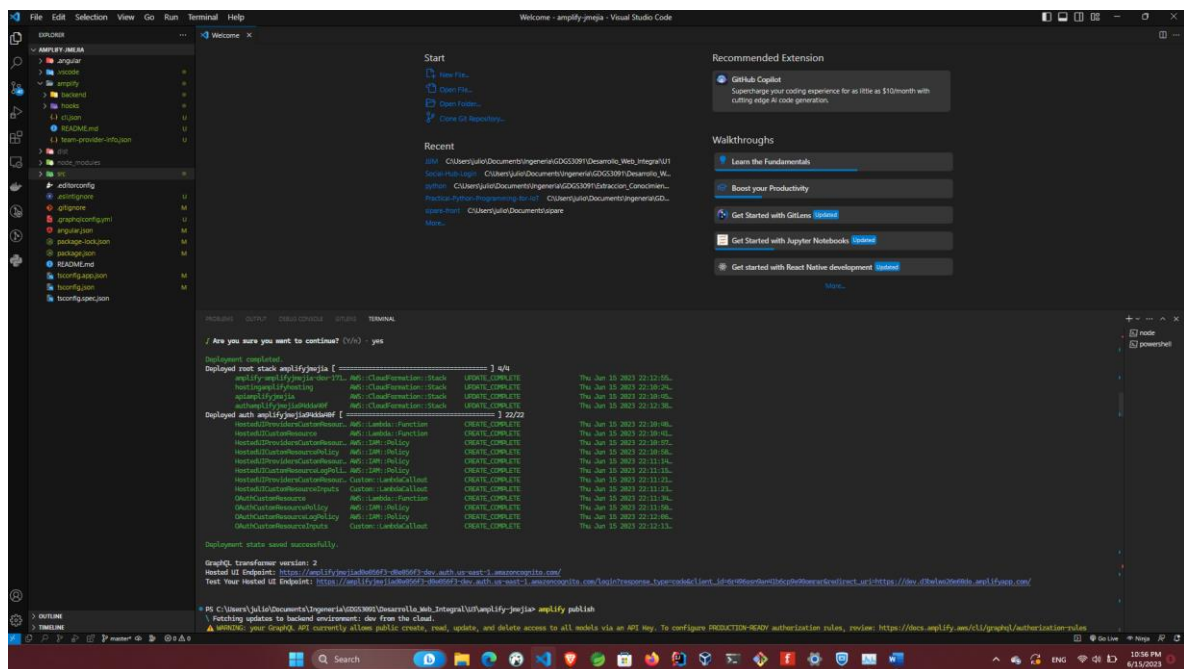
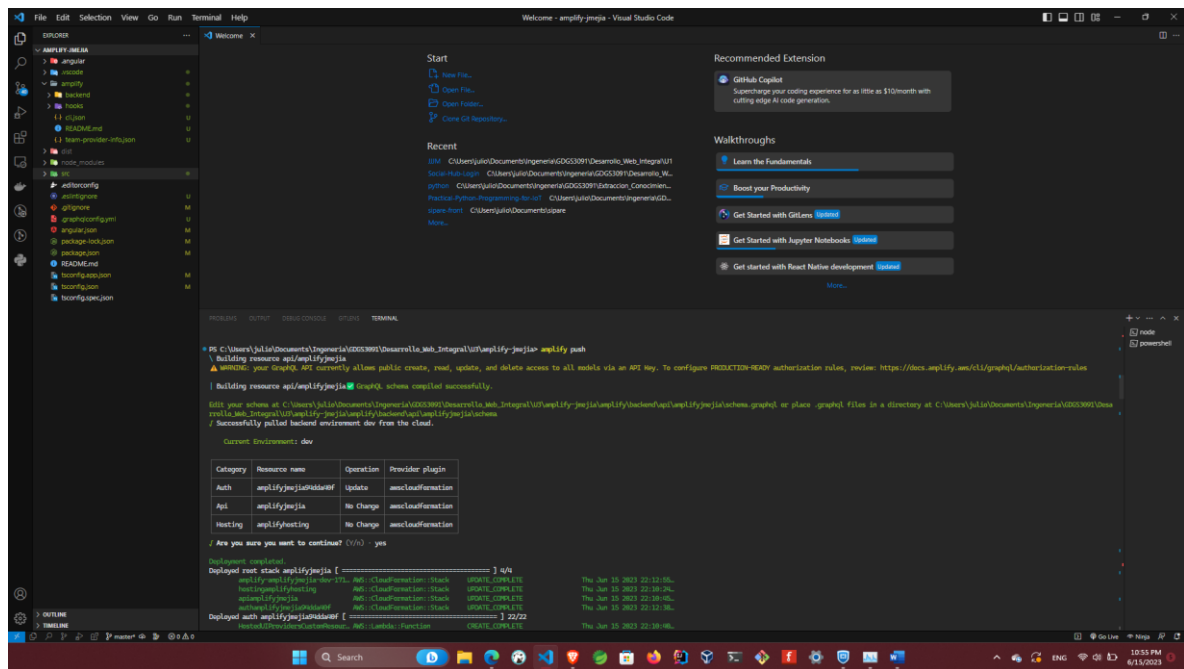
Configurando para Facebook y google

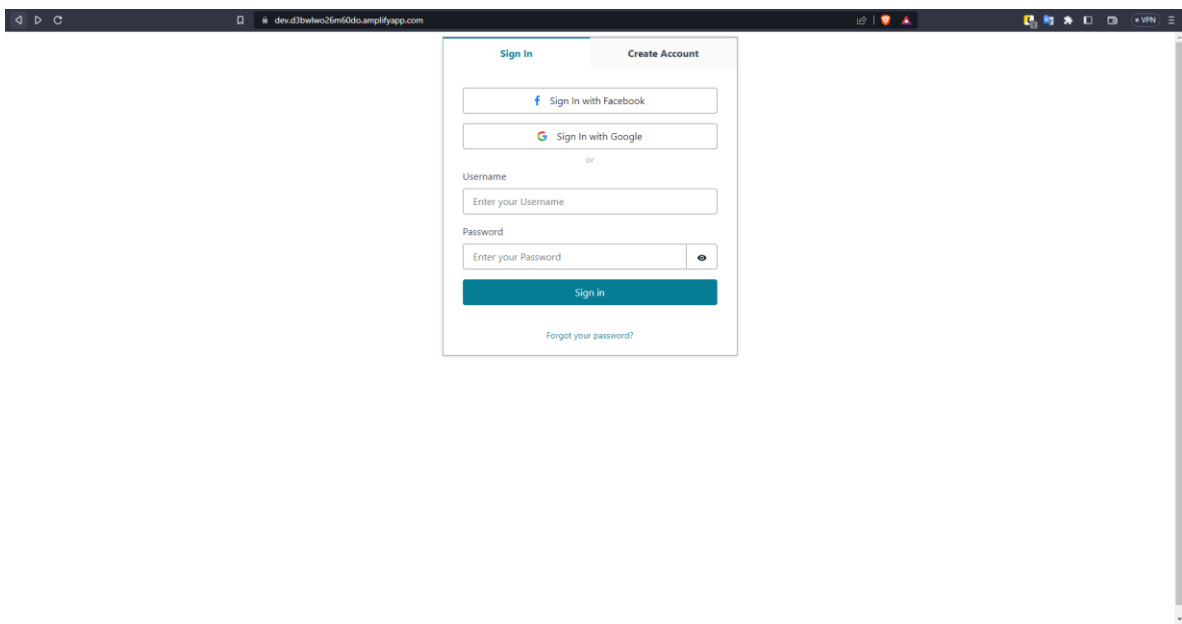
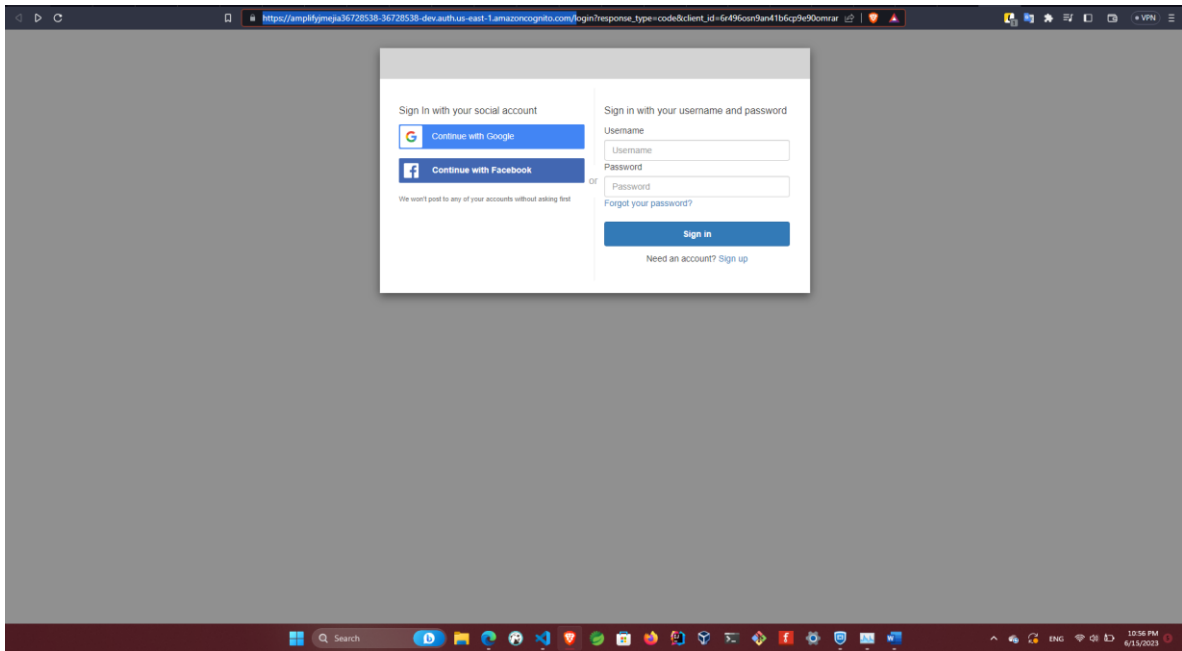


Poniendo api key de cada red social



Lo publicamos





Seleccioamos nuestra cuenta

