

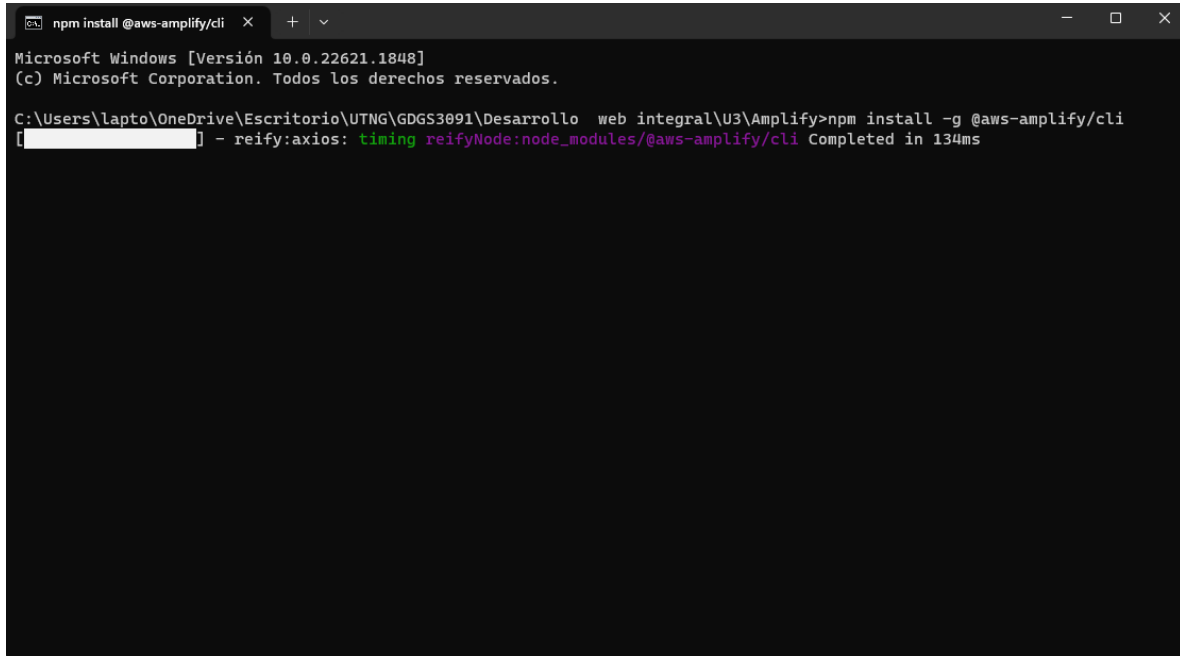
Nombre de la práctica Amplify y Angular

Objetivo

Probar el desarrollo y despliegue de una Aplicación Web Angular junto con su BackEnd usando GraphQL

Instrucciones

Paso 1. Instalar [Amplify CLI](#)



```
npm install @aws-amplify/cli x + v
Microsoft Windows [Versión 10.0.22621.1848]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\lapto\OneDrive\Escritorio\UTNG\GDGS3091\Desarrollo web integral\U3\Amplify>npm install -g @aws-amplify/cli
[ ] - reify:axios: timing reifyNode:node_modules/@aws-amplify/cli Completed in 134ms
```

Paso 2. Agregar autenticación. Crear un nuevo usuario y verificar correo electrónico. Pega pantalla de evidencia

The screenshot shows a Windows terminal window with the following commands and output:

```
C:\WINDOWS\system32\cmd
7 packages are looking for funding
  run 'npm fund' for details

C:\Users\lapto\OneDrive\Escritorio\UTNG\GDGS3091\Desarrollo web integral\U3\Amplify>
C:\Users\lapto\OneDrive\Escritorio\UTNG\GDGS3091\Desarrollo web integral\U3\Amplify>amplify configure
Follow these steps to set up access to your AWS account:

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

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: Amplify-George

Successfully set up the new user.

C:\Users\lapto\OneDrive\Escritorio\UTNG\GDGS3091\Desarrollo web integral\U3\Amplify>
```

The background shows the AWS IAM console for the user 'Amplify-George'. The console displays the user's details, including the ARN, creation date, and access keys. The 'Credenciales de seguridad' tab is selected, showing the console login URL and the status of the console access and MFA.

Resumen		
ARN	Acceso a la consola	Clave de acceso 1
arn:aws:iam::908171440641:user/Amplify-George	Desactivada	AKIA5G4Z4OI4WHEVZE2F - Active
Creado	Último inicio de sesión en la consola	Clave de acceso 2
June 20, 2023, 10:48 (UTC-06:00)	-	No habilitado

Inicio de sesión en la consola	
Enlace de inicio de sesión en la consola	Contraseña de la consola
https://908171440641.signin.aws.amazon.com/console	No habilitado

Autenticación multifactor (MFA) (0)

Paso 3. Configurar el Amplify CLI y como nombre de usuario es: **amplify**-[primer letra de nombre y primer apellido]. Por ejemplo, **amplify-george** Pega pantalla de evidencia

```
C:\Users\lapto\OneDrive\Escritorio\UTNG\GDGS3091\Desarrollo web integral\U3\Amplify>amplify configure
Follow these steps to set up access to your AWS account:

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

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

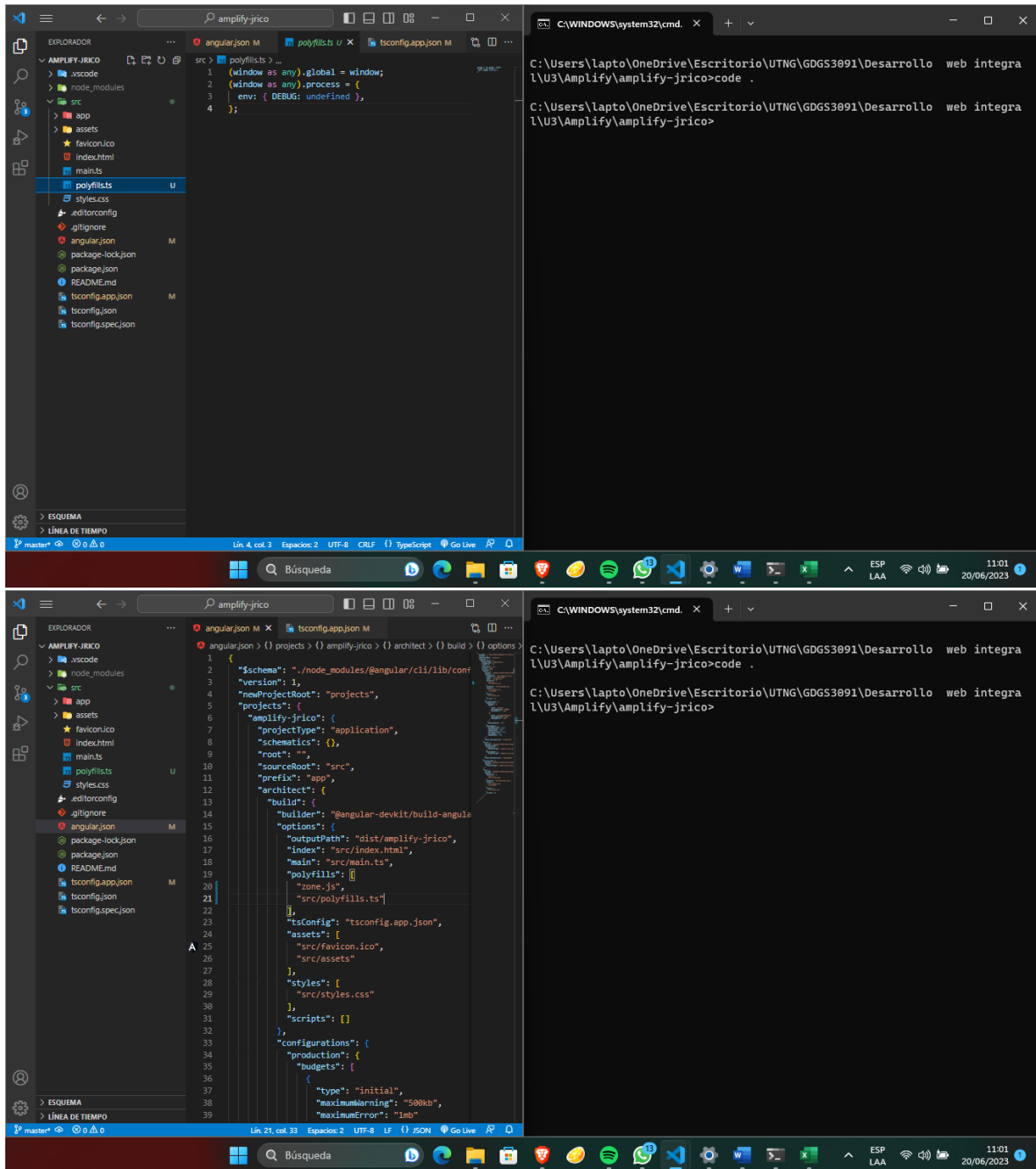
Enter the access key of the newly created user:
? accessKeyId: *****
? secretAccessKey: *****
This would update/create the AWS Profile in your local machine
? Profile Name: Amplify-George

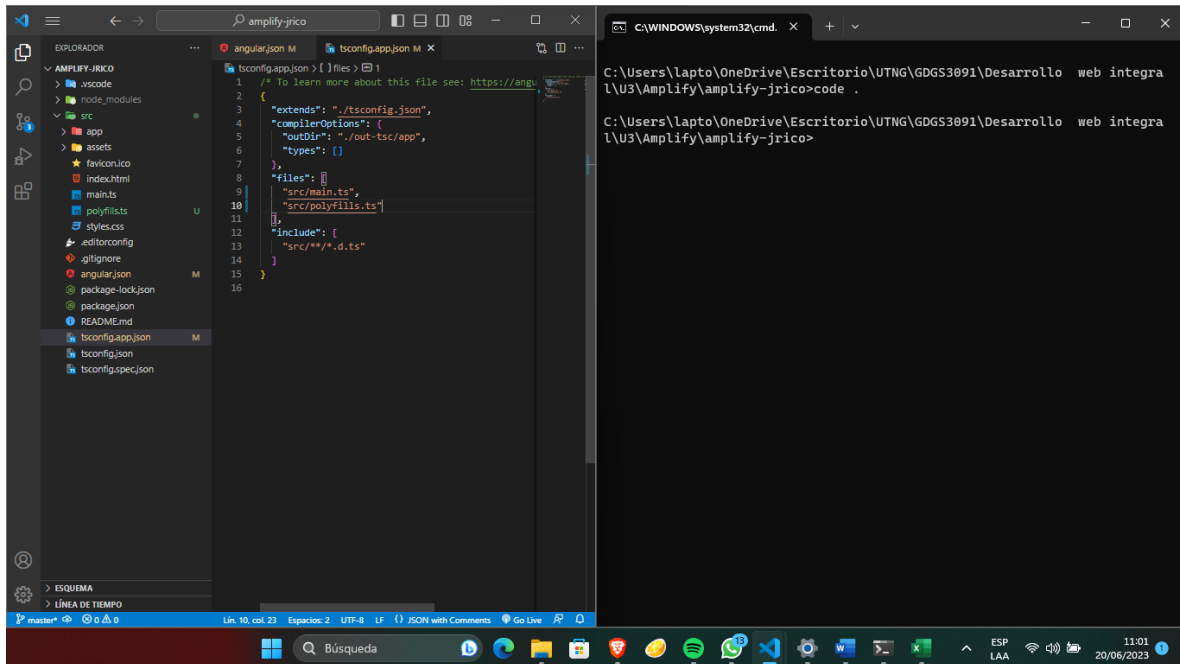
Successfully set up the new user.

C:\Users\lapto\OneDrive\Escritorio\UTNG\GDGS3091\Desarrollo web integral\U3\Amplify>
```

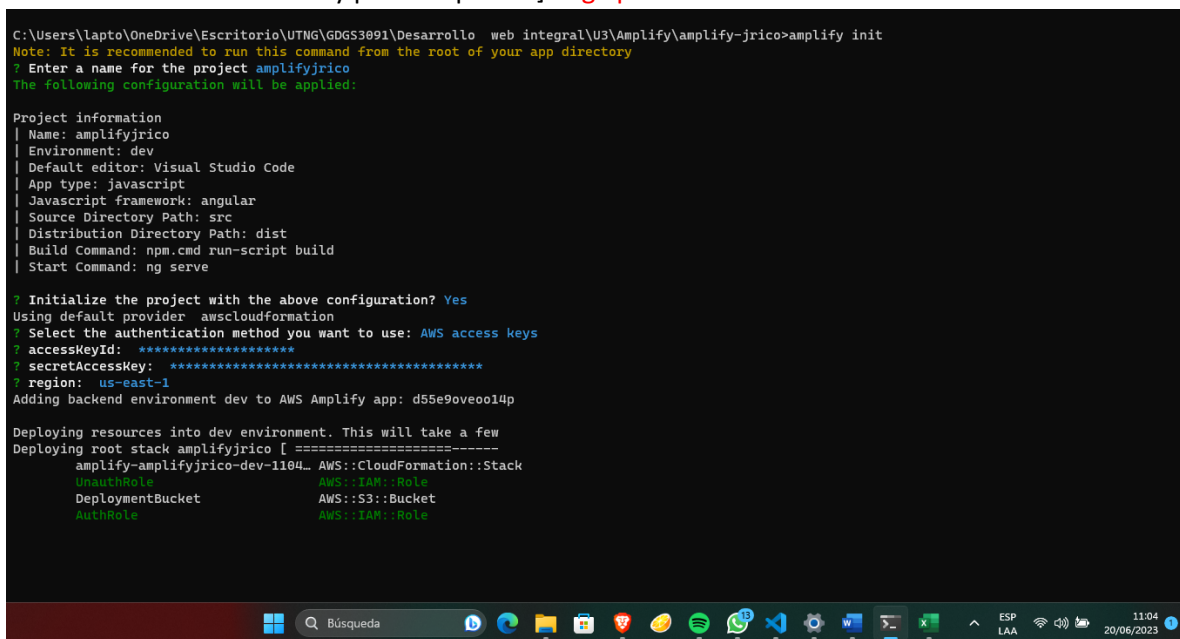
Paso 4. Crear un nuevo proyecto angular con el nombre: **amplify--**[primer letra de nombre y primer apellido]. Por ejemplo, **npm -p @angular/cli ng new amplify-gbarron** Pega pantalla de evidencia

```
C:\WINDOWS\system32\cmd. X + v
C:\Users\lapto\OneDrive\Escritorio\UTNG\GDGS3091\Desarrollo web integral\U3\Amplify>npm -p @angular/cli ng new amplify-jrico
? Would you like to add Angular routing? Yes
? Which stylesheet format would you like to use? CSS
CREATE amplify-jrico/angular.json (2735 bytes)
CREATE amplify-jrico/package.json (1044 bytes)
CREATE amplify-jrico/README.md (1066 bytes)
CREATE amplify-jrico/tsconfig.json (901 bytes)
CREATE amplify-jrico/.editorconfig (274 bytes)
CREATE amplify-jrico/.gitignore (548 bytes)
CREATE amplify-jrico/tsconfig.app.json (263 bytes)
CREATE amplify-jrico/tsconfig.spec.json (273 bytes)
CREATE amplify-jrico/.vscode/extensions.json (130 bytes)
CREATE amplify-jrico/.vscode/launch.json (470 bytes)
CREATE amplify-jrico/.vscode/tasks.json (938 bytes)
CREATE amplify-jrico/src/main.ts (214 bytes)
CREATE amplify-jrico/src/favicon.ico (948 bytes)
CREATE amplify-jrico/src/index.html (298 bytes)
CREATE amplify-jrico/src/styles.css (80 bytes)
CREATE amplify-jrico/src/app/app-routing.module.ts (245 bytes)
CREATE amplify-jrico/src/app/app.module.ts (393 bytes)
CREATE amplify-jrico/src/app/app.component.html (23115 bytes)
CREATE amplify-jrico/src/app/app.component.spec.ts (1012 bytes)
CREATE amplify-jrico/src/app/app.component.ts (217 bytes)
CREATE amplify-jrico/src/app/app.component.css (0 bytes)
CREATE amplify-jrico/src/assets/.gitkeep (0 bytes)
/ Packages installed successfully.
warning: in the working copy of '.editorconfig', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of '.gitignore', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of '.vscode/extensions.json', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of '.vscode/launch.json', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of '.vscode/tasks.json', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'angular.json', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'package-lock.json', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'package.json', LF will be replaced by CRLF the next time Git touches it
```





Paso 5. Crear un **Amplify Backend**, ingresar el nombre del proyecto: **amplify--**[primer letra de nombre y primer apellido] **Pega pantalla de evidencia**



```
C:\WINDOWS\system32\cmd. x + v

? Initialize the project with the above configuration? Yes
Using default provider awscloudformation
? Select the authentication method you want to use: AWS access keys
? accessKeyId: *****
? secretAccessKey: *****
? region: us-east-1
Adding backend environment dev to AWS Amplify app: d55e90veo014p

Deployment completed.
Deploying root stack amplifyjrico [ ===== ]
  amplify-amplifyjrico-dev-1104... AWS::CloudFormation::Stack
    UnauthRole          AWS::IAM::Role
    DeploymentBucket    AWS::S3::Bucket
    AuthRole            AWS::IAM::Role

? Help improve Amplify CLI by sharing non sensitive configurations on failures (y/N) · yes
Deployment state saved successfully.
? Initialized provider successfully.
✓ Initialized your environment successfully.

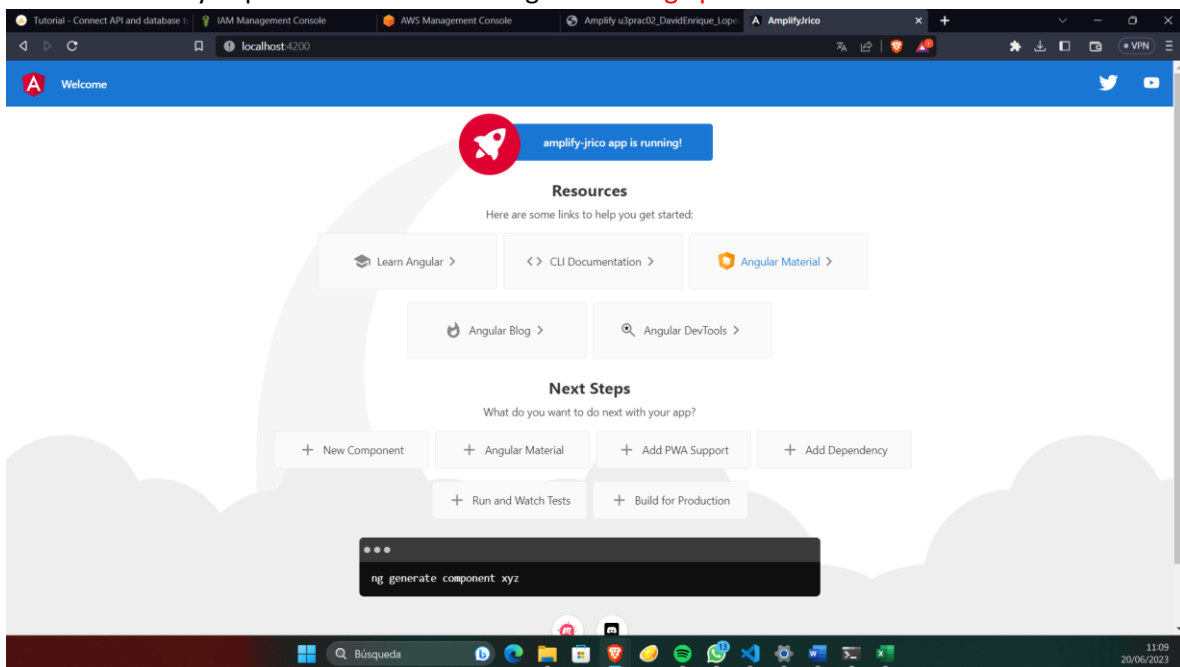
Your project has been successfully initialized and connected to the cloud!

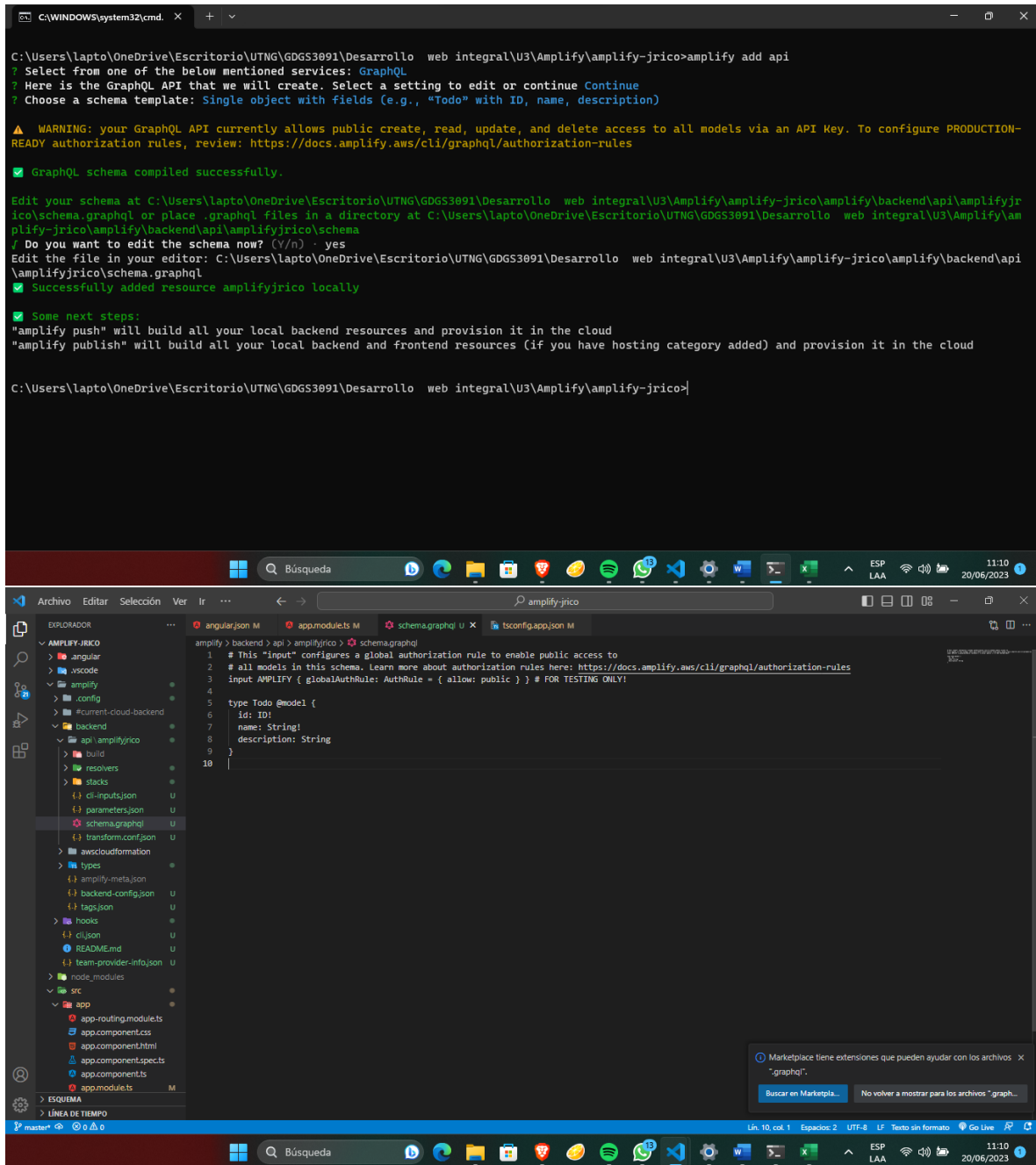
Some next steps:
"amplify status" will show you what you've added already and if it's locally configured or deployed
"amplify add <category>" will allow you to add features like user login or a backend API
"amplify push" will build all your local backend resources and provision it in the cloud
"amplify console" to open the Amplify Console and view your project status
"amplify publish" will build all your local backend and frontend resources (if you have hosting category added) and provision it in the cloud

Pro tip:
Try "amplify add api" to create a backend API and then "amplify push" to deploy everything

C:\Users\lapto\OneDrive\Escritorio\UTNG\GDGS3091\Desarrollo web integral\U3\Amplify\amplify-jrico>
```

Paso 6. Conecta con la base de datos **GraphQL**, pegar pantalla donde insertes restaurantes y lo puedas ver en dos navegadores. **Pega pantalla de evidencia**





The image shows a Windows terminal window and a VS Code editor window. The terminal window displays the output of the `amplify add api` command. It prompts the user to select a service (GraphQL), choose a schema template (Single object with fields), and edit the schema. The schema is defined as follows:

```
type Todo @model {
  id: ID!
  name: String!
  description: String
}
```

The terminal also shows the successful compilation of the GraphQL schema and the addition of the resource `amplifyjrico` locally. The VS Code editor shows the file explorer with the project structure, including the `amplifyjrico` directory. The editor also displays the `schema.graphql` file with the same schema definition.

```
C:\Users\lapto\OneDrive\Escritorio\UTNG\GDGS3091\Desarrollo web integral\U3\Amplify\amplify-jrico>amplify add api
? Select from one of the below mentioned services: GraphQL
? Here is the GraphQL API that we will create. Select a setting to edit or continue Continue
? Choose a schema template: Single object with fields (e.g., "Todo" with ID, name, description)

⚠ 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\lapto\OneDrive\Escritorio\UTNG\GDGS3091\Desarrollo web integral\U3\Amplify\amplify-jrico\amplify\backend\api\amplifyjrico\schema.graphql or place .graphql files in a directory at C:\Users\lapto\OneDrive\Escritorio\UTNG\GDGS3091\Desarrollo web integral\U3\Amplify\amplify-jrico\amplify\backend\api\amplifyjrico\schema
/ Do you want to edit the schema now? (Y/n) · yes
Edit the file in your editor: C:\Users\lapto\OneDrive\Escritorio\UTNG\GDGS3091\Desarrollo web integral\U3\Amplify\amplify-jrico\amplify\backend\api\amplifyjrico\schema.graphql
✔ Successfully added resource amplifyjrico locally

✔ Some next steps:
"amplify push" will build all your local backend resources and provision it in the cloud
"amplify publish" will build all your local backend and frontend resources (if you have hosting category added) and provision it in the cloud

C:\Users\lapto\OneDrive\Escritorio\UTNG\GDGS3091\Desarrollo web integral\U3\Amplify\amplify-jrico>
```

The VS Code editor shows the file explorer with the project structure, including the `amplifyjrico` directory. The editor also displays the `schema.graphql` file with the same schema definition.

```
amplify > backend > api > amplifyjrico > schema.graphql
1 # This "input" configures a global authorization rule to enable public access to
2 # all models in this schema. Learn more about authorization rules here: https://docs.amplify.aws/cli/graphql/authorization-rules
3 input AMPLIFY ( globalAuthRule: AuthRule = { allow: public } ) # FOR TESTING ONLY!
4
5 type Todo @model {
6   id: ID!
7   name: String!
8   description: String
9 }
10
```

```

C:\WINDOWS\system32\cmd. x + v

? Enter the file name pattern of graphql queries, mutations and subscriptions src/
C:\Users\lapto\OneDrive\Escritorio\UTNG\GDGS3091\Desarrollo web integral\U3\Amplify\amplify-jrico>amplify push
| Fetching updates to backend environment: dev from the cloud.
▲ 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/amplifyjrico ✓ GraphQL schema compiled successfully.

Edit your schema at C:\Users\lapto\OneDrive\Escritorio\UTNG\GDGS3091\Desarrollo web integral\U3\Amplify\amplify-jrico\amplify\backend\api\amplifyjrico\schema.graphql or place .graphql files in a directory at C:\Users\lapto\OneDrive\Escritorio\UTNG\GDGS3091\Desarrollo web integral\U3\Amplify\amplify-jrico\amplify\backend\api\amplifyjrico\schema
/ Successfully pulled backend environment dev from the cloud.
\ Building resource api/amplifyjrico
▲ 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/amplifyjrico ✓ GraphQL schema compiled successfully.

Edit your schema at C:\Users\lapto\OneDrive\Escritorio\UTNG\GDGS3091\Desarrollo web integral\U3\Amplify\amplify-jrico\amplify\backend\api\amplifyjrico\schema.graphql or place .graphql files in a directory at C:\Users\lapto\OneDrive\Escritorio\UTNG\GDGS3091\Desarrollo web integral\U3\Amplify\amplify-jrico\amplify\backend\api\amplifyjrico\schema

Current Environment: dev



| Category | Resource name | Operation | Provider plugin   |
|----------|---------------|-----------|-------------------|
| Api      | amplifyjrico  | 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.

C:\WINDOWS\system32\cmd. x + v

▲ 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\lapto\OneDrive\Escritorio\UTNG\GDGS3091\Desarrollo web integral\U3\Amplify\amplify-jrico\amplify\backend\api\amplifyjrico\schema.graphql or place .graphql files in a directory at C:\Users\lapto\OneDrive\Escritorio\UTNG\GDGS3091\Desarrollo web integral\U3\Amplify\amplify-jrico\amplify\backend\api\amplifyjrico\schema
\ Building resource api/amplifyjrico
▲ 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/amplifyjrico ✓ GraphQL schema compiled successfully.

Edit your schema at C:\Users\lapto\OneDrive\Escritorio\UTNG\GDGS3091\Desarrollo web integral\U3\Amplify\amplify-jrico\amplify\backend\api\amplifyjrico\schema.graphql or place .graphql files in a directory at C:\Users\lapto\OneDrive\Escritorio\UTNG\GDGS3091\Desarrollo web integral\U3\Amplify\amplify-jrico\amplify\backend\api\amplifyjrico\schema
? Do you want to generate code for your newly created GraphQL API Yes
? Choose the code generation language target typescript
? Enter the file name pattern of graphql queries, mutations and subscriptions src/app/API.service.ts
? 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 amplifyjrico [ ----- ] 0/2
amplify-amplifyjrico-dev-1104_ AWS::CloudFormation::Stack UPDATE_IN_PROGRESS Tue Jun 20 2023 11:15:57..
apiamplifyjrico AWS::CloudFormation::Stack CREATE_IN_PROGRESS Tue Jun 20 2023 11:16:01..
Deploying api amplifyjrico [ ----- ] 3/6
GraphQLAPI AWS::AppSync::GraphQLApi CREATE_COMPLETE Tue Jun 20 2023 11:16:09..
GraphQLAPINONEDS95A13CF8 AWS::AppSync::DataSource CREATE_COMPLETE Tue Jun 20 2023 11:16:12..
GraphQLAPIDefaultApiKey215A46D_ AWS::AppSync::ApiKey CREATE_COMPLETE Tue Jun 20 2023 11:16:12..
GraphQLAPITransformerSchema3C_ AWS::AppSync::GraphQLSchema CREATE_IN_PROGRESS Tue Jun 20 2023 11:16:11..

```



```

/ Building resource api/amplifyjrico GraphQL schema compiled successfully.

Edit your schema at C:\Users\lapto\OneDrive\Escritorio\UTNG\GDGS3091\Desarrollo web integral\U3\Amplify\amplify-jrico\amplify-backend\api\amplifyjrico\schema.graphql or place .graphql files in a directory at C:\Users\lapto\OneDrive\Escritorio\UTNG\GDGS3091\Desarrollo web integral\U3\Amplify\amplify-jrico\amplify-backend\api\amplifyjrico\schema
? Do you want to generate code for your newly created GraphQL API Yes
? Choose the code generation language target typescript
? Enter the file name pattern of graphql queries, mutations and subscriptions src/app/API.service.ts
? 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

Deployment completed.
Deploying root stack amplifyjrico [ ===== ] 1/2
  amplify-amplifyjrico-dev-1104_ AWS::CloudFormation::Stack UPDATE_IN_PROGRESS Tue Jun 20 2023 11:15:57...
  apiamplifyjrico AWS::CloudFormation::Stack CREATE_COMPLETE Tue Jun 20 2023 11:17:37...
Deployed api amplifyjrico [ ===== ] 6/6
  GraphQLAPI AWS::AppSync::GraphQLApi CREATE_COMPLETE Tue Jun 20 2023 11:16:09...
  GraphQLAPIINONEDS95A13CF0 AWS::AppSync::DataSource CREATE_COMPLETE Tue Jun 20 2023 11:16:12...
  GraphQLAPIDefaultApiKey215A6D_ AWS::AppSync::ApiKey CREATE_COMPLETE Tue Jun 20 2023 11:16:12...
  GraphQLAPITransformerSchema3C_ AWS::AppSync::GraphQLSchema CREATE_COMPLETE Tue Jun 20 2023 11:16:24...
  Todo AWS::CloudFormation::Stack CREATE_IN_PROGRESS Tue Jun 20 2023 11:16:26...

/ Generated GraphQL operations successfully and saved at src/app
/ Code generated successfully and saved in file src/app/API.service.ts
Deployment state saved successfully.

GraphQL endpoint: https://16xqh5tkvzbfxno5mxbh7jvnuv.appsync-api.us-east-1.amazonaws.com/graphql
GraphQL API KEY: da2-jp4gy2734bf5znivcvt32ejfra

GraphQL transformer version: 2

C:\Users\lapto\OneDrive\Escritorio\UTNG\GDGS3091\Desarrollo web integral\U3\Amplify\amplify-jrico|

```

```
C:\WINDOWS\system32\cmd. X + v
apiamplifyjrico AWS::CloudFormation::Stack CREATE_COMPLETE Tue Jun 20 2023 11:17:37...
Deployed api amplifyjrico [ ===== ] 6/6
GraphQLAPI AWS::AppSync::GraphQLApi CREATE_COMPLETE Tue Jun 20 2023 11:16:09...
GraphQLAPINONEDS95A13CF0 AWS::AppSync::DataSource CREATE_COMPLETE Tue Jun 20 2023 11:16:12...
GraphQLAPIDefaultApiKey215A6D... AWS::AppSync::ApiKey CREATE_COMPLETE Tue Jun 20 2023 11:16:12...
GraphQLAPITransformerSchema3C... AWS::AppSync::GraphQLSchema CREATE_COMPLETE Tue Jun 20 2023 11:16:24...
Todo AWS::CloudFormation::Stack CREATE_IN_PROGRESS Tue Jun 20 2023 11:16:26...

/ Generated GraphQL operations successfully and saved at src\app
/ Code generated successfully and saved in file src\app\API.service.ts
Deployment state saved successfully.

GraphQL endpoint: https://l6zqh5tkyzbfxno5mxhh7jvnuv.appsync-api.us-east-1.amazonaws.com/graphql
GraphQL API KEY: da2-jp4gy2739bf5znivcv32ejfra

GraphQL transformer version: 2

C:\Users\lapto\OneDrive\Escritorio\UTNG\GDGS3091\Desarrollo web integral\U3\Amplify\amplify-jrico>amplify status

Current Environment: dev



| Category | Resource name | Operation | Provider plugin   |
|----------|---------------|-----------|-------------------|
| Api      | amplifyjrico  | No Change | awscloudformation |



GraphQL endpoint: https://l6zqh5tkyzbfxno5mxhh7jvnuv.appsync-api.us-east-1.amazonaws.com/graphql
GraphQL API KEY: da2-jp4gy2739bf5znivcv32ejfra

GraphQL transformer version: 2

C:\Users\lapto\OneDrive\Escritorio\UTNG\GDGS3091\Desarrollo web integral\U3\Amplify\amplify-jrico>
```

Archivo Editar Selección Ver Ir ... amplify-jrico

EXPLORADOR

- src
 - src
 - app
 - app-routing.modules
 - app.component.css
 - app.component.html
 - app.component.spec.ts
 - app.component.ts
 - app.module.ts
 - mutations
 - queries
 - subscriptions
 - assets
 - graphql
 - schema.json
 - aws-exports.ts
 - favicon.ico
 - index.html
 - main.ts
 - polyfills
 - styles.css
 - editorconfig
 - eslintignore
 - gitignore
 - graphqlconfig.yml
 - angular.json
 - package-lock.json
 - package.json
 - README.md
 - tsconfig.app.json
 - tsconfig.json
 - tsconfig.spec.json

main.ts

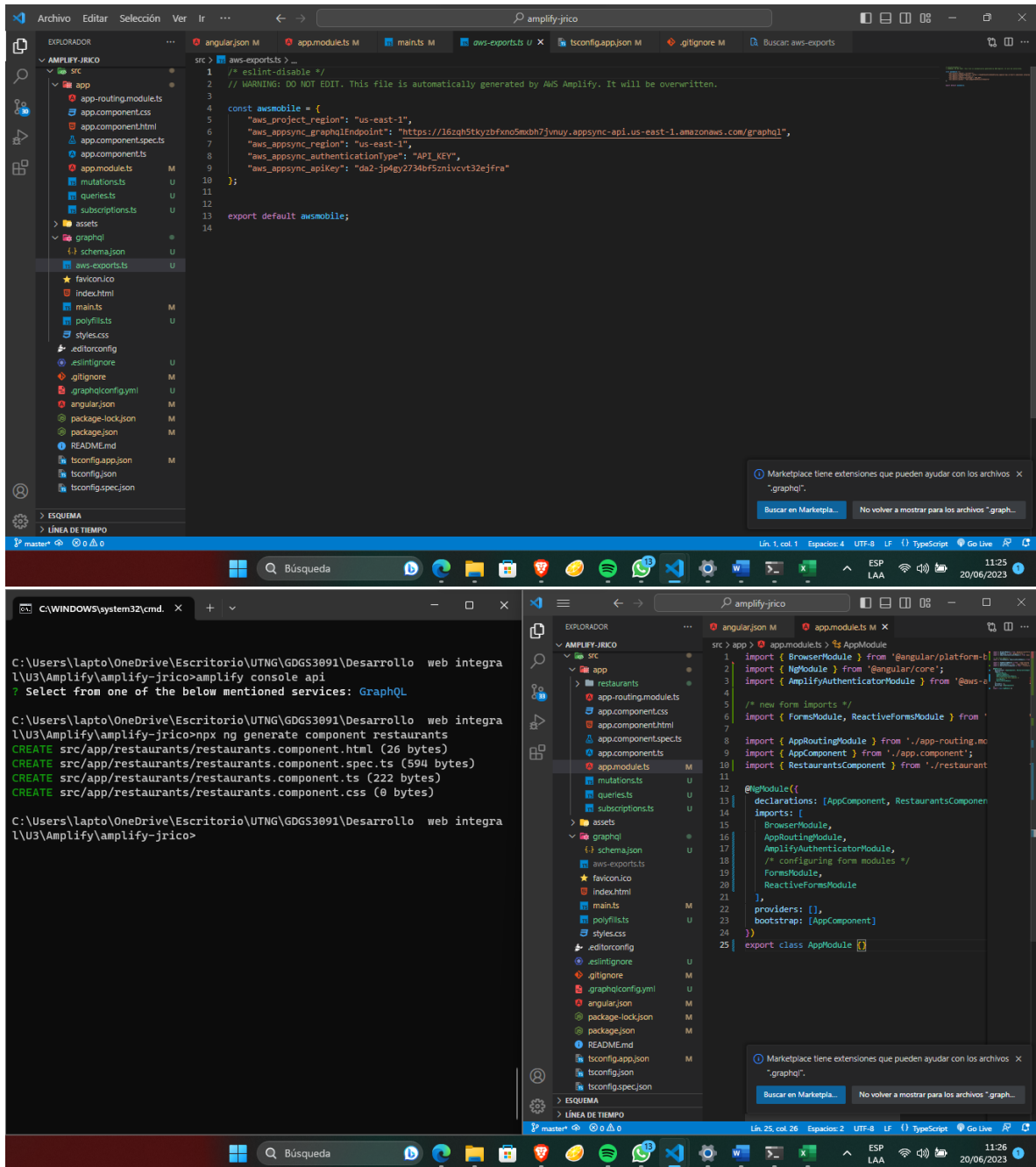
```
1 import { platformBrowserDynamic } from '@angular/platform-browser-dynamic';
2
3 import { AppModule } from './app/app.module';
4
5 import { Amplify } from 'aws-amplify';
6 import aws_exports from './aws-exports';
7 Amplify.configure(aws_exports);
8
9 platformBrowserDynamic().bootstrapModule(AppModule)
10 .catch(err => console.error(err));
11
```

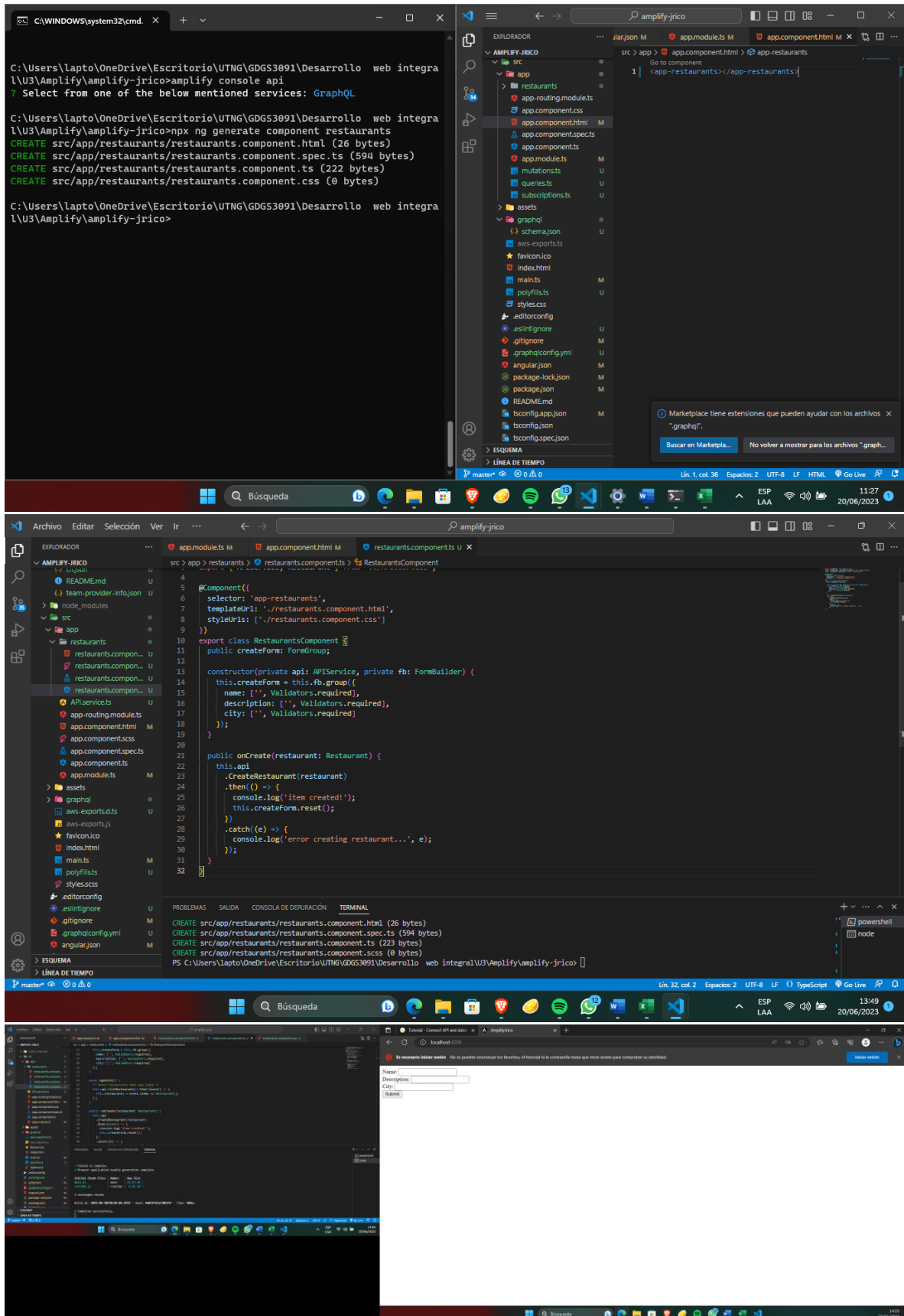
Marketplace tiene extensiones que pueden ayudar con los archivos "graphql".

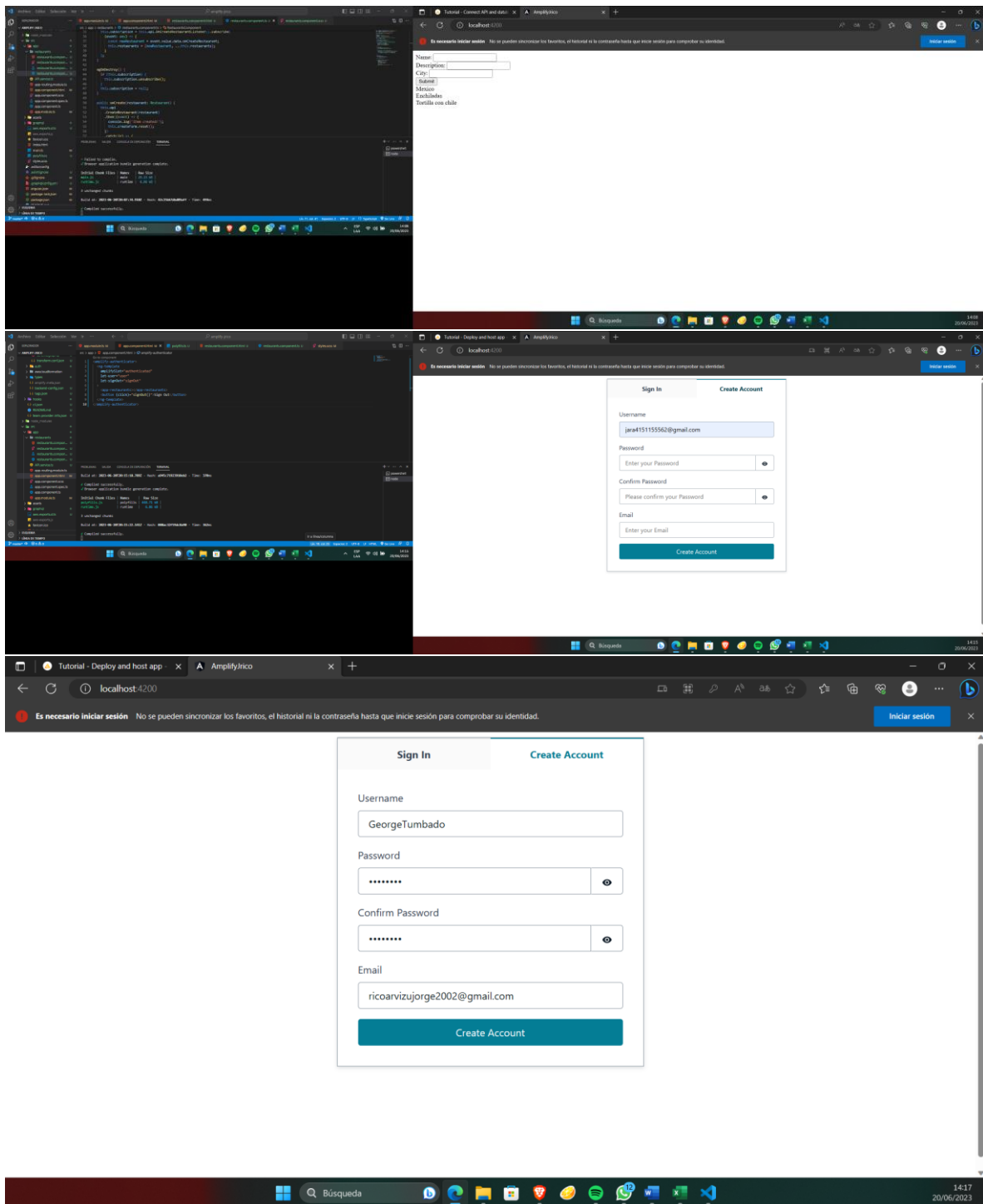
Buscar en Marketplace... No volver a mostrar para los archivos "graph..."

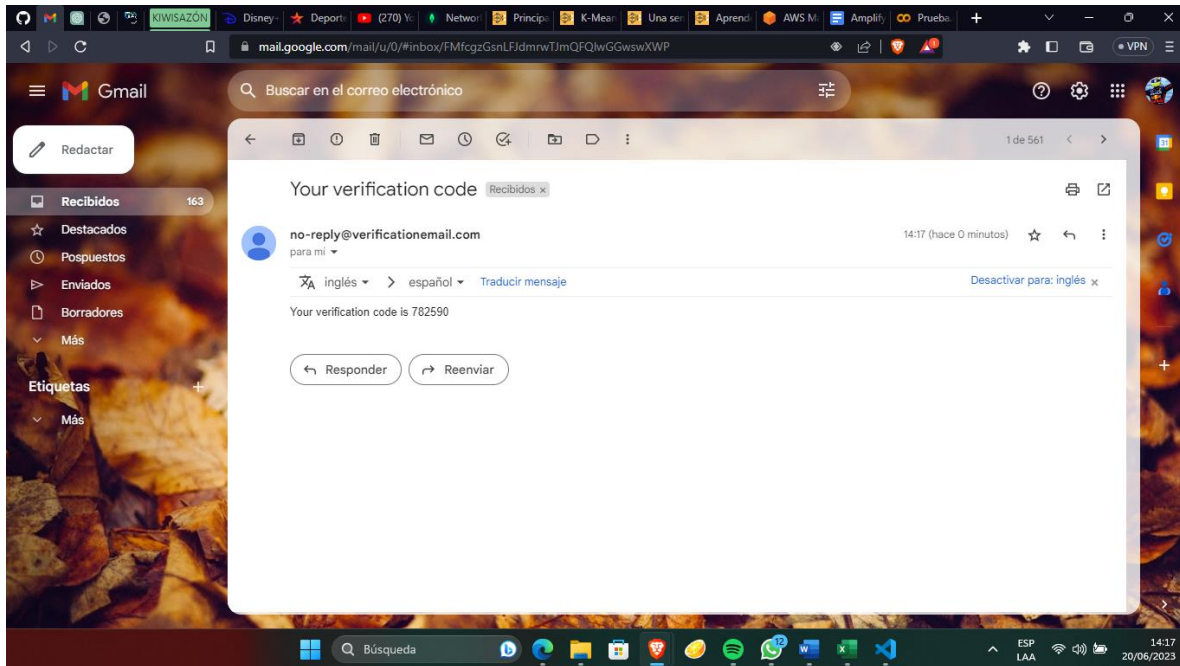
Unidad 3

Integración de componentes de software para aplicaciones Web

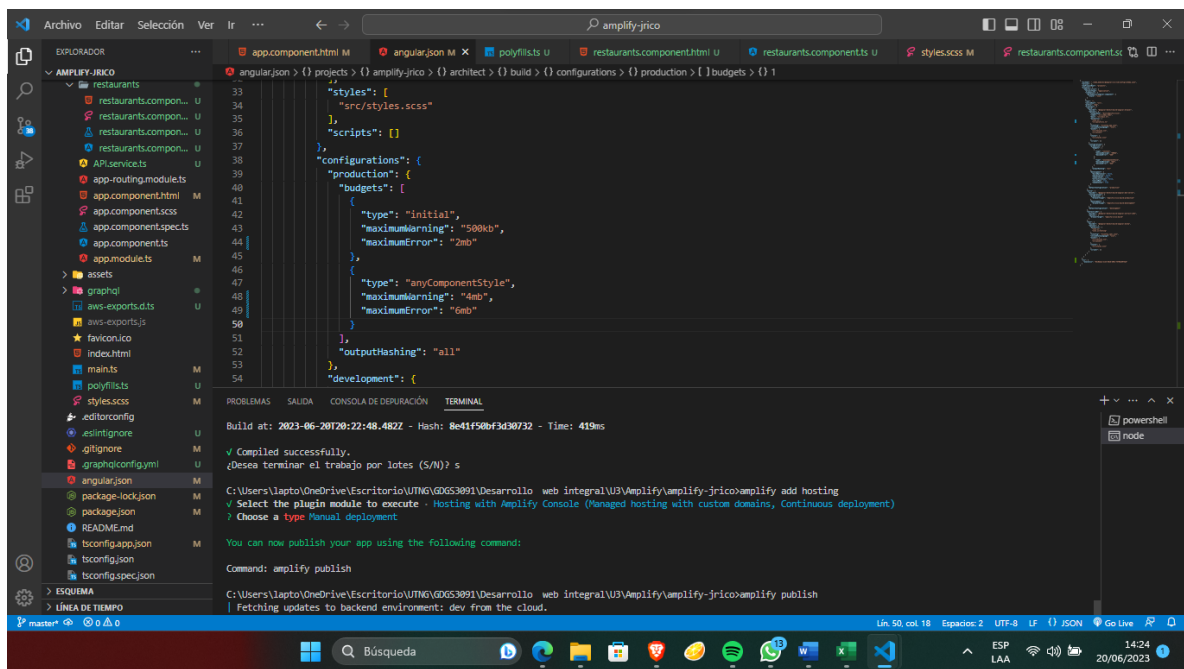








Paso 7. Despliega la aplicación y prueba con URL. Pega pantalla. **Pega pantalla de evidencia**



The image shows a terminal window with the following output:

```

plifyjrjico\schema
✓ Successfully pulled backend environment dev from the cloud.

Current Environment: dev

```

Category	Resource name	Operation	Provider plugin
Hosting	amplifyhosting	Create	awscloudformation
Api	amplifyjrjico	No Change	awscloudformation
Auth	amplifyjrjicocb5de5e8	No Change	awscloudformation

Are you sure you want to continue? (Y/n) »

The VS Code interface shows the project structure and the deployment progress. The terminal at the bottom displays the following output:

```

Deployment state saved successfully.
GraphQL transformer version: 2

```

The bottom of the terminal shows the command prompt: PS C:\Users\lapto\OneDrive\Escritorio\UTN6\GDG53091\Desarrollo web Integral\U3\Amplify\amplify-jrjico>

Paso 8. Responder a las siguientes preguntas

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

ANGULAR: Framework front-end

Amplify: Framework back-end

- ¿Cómo pudieras implementarlo en proyecto que estás desarrollando?

Pues a lo mejor solo para host

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

ACCESO A PAGINA

<https://dev.d3t4eox2qyywdn.amplifyapp.com/>