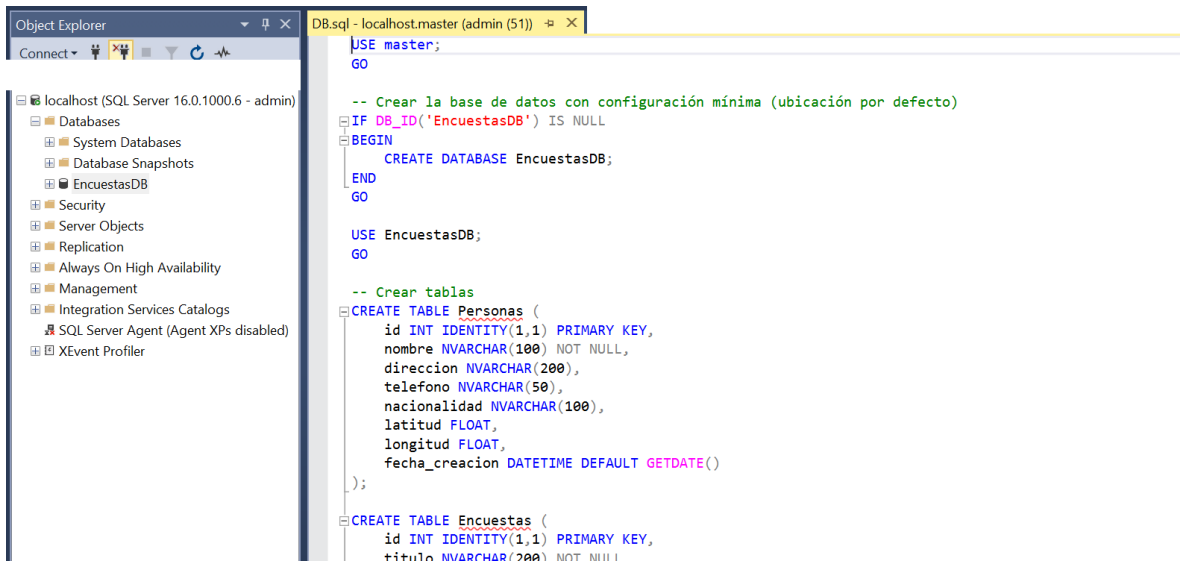


Paso a Paso.

1) Ejecutar Script de Base de datos.

DB.sql



The screenshot shows the SQL Server Enterprise Manager interface. On the left, the 'Object Explorer' pane displays the server structure for 'localhost (SQL Server 16.0.1000.6 - admin)'. The 'Databases' folder is expanded, showing 'EncuestasDB'. The main pane displays the SQL script 'DB.sql' with the following content:

```
USE master;
GO

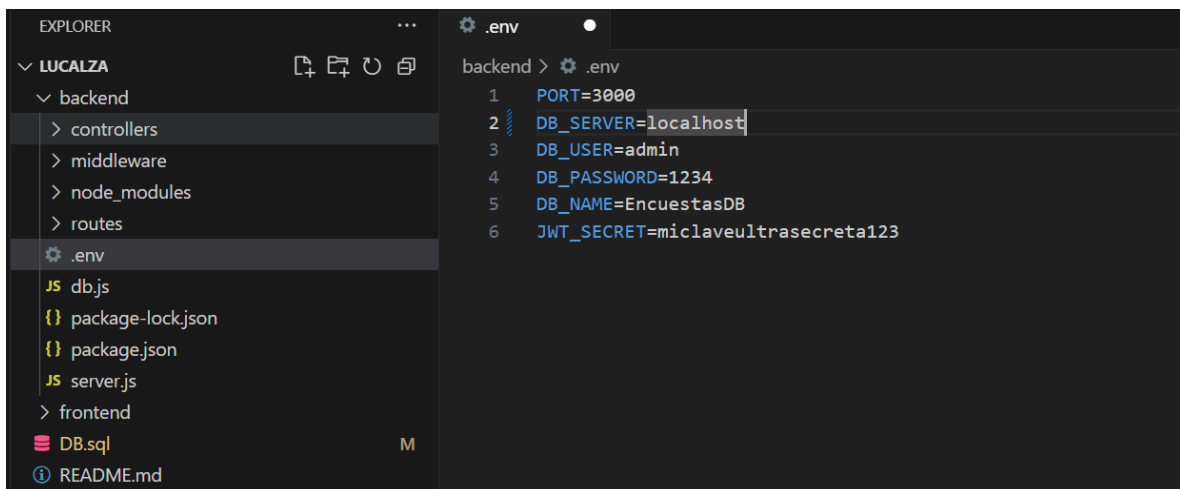
-- Crear la base de datos con configuración mínima (ubicación por defecto)
IF DB_ID('EncuestasDB') IS NULL
BEGIN
    CREATE DATABASE EncuestasDB;
END
GO

USE EncuestasDB;
GO

-- Crear tablas
CREATE TABLE Personas (
    id INT IDENTITY(1,1) PRIMARY KEY,
    nombre NVARCHAR(100) NOT NULL,
    direccion NVARCHAR(200),
    telefono NVARCHAR(50),
    nacionalidad NVARCHAR(100),
    latitud FLOAT,
    longitud FLOAT,
    fecha_creacion DATETIME DEFAULT GETDATE()
);

CREATE TABLE Encuestas (
    id INT IDENTITY(1,1) PRIMARY KEY,
    titulo NVARCHAR(200) NOT NULL
```

2) Configurar BackEnd. Esto según su configuración de motor de base de datos



The screenshot shows a code editor with a file explorer on the left and a code editor on the right. The file explorer shows the project structure for 'LUCALZA', with the 'backend' folder expanded. The 'backend' folder contains the following files and folders:

- controllers
- middleware
- node_modules
- routes
- .env
- db.js
- package-lock.json
- package.json
- server.js
- frontend
- DB.sql
- README.md

The code editor shows the content of the '.env' file, which contains the following configuration:

```
1 PORT=3000
2 DB_SERVER=localhost
3 DB_USER=admin
4 DB_PASSWORD=1234
5 DB_NAME=EncuestasDB
6 JWT_SECRET=miclaveultrasecreta123
```

3) Ejecutar npm install

```
C:\dev_web\Angular\lucalza\backend>npm install

up to date, audited 138 packages in 4s

27 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
```

4) Ejecutar el Backend

```
C:\dev_web\Angular\lucalza\backend>node server.js
Servidor corriendo en el puerto 3000
Conectado a SQL Server
```

5) Instalar npm install para frontend

```
C:\dev_web\Angular\lucalza\frontend>npm install
npm warn deprecated inflight@1.0.6: This module is not supported, and leaks memory. Do not use it. Check out lru-cache if
if you want a good and tested way to coalesce async requests by a key value, which is much more comprehensive and powerful
1.
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

added 1049 packages, and audited 1050 packages in 33s

169 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
```

6) Ejecutar FrontEnd (Angular) NG serve

```

C:\dev_web\Angular\lucalza\frontend>ng serve
Component HMR has been enabled.
If you encounter application reload issues, you can manually reload the page to bypass HMR and/or disable this feature with the '--no-hmr' command line option.
Please consider reporting any issues you encounter here: https://github.com/angular/angular-cli/issues

Browser bundles
Initial chunk files | Names          | Raw size
main.js             | main           | 99.95 kB |
polyfills.js        | polyfills      | 89.77 kB |
styles.css          | styles        | 13.15 kB |
                    | Initial total  | 202.87 kB

Server bundles
Initial chunk files | Names          | Raw size
polyfills.server.mjs | polyfills.server | 567.22 kB |
main.server.mjs     | main.server     | 101.27 kB |
server.mjs          | server          | 1.86 kB  |

Application bundle generation complete. [6.472 seconds]

Watch mode enabled. Watching for file changes...
NOTE: Raw file sizes do not reflect development server per-request transformations.
  Local: http://localhost:4200/
  press h + enter to show help

```

7) Comprobar la aplicación

Usuario = admin

Contraseña = 1234

← → ↺ ⓘ localhost:4200/login

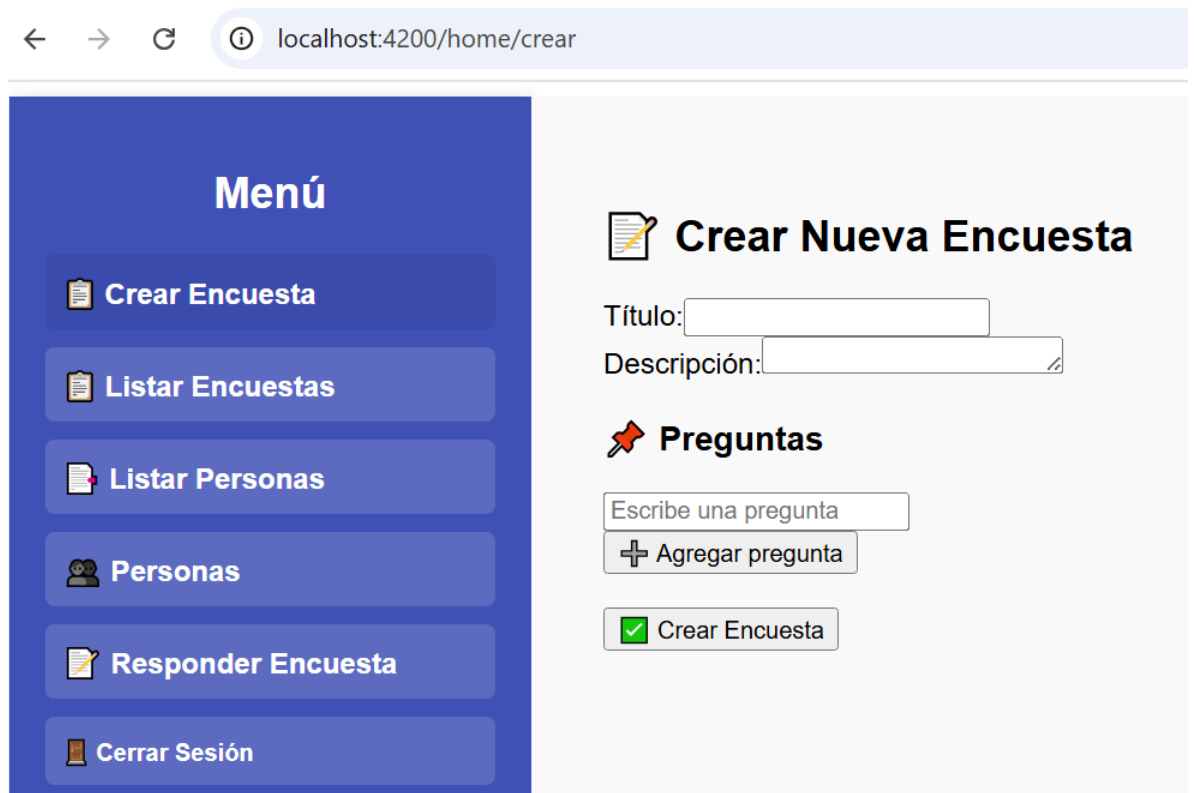
Iniciar Sesión

Usuario:

Contraseña:

Ingresar

8) Aplicación en Funcionamiento



Menú

Crear Encuesta

Listar Encuestas

Listar Personas

Personas

Responder Encuesta

Cerrar Sesión

Crear Nueva Encuesta

Nombre:

Dirección:

Teléfono:

Nacionalidad:

Ubicación detectada:

Lat: 14.5866107
Lng: -90.507102

+

-

Ubicación actual

Mark

RD GUA-21

RD GUA-40

Santa Catarina

Menú

Crear Encuesta

Listar Encuestas

Listar Personas

Personas

Responder Encuesta

Cerrar Sesión

Responder Encuesta

Selecciona Persona:

-- Selecciona --

Selecciona Encuesta:

-- Selecciona --