Contents

Middleware

REST API is created using ASP.NET core Web Api using .net 6 framework and using MS SQL Server database.

1. Requirements

- .Net 6
  Latest version of .NET 6 SDK and ASP.NET Core Runtime can be downloaded from https://dotnet.microsoft.com/en-us/download/dotnet/6.0
- Microsoft SQL Server
  SQL Server database is required for web api be functional.

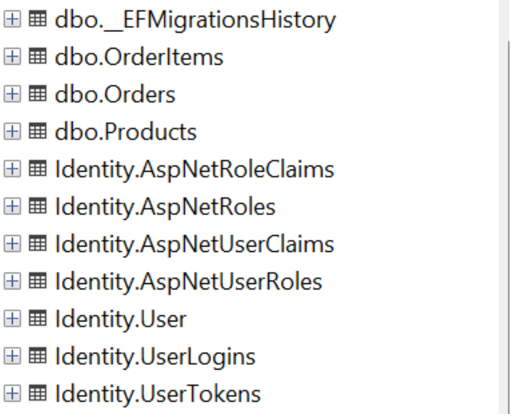
2. Data persistence

Application use MS SQL relational database.

Database Setup

REST API is using EF Core 6 code first which will create a database and its Tables.

Tables

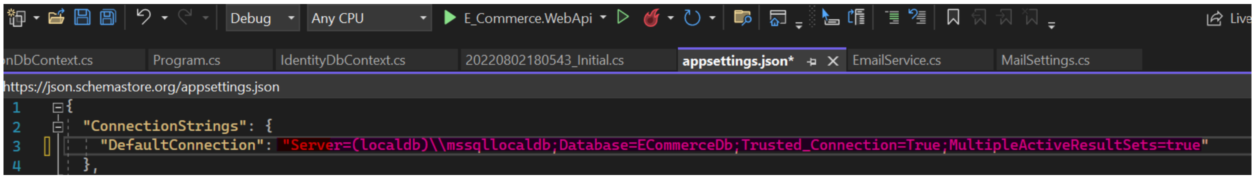


- dbo.__EFMigrationsHistory
- dbo.OrderItems
- dbo.Orders
- dbo.Products
- Identity.AspNetRoleClaims
- Identity.AspNetRoles
- Identity.AspNetUserClaims
- Identity.AspNetUserRoles
- Identity.User
- Identity.UserLogins
- Identity.UserTokens

Product Data.

Please run **product data.sql** file to populate product data

Please update connection string in **appsettings.json** file located in **E_Commerce.WebApi project** with correct values of your MS SQL Server

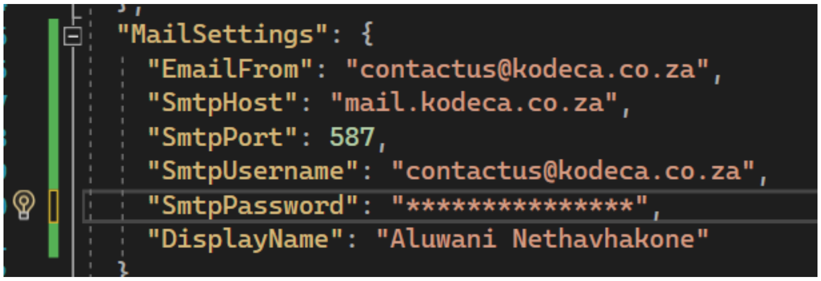


```
{
  "ConnectionStrings": {
    "DefaultConnection": "Server=(localdb)\\mssqllocaldb;Database=ECommerceDb;Trusted_Connection=True;MultipleActiveResultSets=true"
  },
```

3. Email Setting

REST API require email setting so it can able to send email to user, when user registered email confirmation with be send to active an account. When user do a checkout, an email will be sent to current login email address with order details.

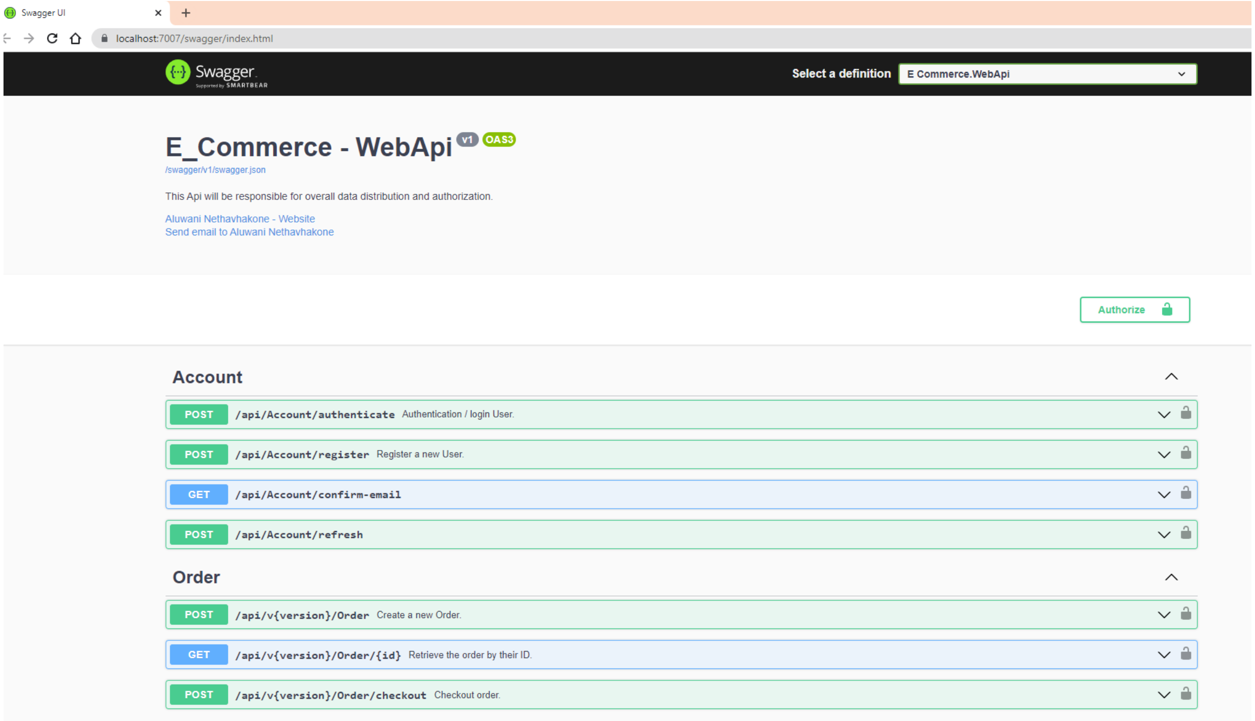
Please update email settings in **appsettings.json json** file located in **E_Commerce.WebApi project** as below screen



```
"MailSettings": {
  "EmailFrom": "contactus@kodeca.co.za",
  "SmtpHost": "mail.kodeca.co.za",
  "SmtpPort": 587,
  "SmtpUsername": "contactus@kodeca.co.za",
  "SmtpPassword": "***************",
  "DisplayName": "Aluwani Nethavhakone"
}
```

4. Start Application

Make sure in **E_Commerce.WebApi project is set as a startup project, you can run the application if run successfully you will see a swagger page with all endpoints**



E_Commerce - WebApi v1 OAS3

/swagger/v1/swagger.json

This Api will be responsible for overall data distribution and authorization.

Aluwani Nethavhakone - Website
Send email to Aluwani Nethavhakone

Account

POST /api/Account/authenticate Authentication / login User.
POST /api/Account/register Register a new User.
GET /api/Account/confirm-email
POST /api/Account/refresh

Order

POST /api/v{version}/Order Create a new Order.
GET /api/v{version}/Order/{id} Retrieve the order by their ID.
POST /api/v{version}/Order/checkout Checkout order.

Front-end

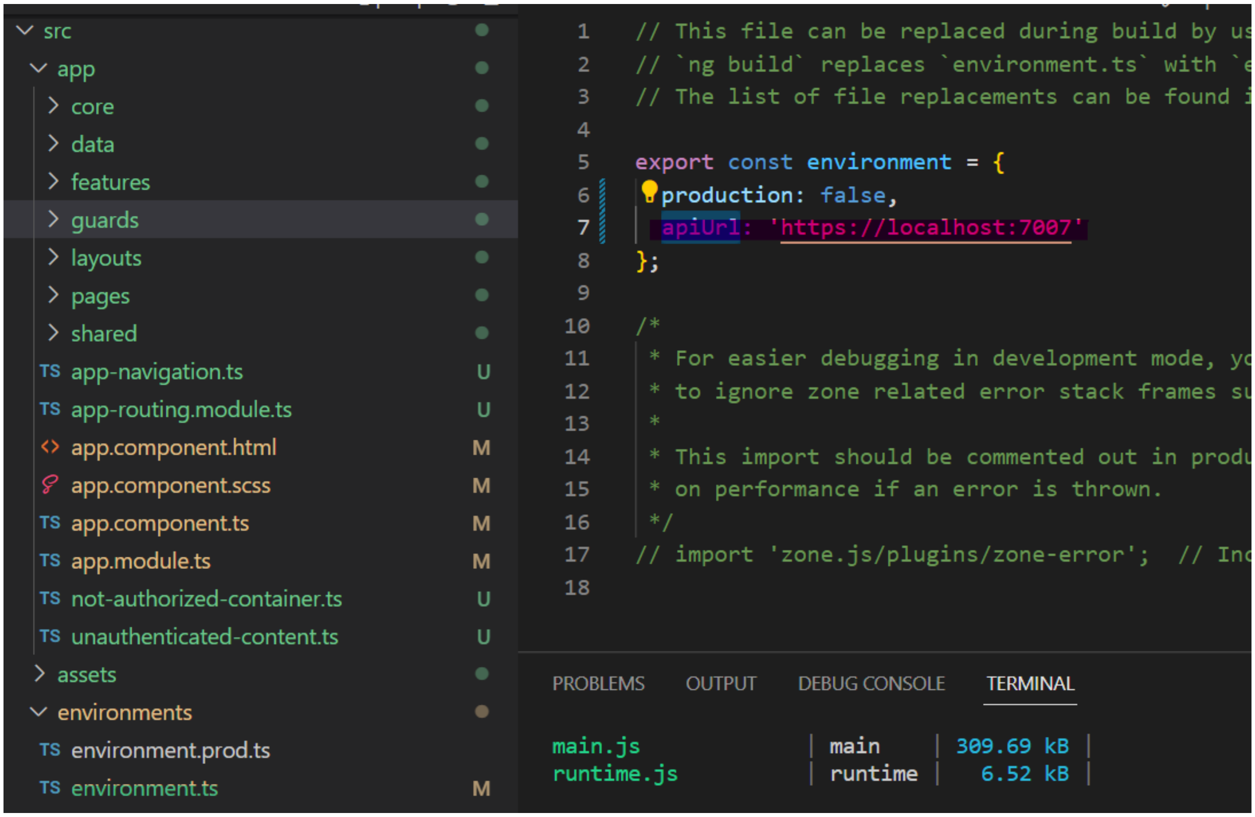
Frontend is build using Angular 13.

5. Requirement

- Node.js
  Angular requires an active LTS or maintenance LTS version of Node.js
- Angular CLI
  Before building the app, you need to have Angular CLI installed. you can get it through **npm install -g @angular/cli**
- npm package manager
  Once Node and Angular cli are install you can open ui project and run npm i to install all required packages for the project.

6. Environment REST API url

Front-end require api-url to communicate with REST API please update apiUrl in environment.ts file located in app/Environment

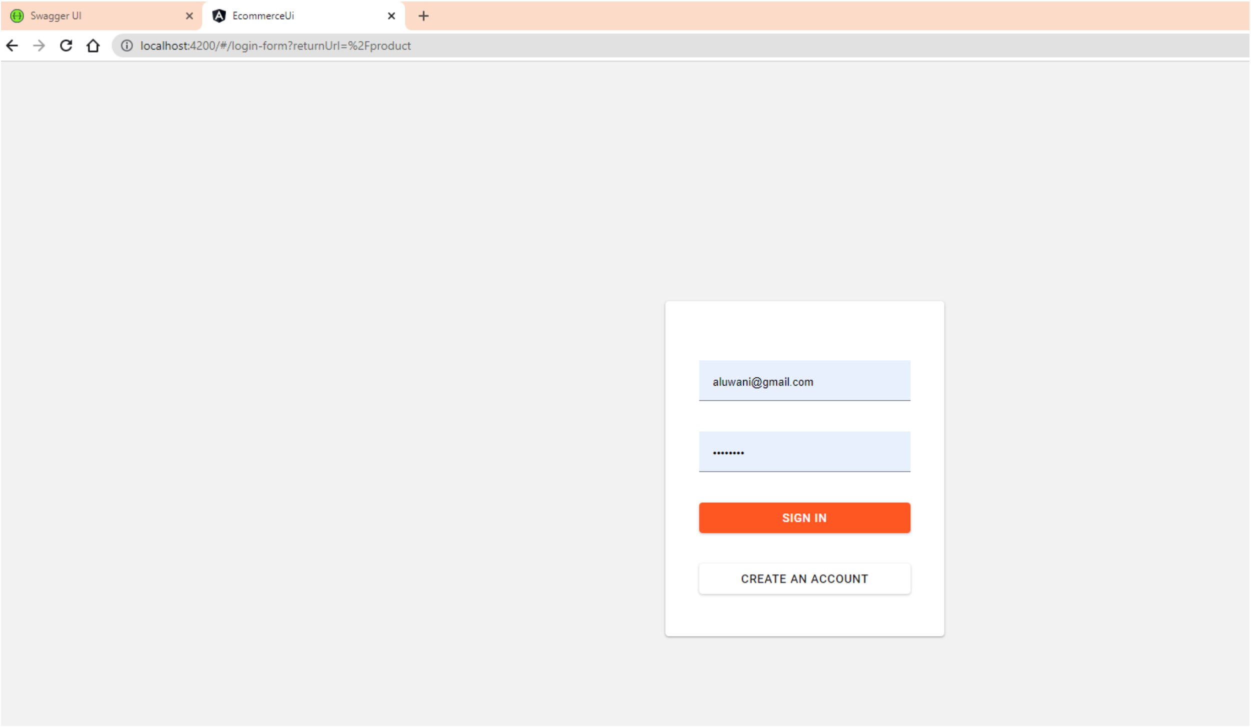


```
// This file can be replaced during build by us
// `ng build` replaces `environment.ts` with `e
// The list of file replacements can be found i

export const environment = {
  production: false,
  apiUrl: 'https://localhost:7007'
};

/*
 * For easier debugging in development mode, yo
 * to ignore zone related error stack frames su
 *
 * This import should be commented out in produ
 * on performance if an error is thrown.
 */
// import 'zone.js/plugins/zone-error';  // Inc
```

```
main.js       | main    | 309.69 kB |
runtime.js    | runtime |   6.52 kB |
```

7. Start Application

Run “npm run start” command to start the application, once complied successfully you can open your favorite browser and go to http://localhost:4200 which will open frontend UI.



Swagger UI
EcommerceUi
localhost:4200/#/login-form?returnUrl=%2Fproduct
aluwani@gmail.com
••••••••
SIGN IN
CREATE AN ACCOUNT