Create a simple ASP .NET MVC application in C# to manage invoices in any database system. The application should have the following features:

* creating/editing an invoice,
* adding/removing invoice items.

Another part of the application is to create a simple API. Access to API should be restricted by a secret key which is sent as a header value in the request.

Please prepare 3 endpoints which have following functionality:

* getting collection of unpaid invoices,
* paying invoice (changing status to paid),
* editing invoice (PATCH request).

# Setup

To run the application execute following commands in Nuget Packages Console.

* Add-migration Initial
* Update-database

Local db will now be created.

# Application usage

The user is able to manage suppliers, subscribers, invoices and its items.

## Creating invoice

To create the invoice first go to invoices. Click ‘Create new’. Invoice header will be created after submitting the filled form. To add invoice items go to ‘Details’. Here you can add items you’re invoicing.

## WebApi

Web api provides following endpoints:

* api/Invoices/ListUnpaidInvoices (GET)
* api/Invoices/ListInvoiceItems/[invoiceId] (GET)
* api/Invoices/PayInvoice/[invoiceId] (PUT)
* api/Invoices/EditInvoice (PATCH)
* api/Invoices/EditSingleInvoiceItems (PATCH)

To access the methods http request must contain following header:

Key: Authorization

Value: Basic U2VjcmV0S2V5

Value is Base64 encoded secret key defined in appsettings.json file.

Examples of request bodies are available in Jsons folder.