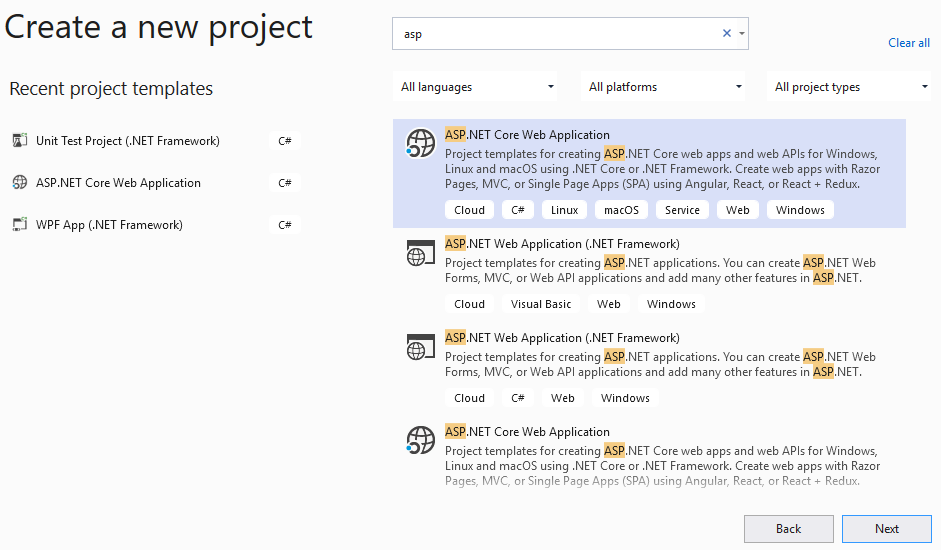
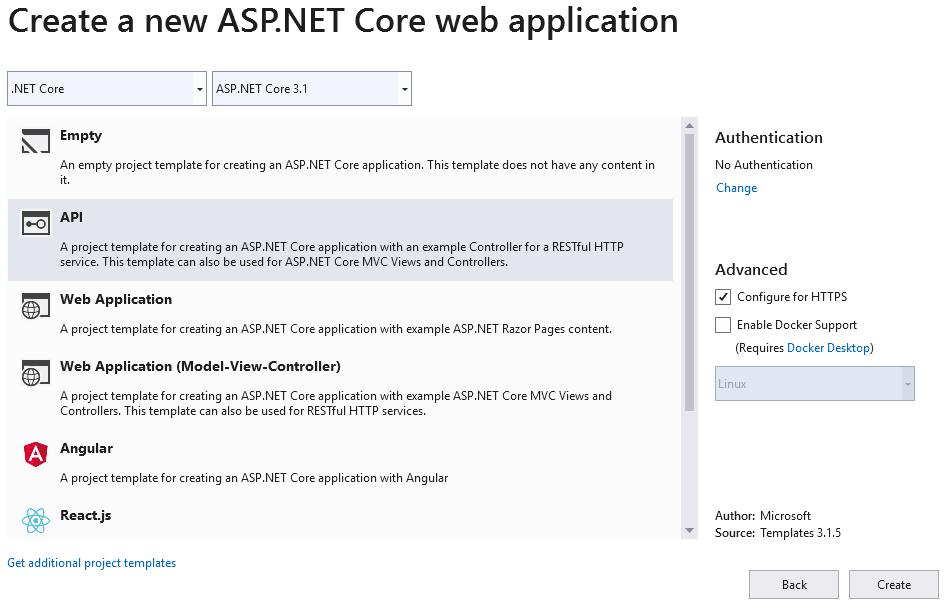
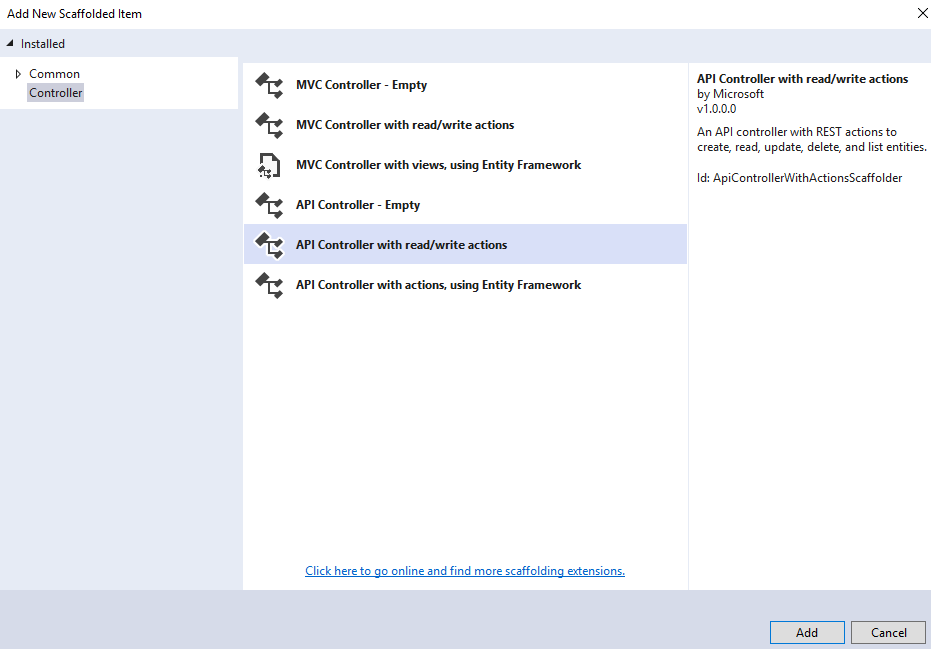
**FSD - FF**

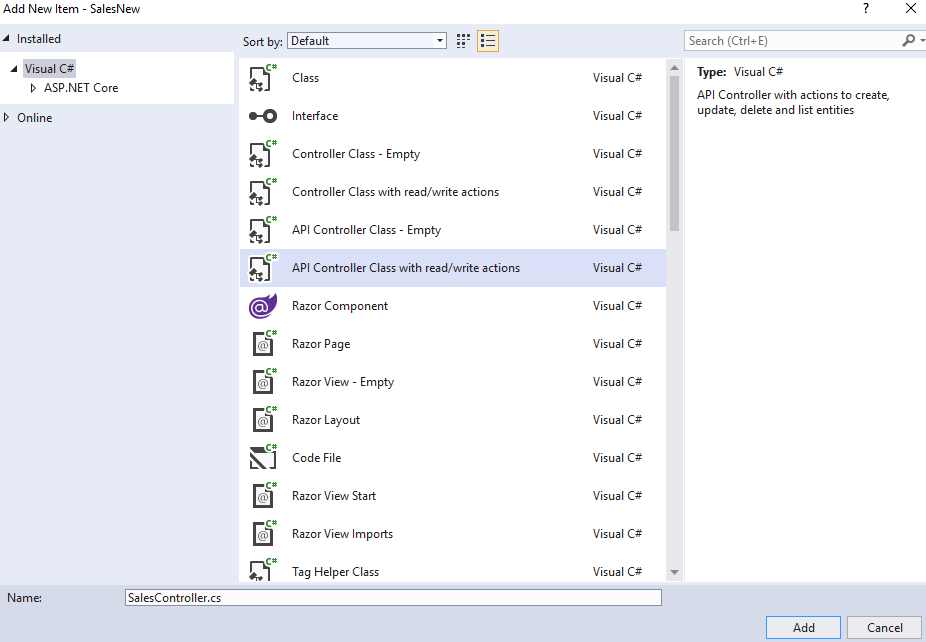
1. Create a Web API project in .Net core



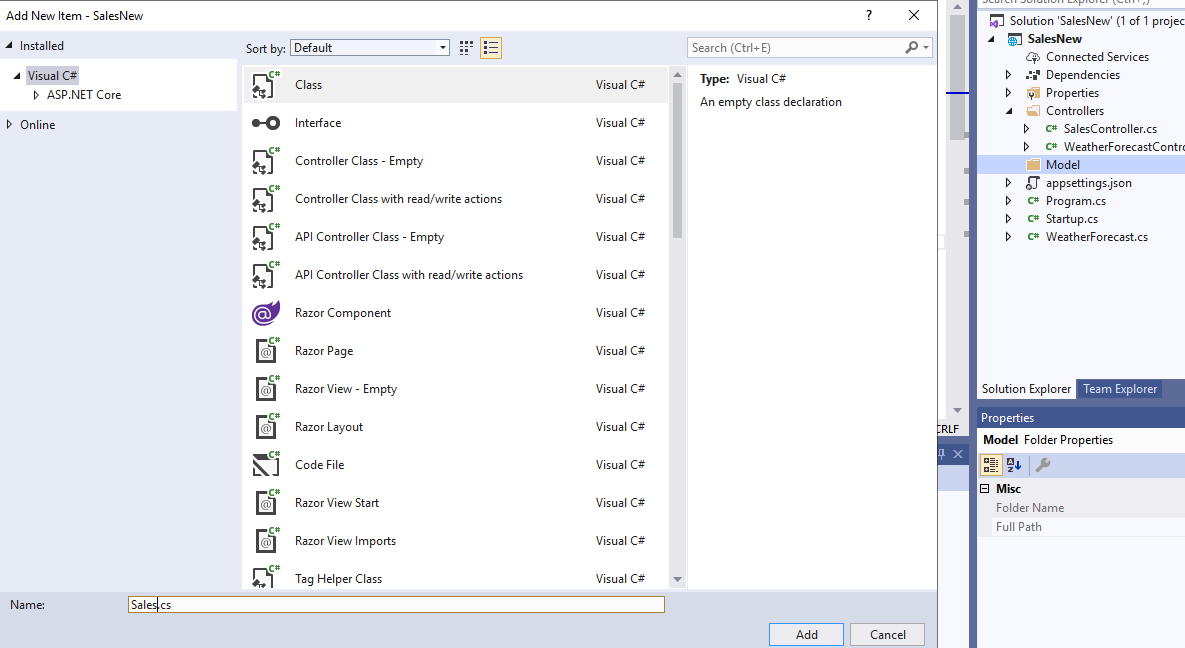


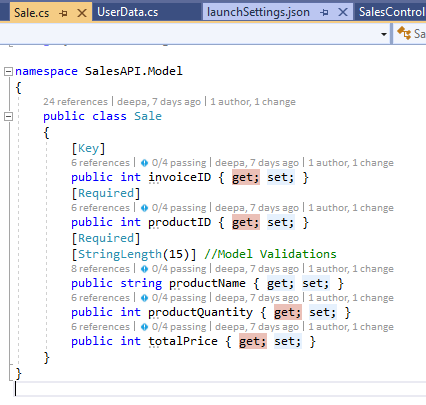
1. Create a controller with the CRUD operations.



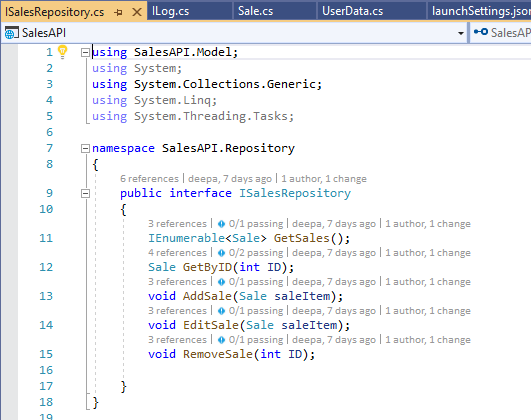


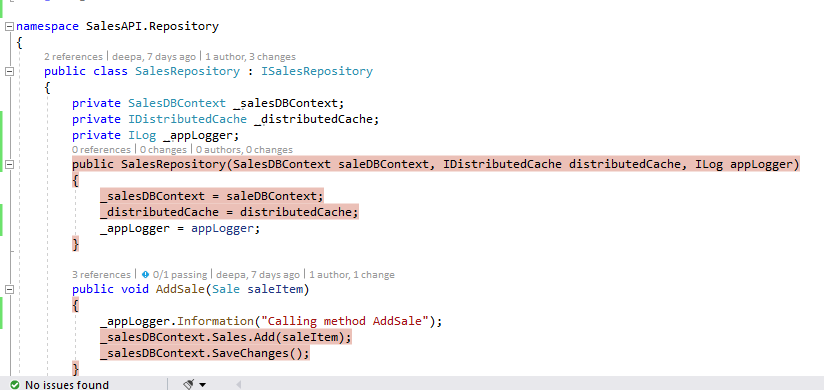
1. Create Model Class.



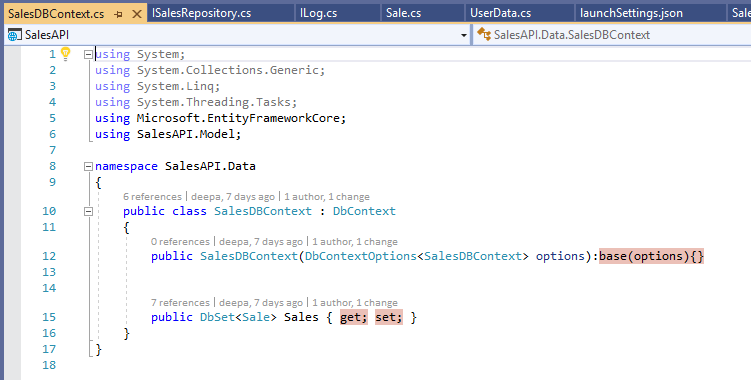


1. Create Repository classes.

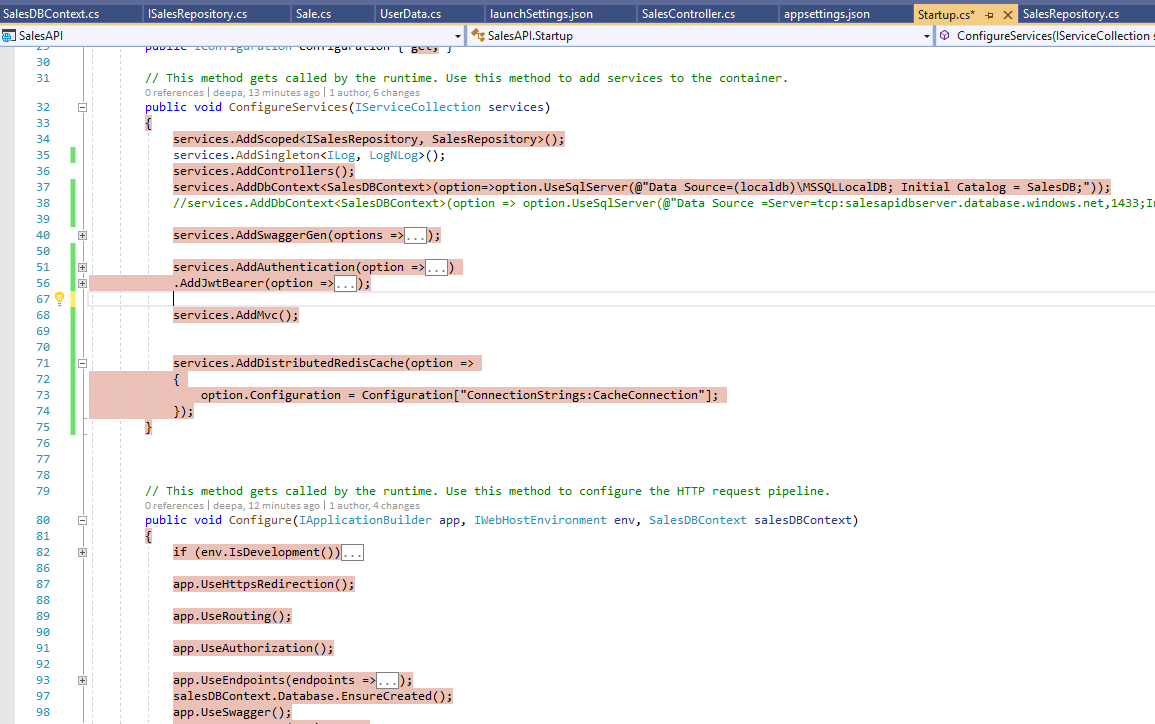


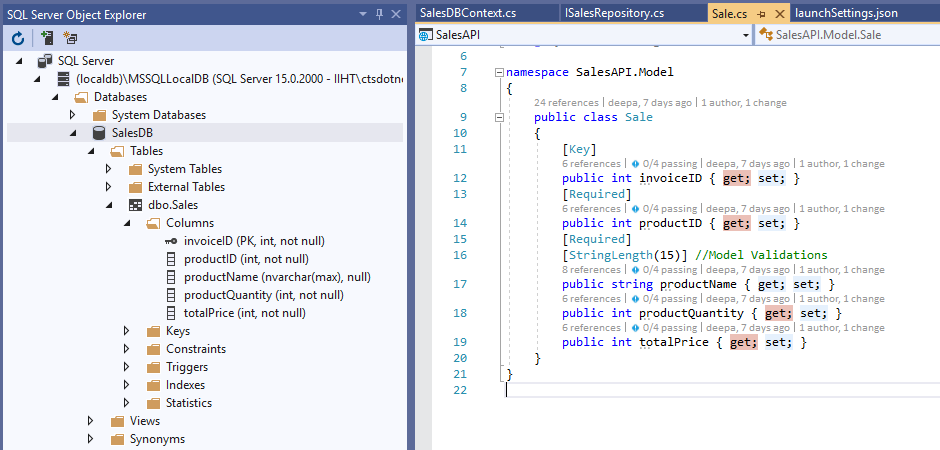


1. Create DBContext class

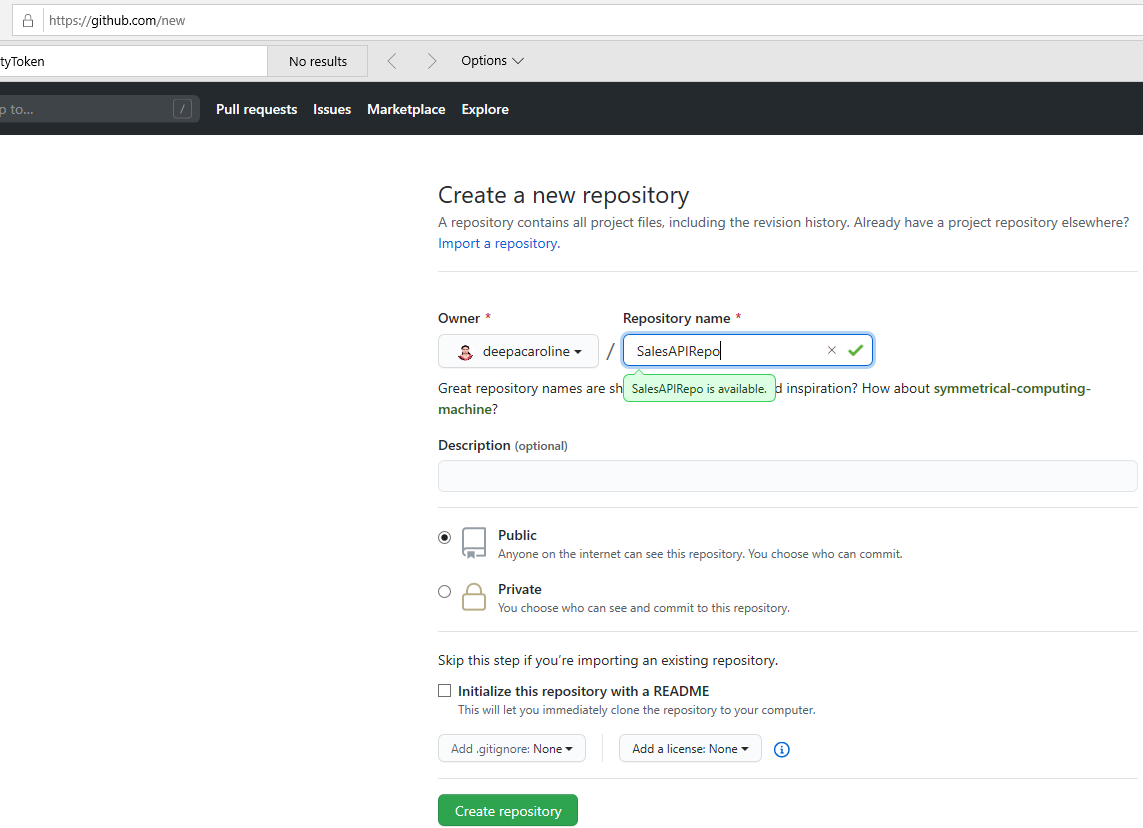


1. Modify the Start up, so that local SQL DB is created.

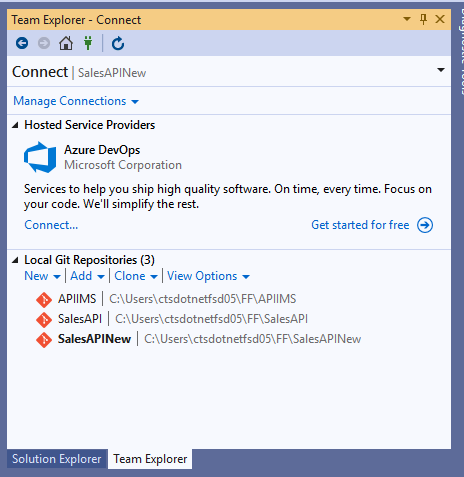


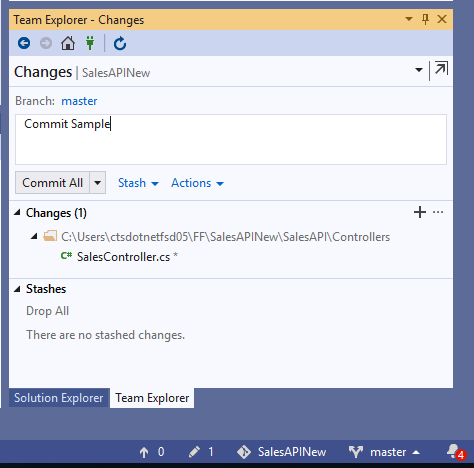


1. Include the project in Github.



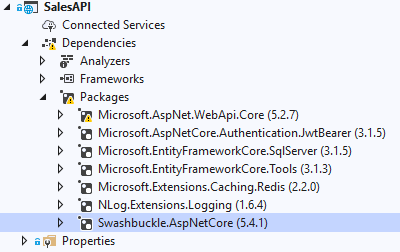
Connect and Clone to repo using VS Team Explorer



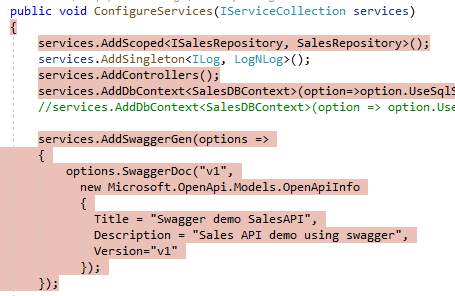


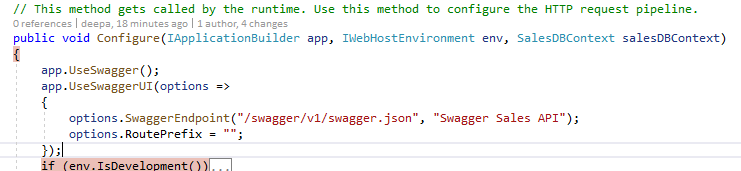
1. Include Swagger

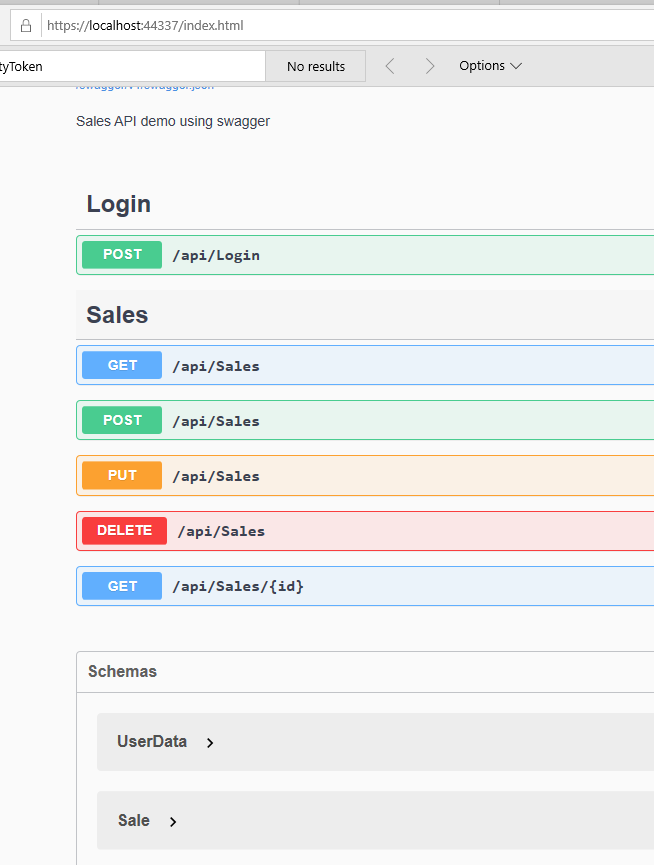
Add Nuget package “Swashbuckle”



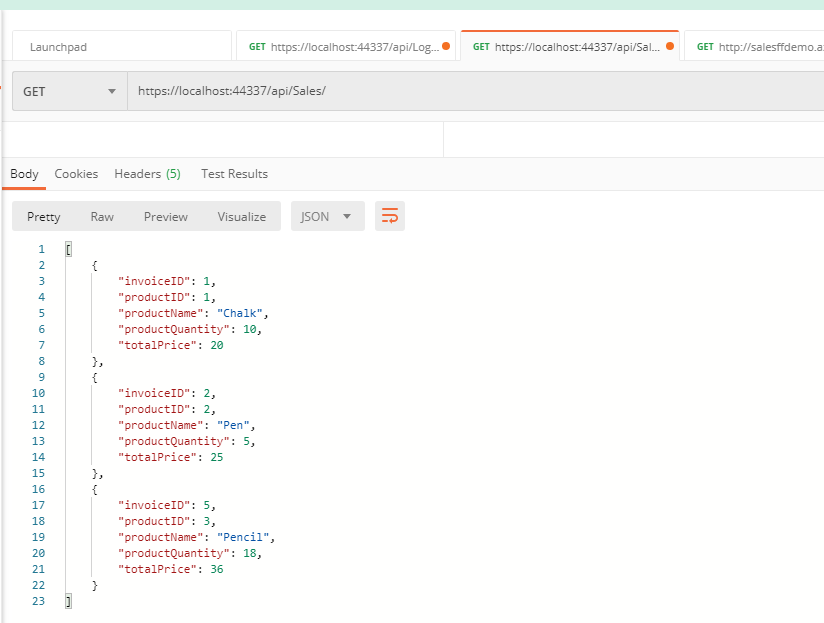
Configure swagger in startUp





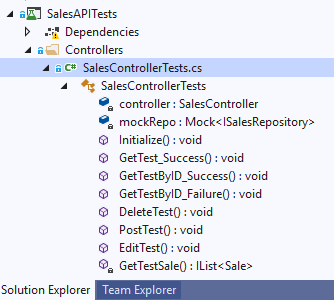


1. Test in postman

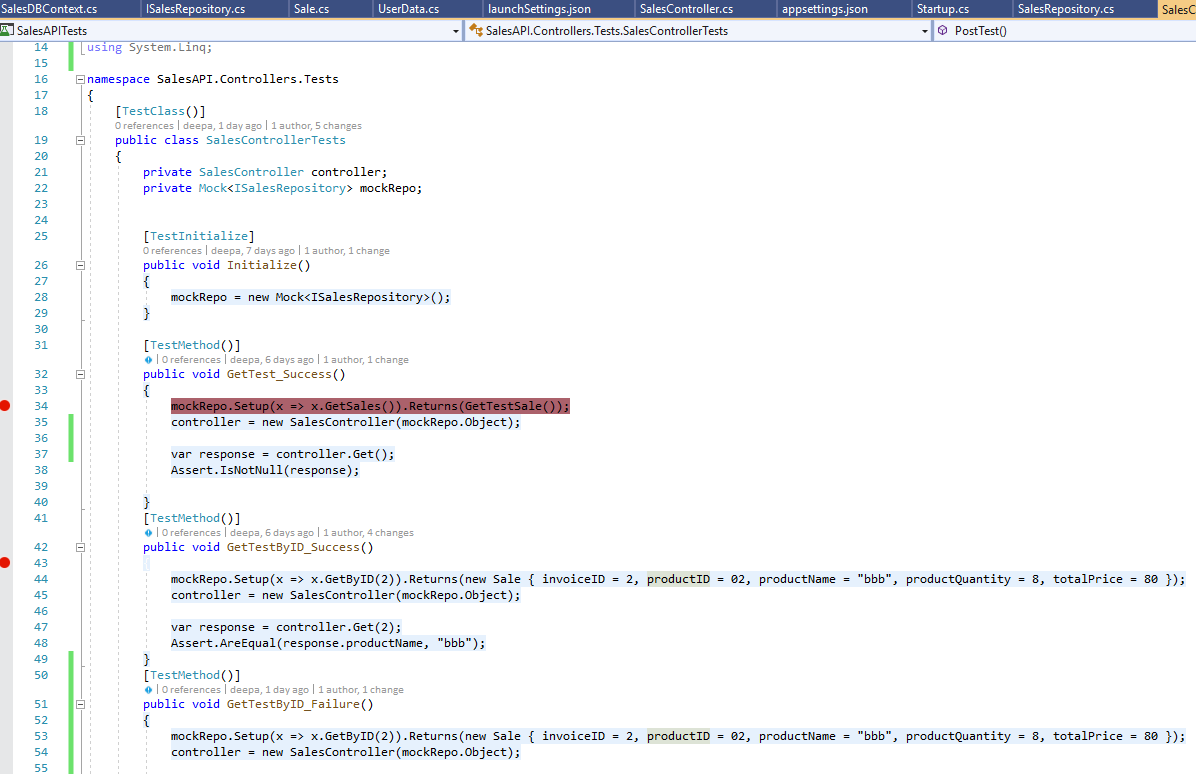


1. Create Nunit

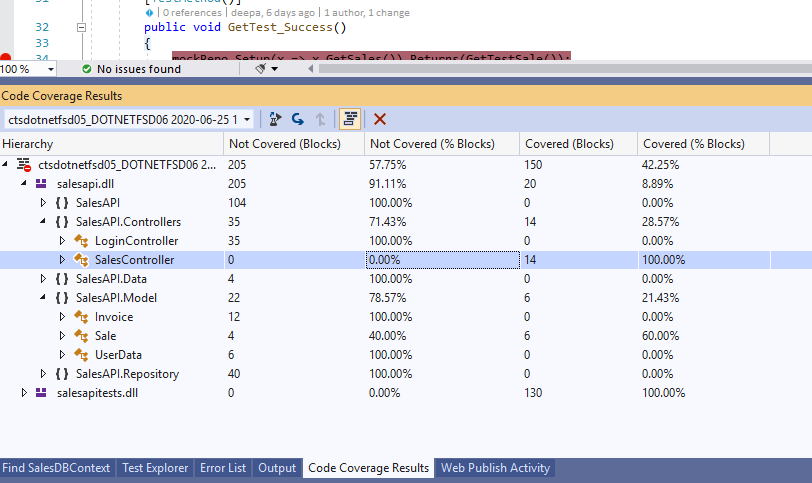
Right click on any action from controller, and create a unit test file with project



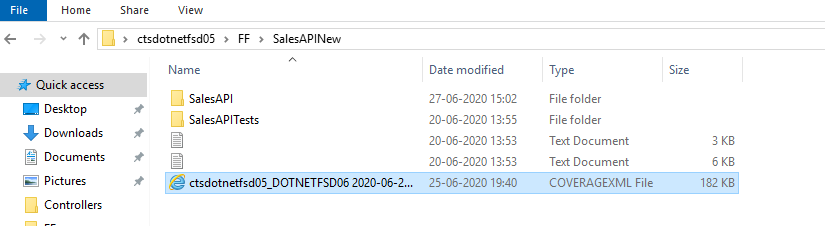
Include tests for all CRUD operations



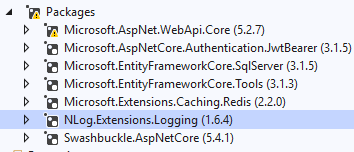
1. Get Code Coverage.

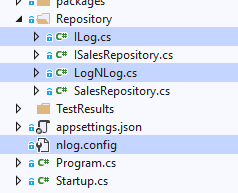


An xml file on coverage will be generated at the app root folder.



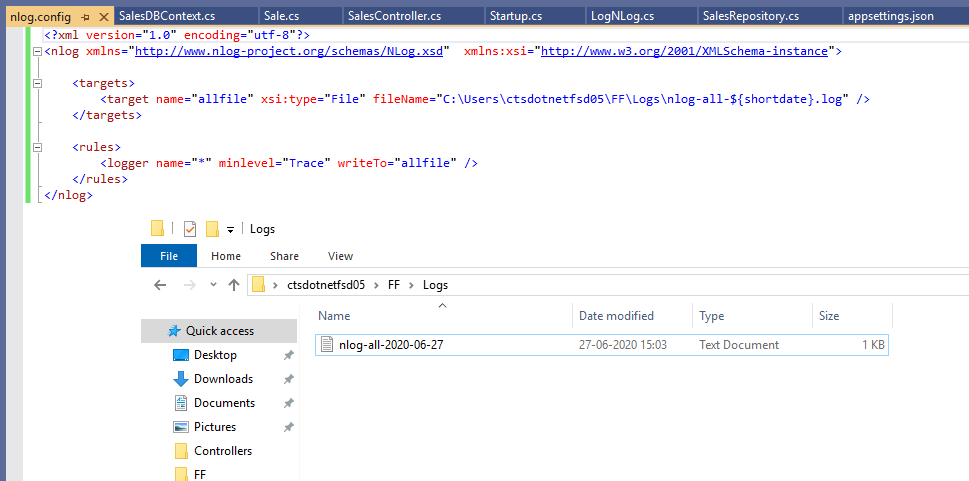
1. Include loggin



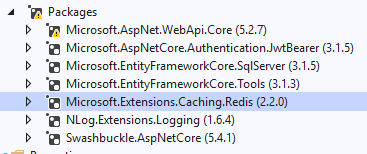




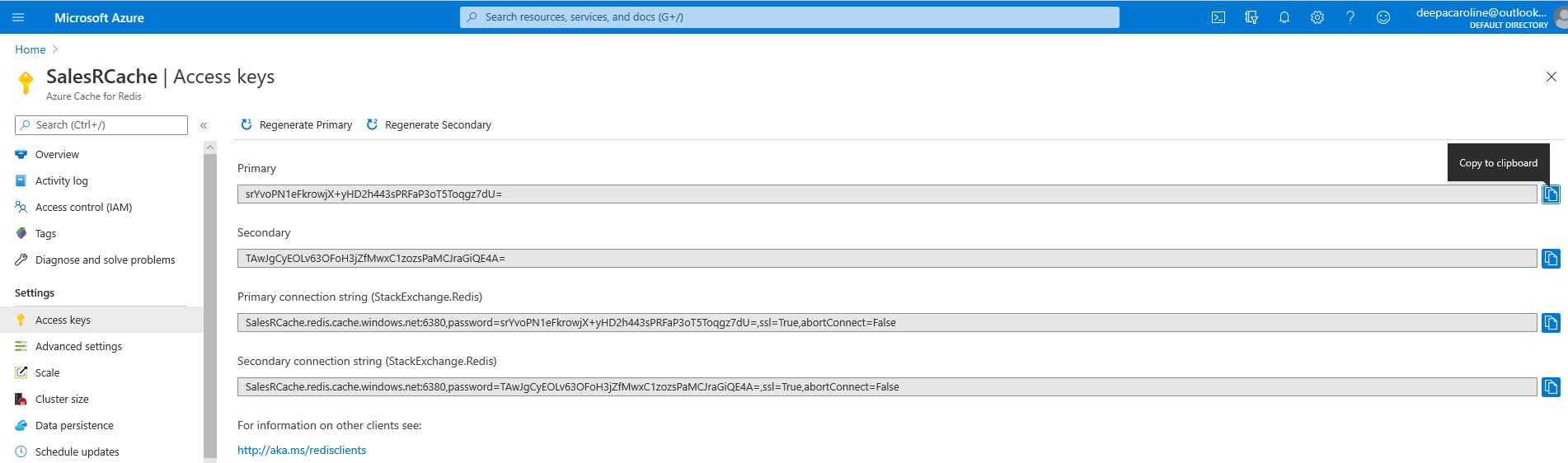
Log file will be created at the path specified in the XML



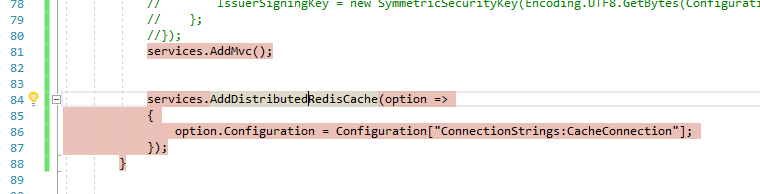
1. Include redis Cache



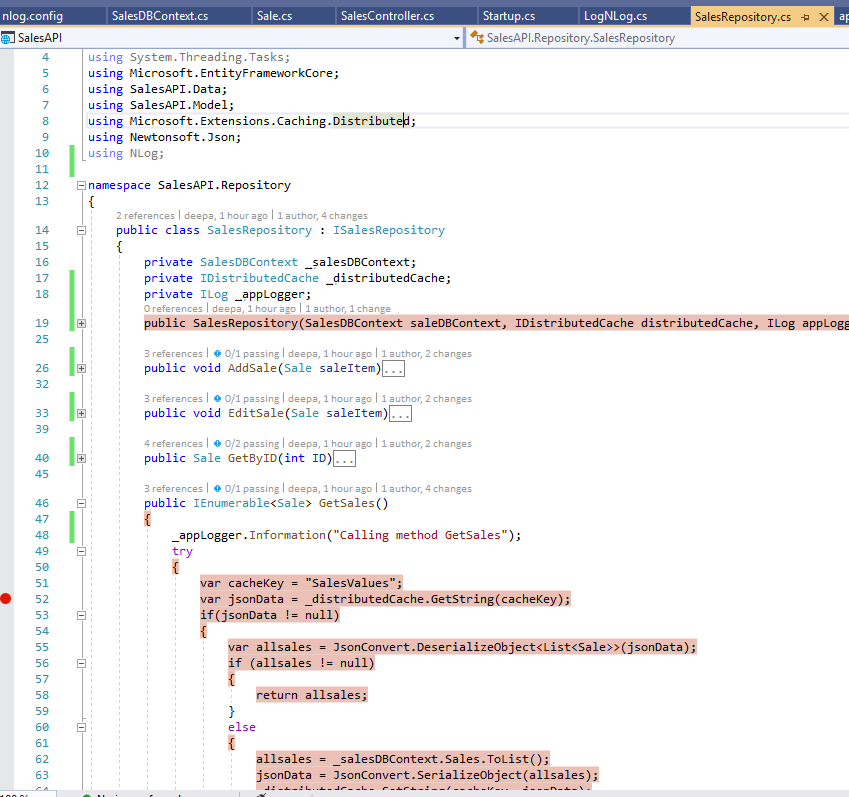
Configure Redis Cache in Azure



Use the primary Key in StartUp.cs file



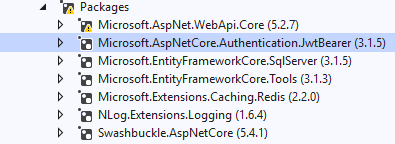
Now Get and Set Value as Json String into cache.

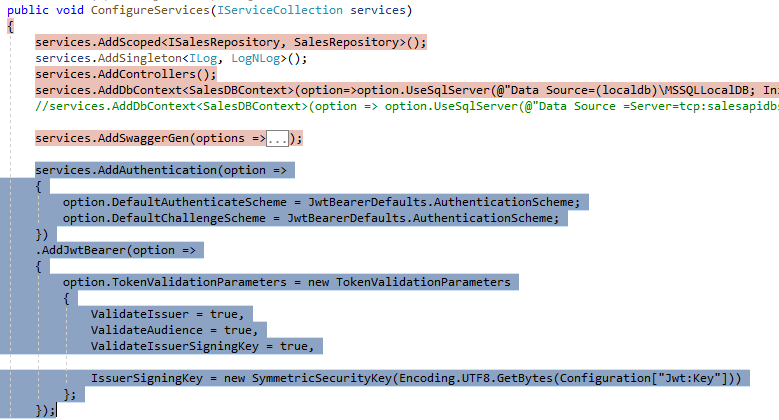


Test Get method in PostMan, to understand the response time with cache.

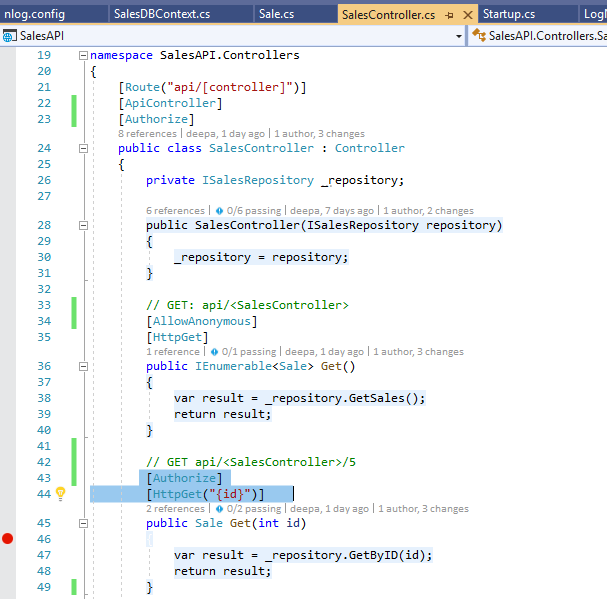
1. Include authentication using Jason Web Token.

Add JWT nugget package

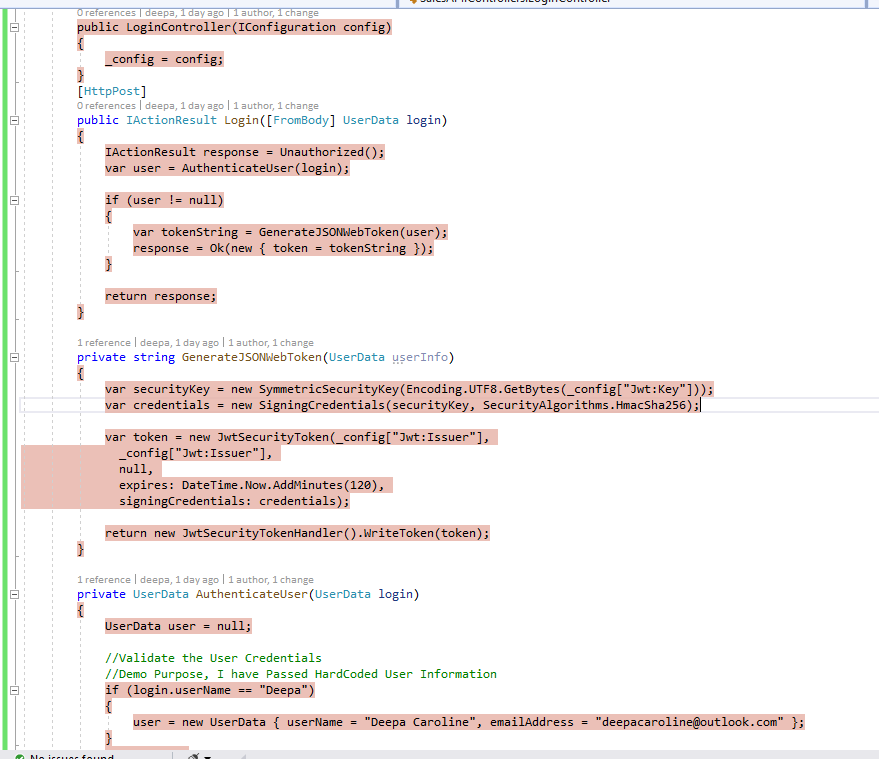




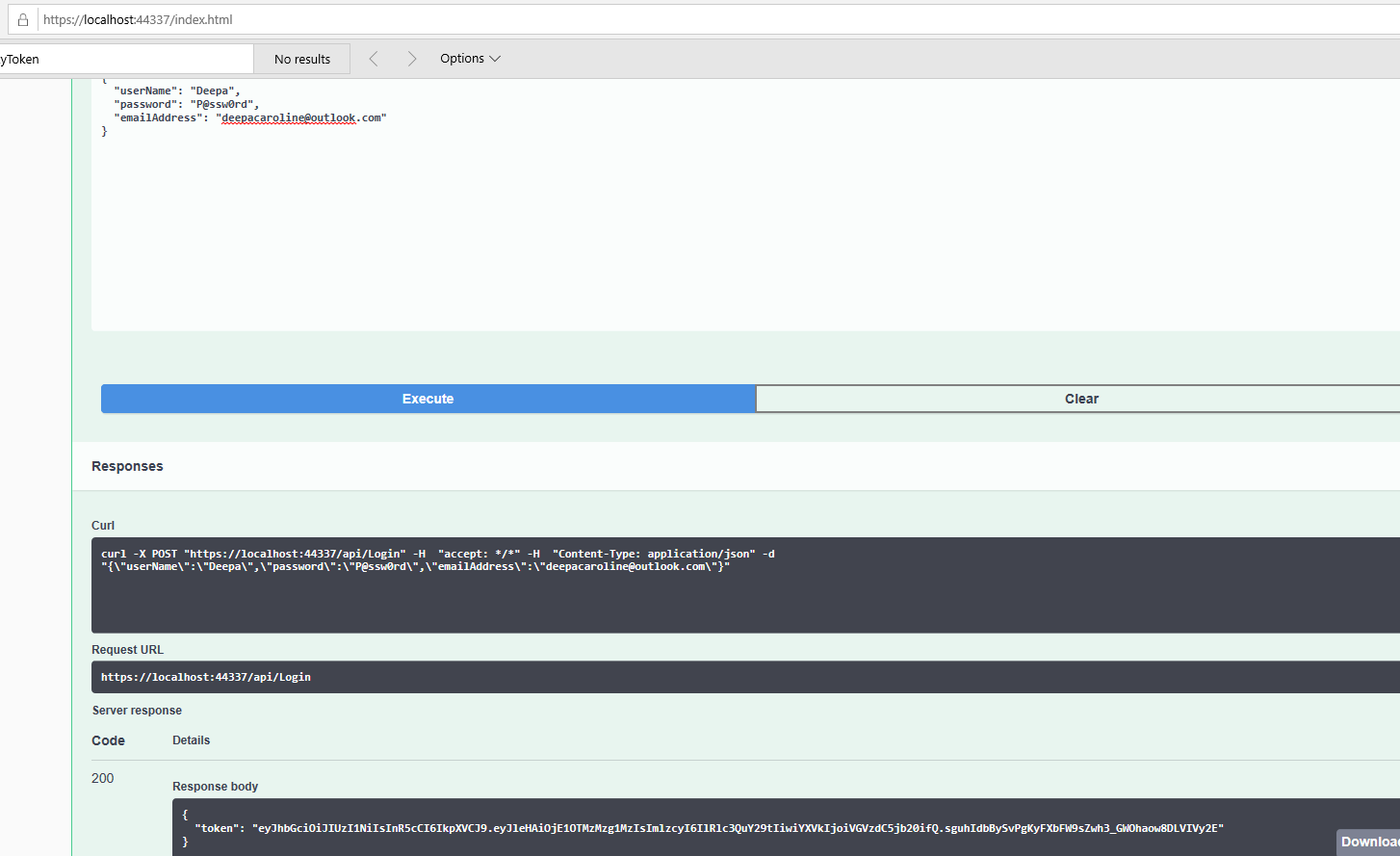




Create Login controller to create a JWT.



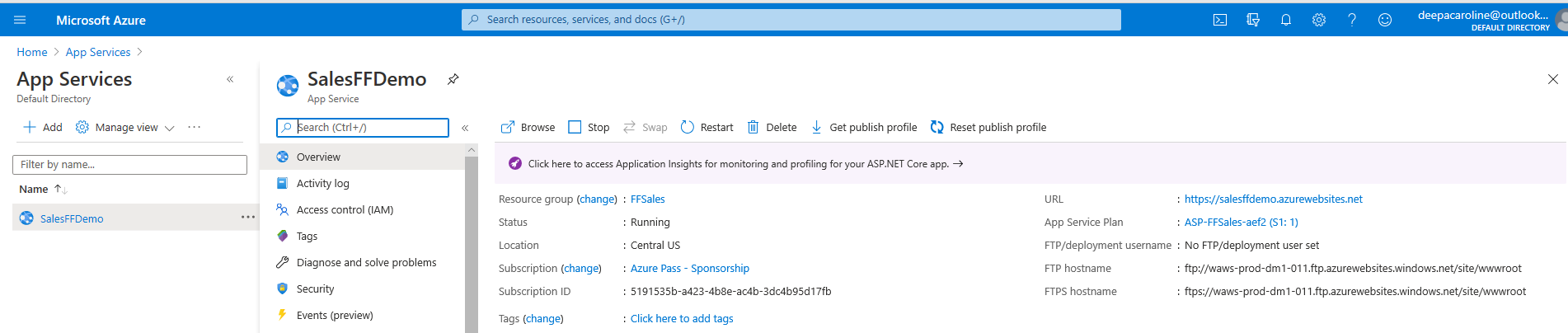
Call Login through swagger to get the token.



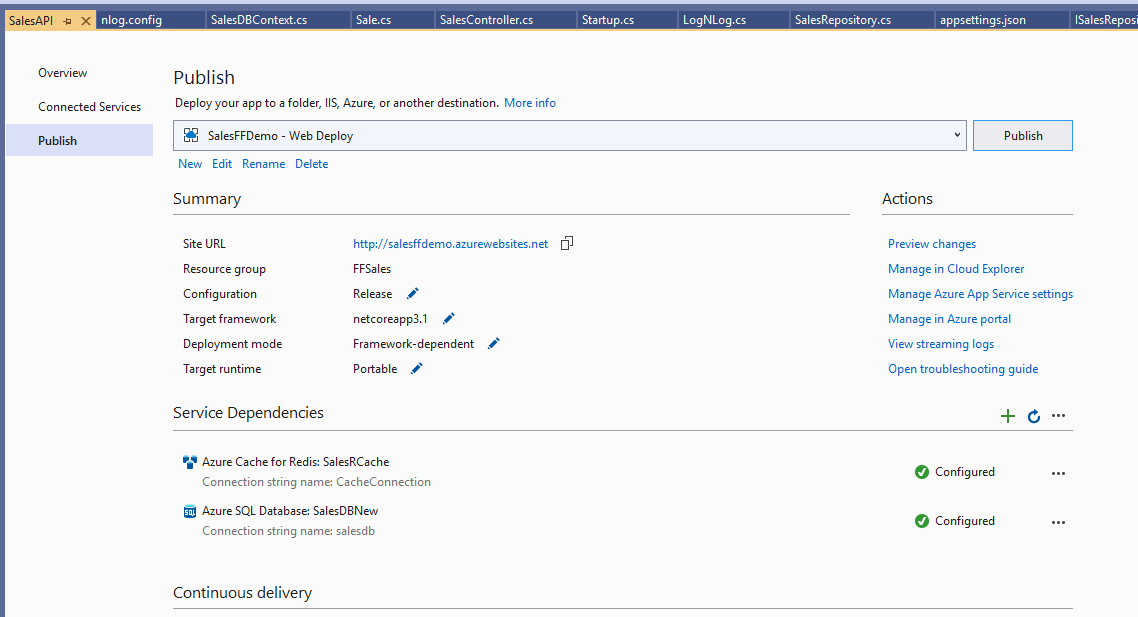
Use this token to authorize the next API call.

1. Publish in Azure cloud

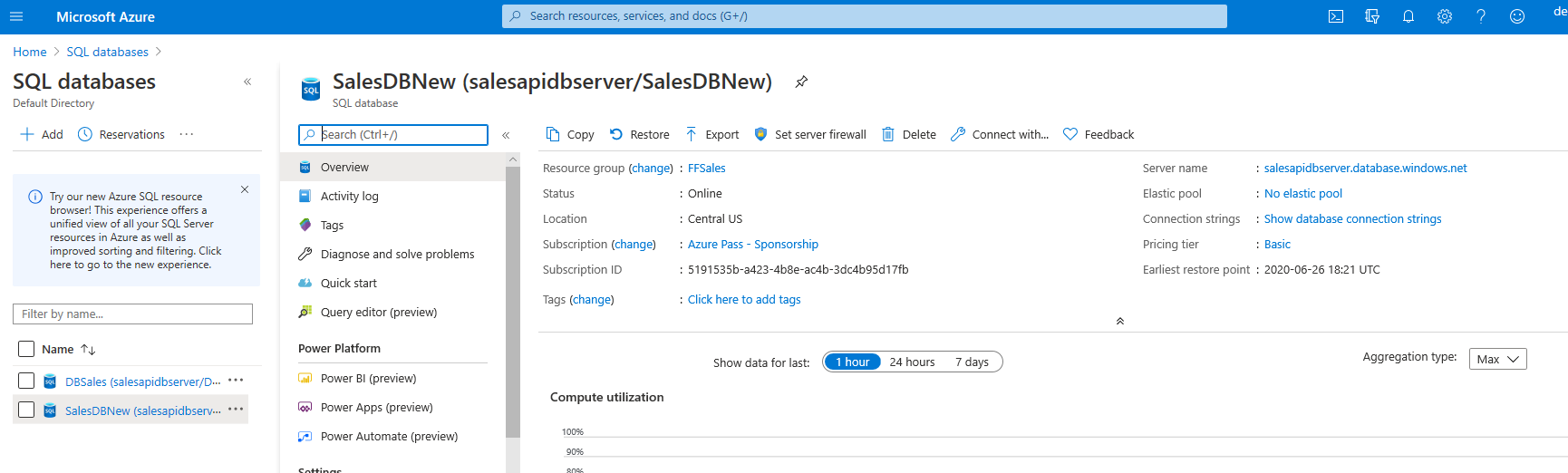
Create service in Azure



Publish to this service

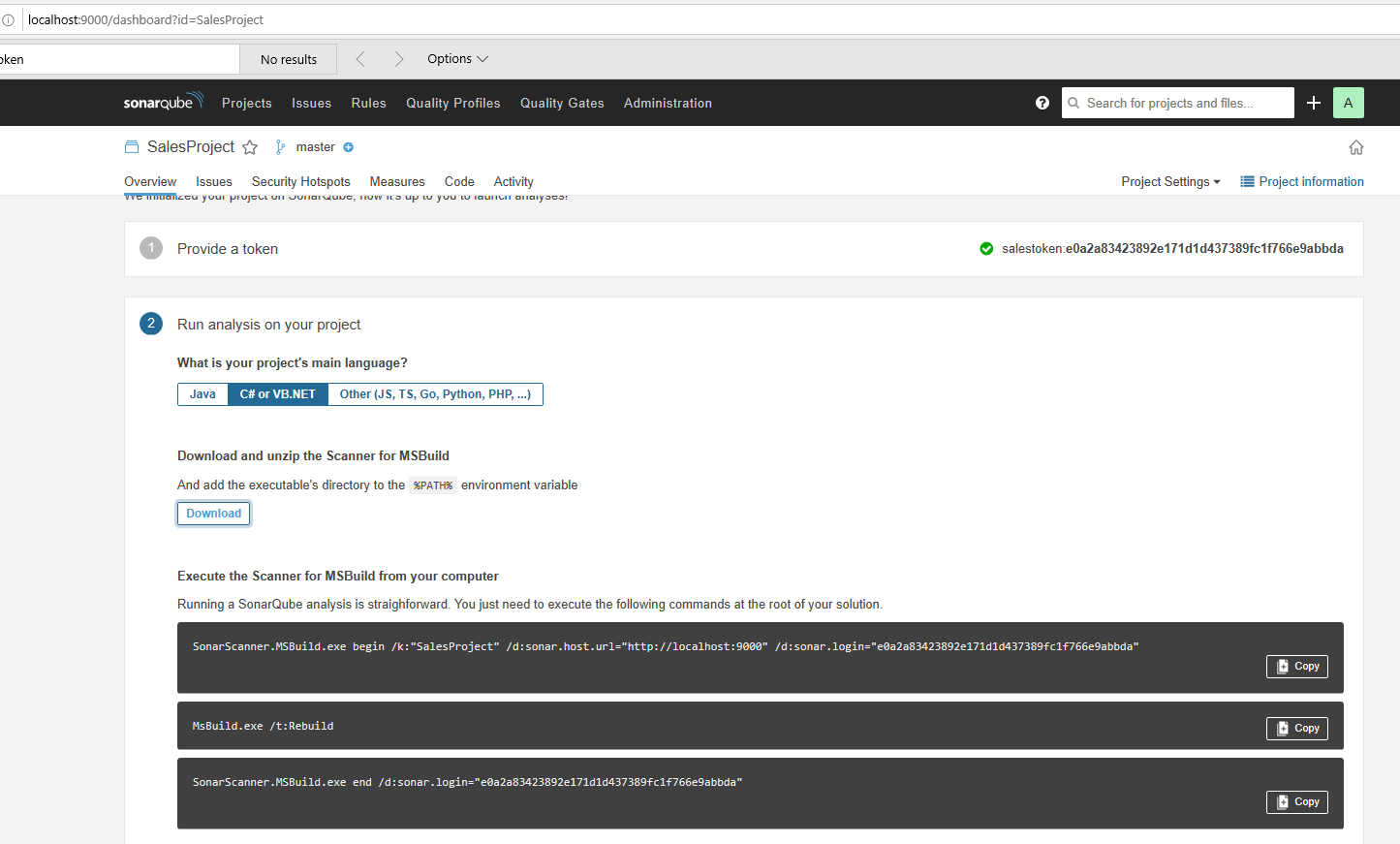


Configure the SQL DB in Azure



1. Configure Sonar cloud

Download and install SonarQube, on running, get the project from GIT, and configure to run and generate token.



1. DB connection

Data Source=tcp:salesapidbserver.database.windows.net,1433;Initial Catalog=SalesDBNew;User Id=deepacaroline@salesapidbserver;Password=