# **DOTNET CORE-AZURE**

# MINI PROJECT

Create a Web API Project to store Product Information. Use Entity FrameWork to store the Production information in the database. The user should be able to Perform all the CRUD Operations. Configure GET, POST, PUT, DELETE.

The Product Entity should have the following Properties:

- Product ID
- Product Name
- Price
- Brand
- ManufactureDate
- ExpirationDate

Use Data Annotations to

- Mark the Primary Key
- Mark ProductName Mandatory
- Mark Price a Number

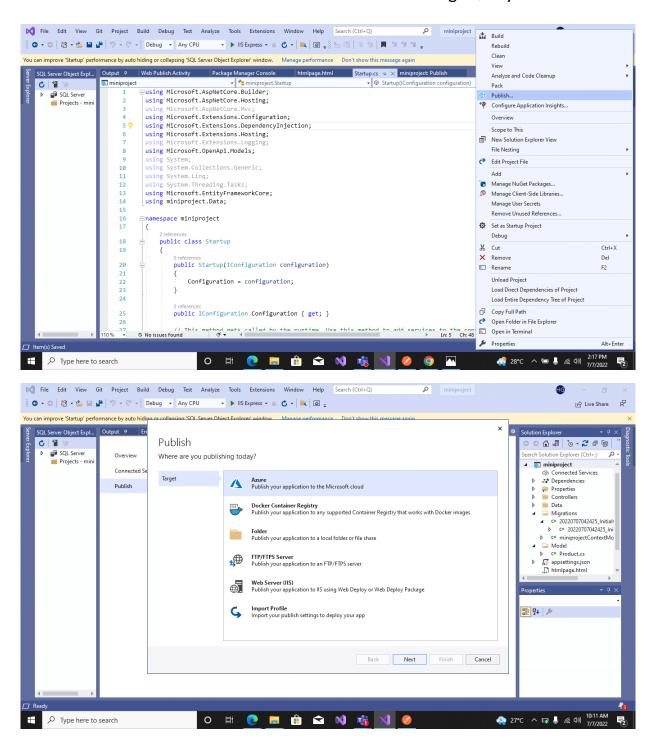
Create a JQuery and AJAX Client to consume the Web API and show the result.

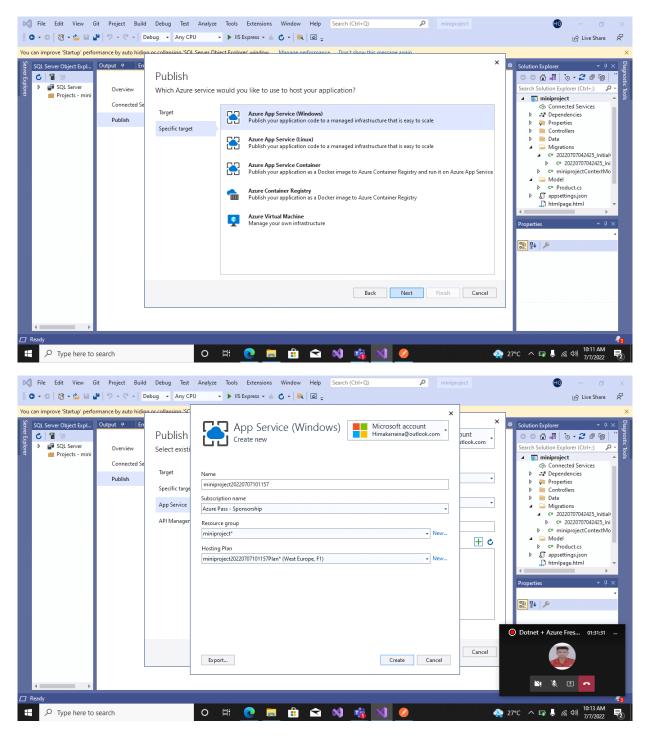
# **AZURE HOSTING:**

- Host the Web api in azure and consume the same using JQuery Client.
- Configure Scale out by Dadding rules for custom scaling.
- configure Deployment slots for staging and Production.
- · Configure Application Insights for the Project.
- Configure Swagger for the api.

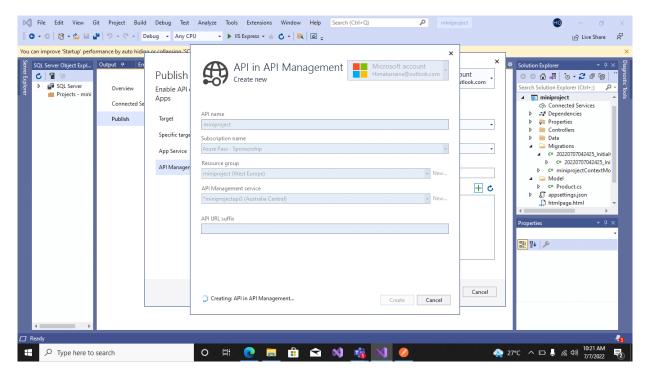
Work with Log Analytics with the sample logs available.

1. Host the Web API in azure and consume the same using JQuery Client.

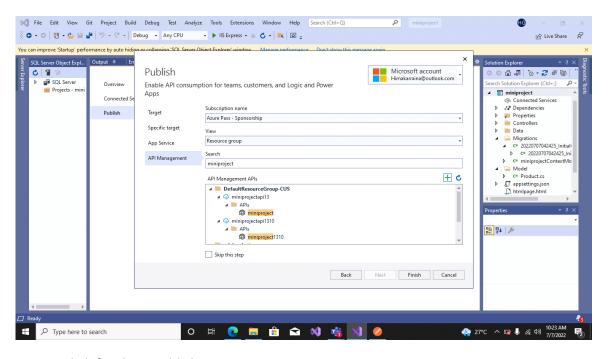




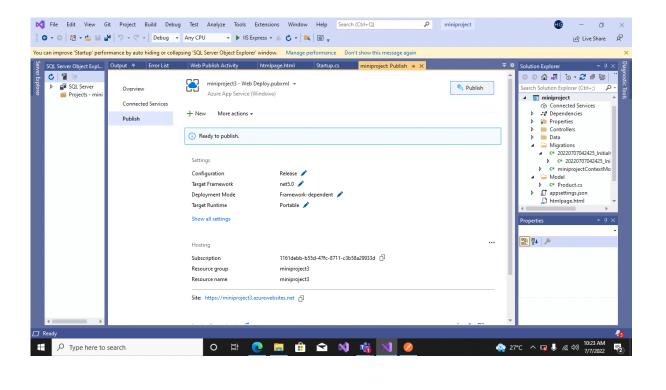
create app service



- create API in API Management click on new in both Resource group amd api management.
- create api management.



click finish to publish

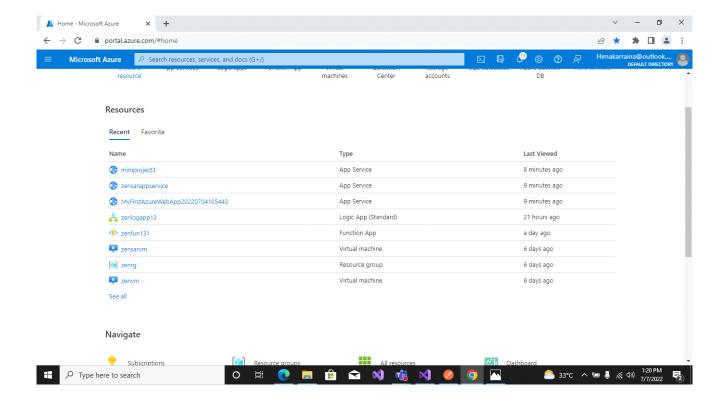




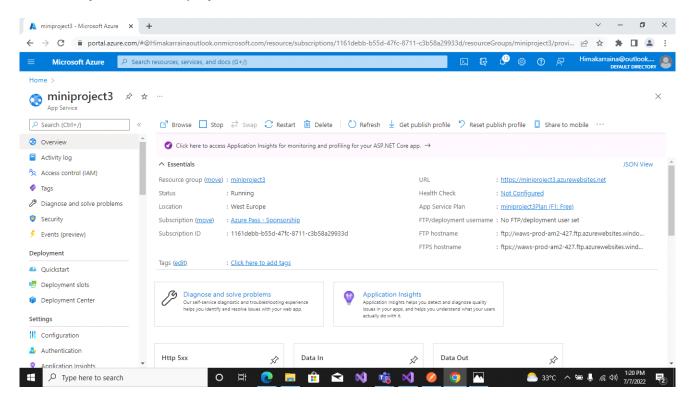
[{"productID":1,"productName":"mobile","price":40000,"brand":"samsung","manufactureDate":"12/12/1998","expirationDate":"25/11/2022"},
{"productID":2,"productName":"car","price":400000,"brand":"kia","manufactureDate":"25/09/2000","expirationDate":"31/07/2021"},
{"productID":3,"productName":"car","price":400000,"brand":"shee","manufactureDate":"17/05/2018","expirationDate":"02/02/2023"}]



• After the publish done we can see Project in Azure.



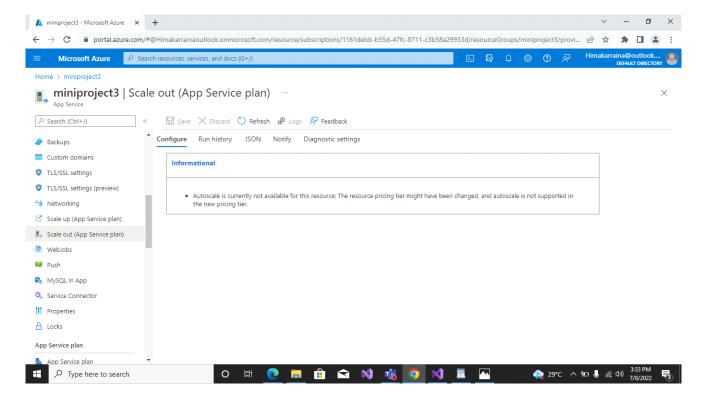
· Project name miniproject3



# 2. Configure scale out by adding rules for custom scaling

search and select autoscale in the search bar.

- select custom autoscale.
- In the rules section of the default scale condition, select add a rule.
- From the Metric source dropdown, select current resource.
- From resource type, select Application Insights.
- From the resource dropdown, select your App services plan standard metrics.
- depending upon on condition we can get no of machines we required.
- machine will get busy if custom autoscale cpu is more than 70%.
- instant count to 1 and cool down by 5 minutes.
- in scale out we add more units for better work.

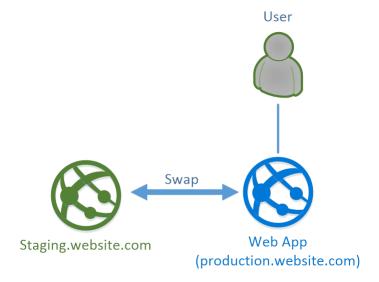


# 3. Configure Deployment slots for staging and Production.

Azure Function deployment slots allow your function app to run different instances called "slots".slots are different environments exposed via a publicly available endpoint.

- navigate to Deployment slots in the function app, and then select the slot name.
- Select Configure, and then select the setting name you want to stick with the current slot.

- select Deployment slot settings and then select OK.
- Once settings section disappears, select save to keep the changes.
- select Deployment slots, and then select +add slot.
- type the name of the slot and select add.
- select Deployment slots, and then select Swap.
- the operation may take a moment while the swap operation is executing.



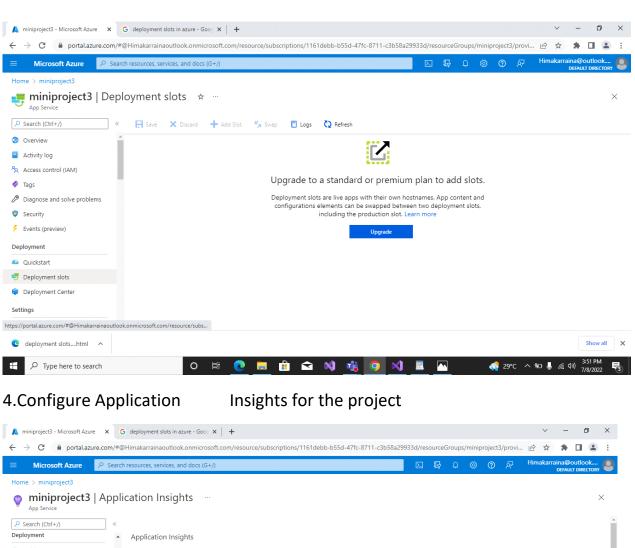
## PRODUCTION ENVIRONMENT

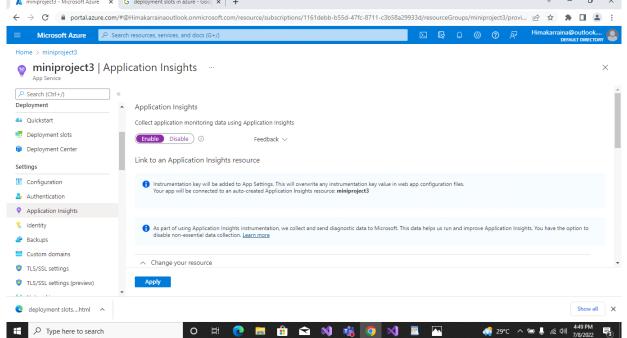
## PRODUCTION SLOT

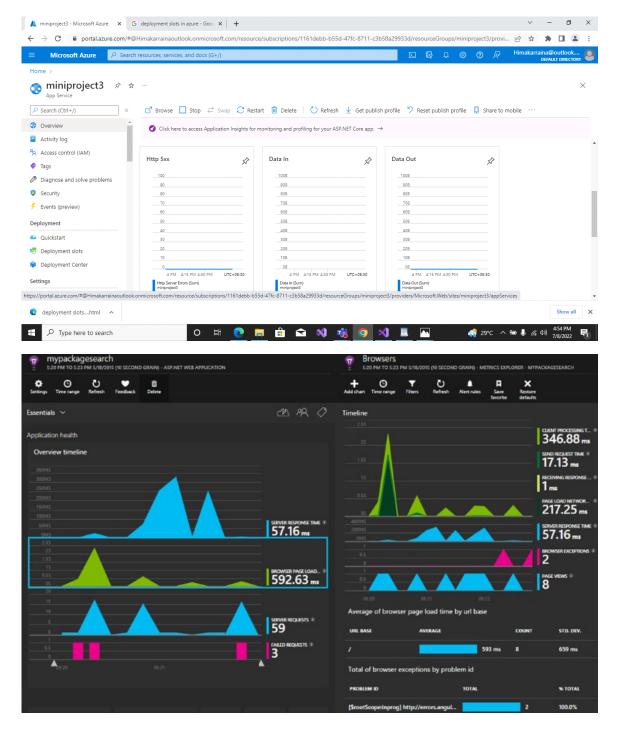
- home contact about
- today deal

## **STAGGING SLOT**

- home
- contact us
- · about us







- no need to write one line of code for this.
- tell your services it running.
- Data in and Data out, browse exeption without writing one line of code.
- · logging mechanism in cloud.
- 200 to 300 different types of chart.

# 5. Configure Swagger for the API

Swagger UI allows anyone — be it your development team or your end consumers — to visualize and interact with the API's resources without having any of the implementation logic in place. It's automatically generated from your OpenAPI (formerly known as Swagger) Specification, with the visual documentation making it easy for back end implementation and client side consumption.

#### **ADVANATGES**

DEPENDENCY FREE: The UI works in any development environment, be it locally or in the web

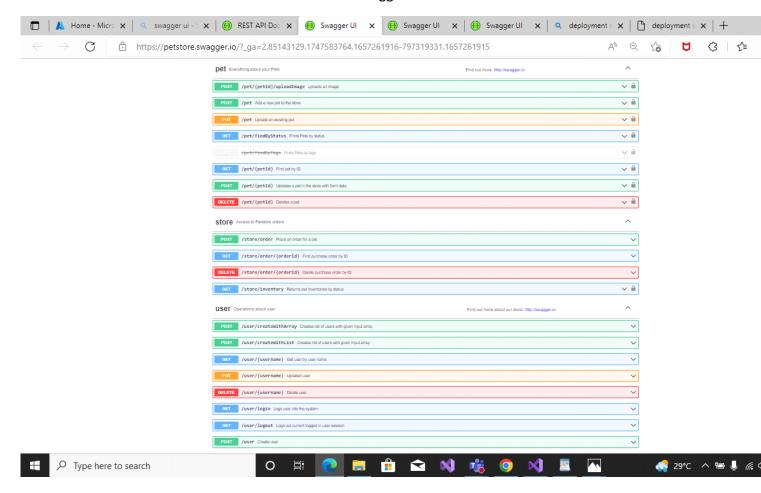
HUMAN FRIENDLY: Allow end developers to effortlessly interact and try out every single operation your API exposes for easy consumption

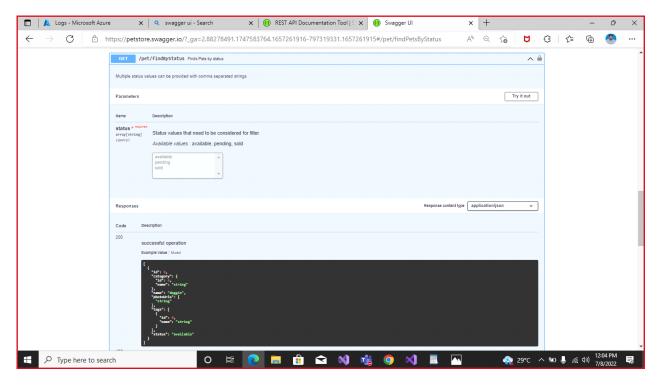
EASY TO NAVIGATE: Quickly find and work with resources and endpoints with neatly categorized documentation

ALL BROWSER SUPPORT:Cater to every possible scenario with Swagger UI working in all major browsers

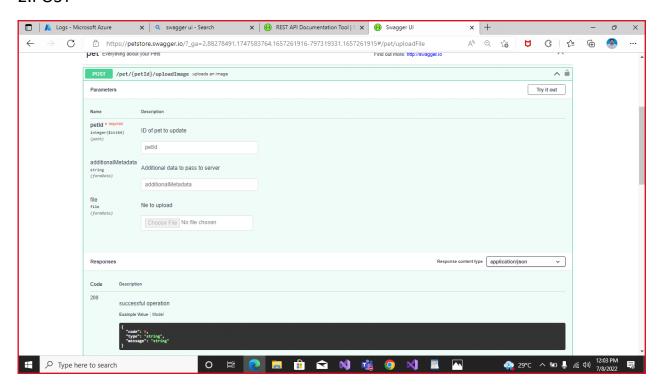
FULLY CUSTOMIZABLE:Style and tweak your Swagger UI the way you want with full source code access

COMPLETE OAS SUPPORT: Visualize APIs defined in Swagger 2.0 or OAS 3.0

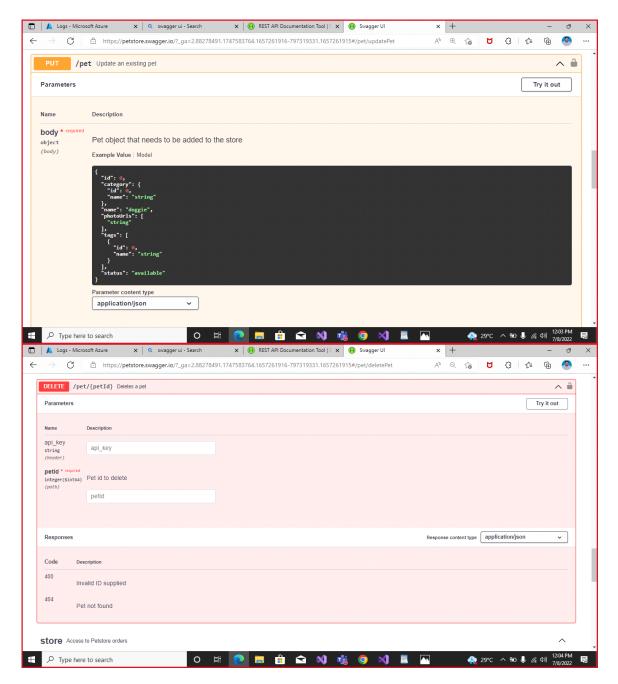




### 2.POST



## 3.PUT



### 4.DELETE

6.work with log analytics with the sample logs available.

- health state current monitoring state(string).
- · active directory health.
- language(kql-kusto query language).

- we can do
- 1. query logs.
- 2. narrow down details.
- 3. look into logs.
- 4. query about data.
- 5. like sql.

