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Fullstack Developer Exercise

Develop an AWS serverless application with .NET 8 lambda, that would receive an event, with this format.

{

ImageUrl: “http://….”

Description: “This is a great image”

}

- The application should expose an API (.NET 8) that accepts the described event as a resource through a POST operation. Use Swagger and Swagger UI to describe/document your exposed API.
- The API should be exposed via AWS API Gateway.
- Create an application to display a webpage with the last image received, its description, and the time when it was received on a simple page that communicates with the API.
- Use Angular for the UI, and no server side rendering. Try to use Angular Material also. Recommend nodejs.
- The page should display the “almost live” information, but no need for Websockets. A simple refresh of the data from 5 to 5 seconds would be enough. (Websockets technology doesn’t work right away with API Gateway anyway)
- The application would display also a last hour count - how many events have been received in the last hour. No need for any persistence mechanism, if the application restarts, (or the lambda function reloads) and the data is lost, it’s ok.
- The application should define a serverless cloudformation template, and should be able to be deployed easily with it. (Visual Studio does that for aspnet mvc core app)
- Expose the app into your own AWS account and make it visible through AWS API Gateway (or create a free AWS account if you don’t have one)
- Host the source code on Github
- **Exercise output:** send us the URL for the API Gateway to see where this mini project is running, and the github link for the source

Lots of bonus points for:

- Defining a kinesis stream consumer processor, that will get the same type of events from a kinesis stream. The kinesis stream should be configured as a cloud formation parameter. Getting the events from the kinesis stream or from the API should trigger the same behavior.