

Day-20

Wednesday, February 19, 2025 10:15 AM

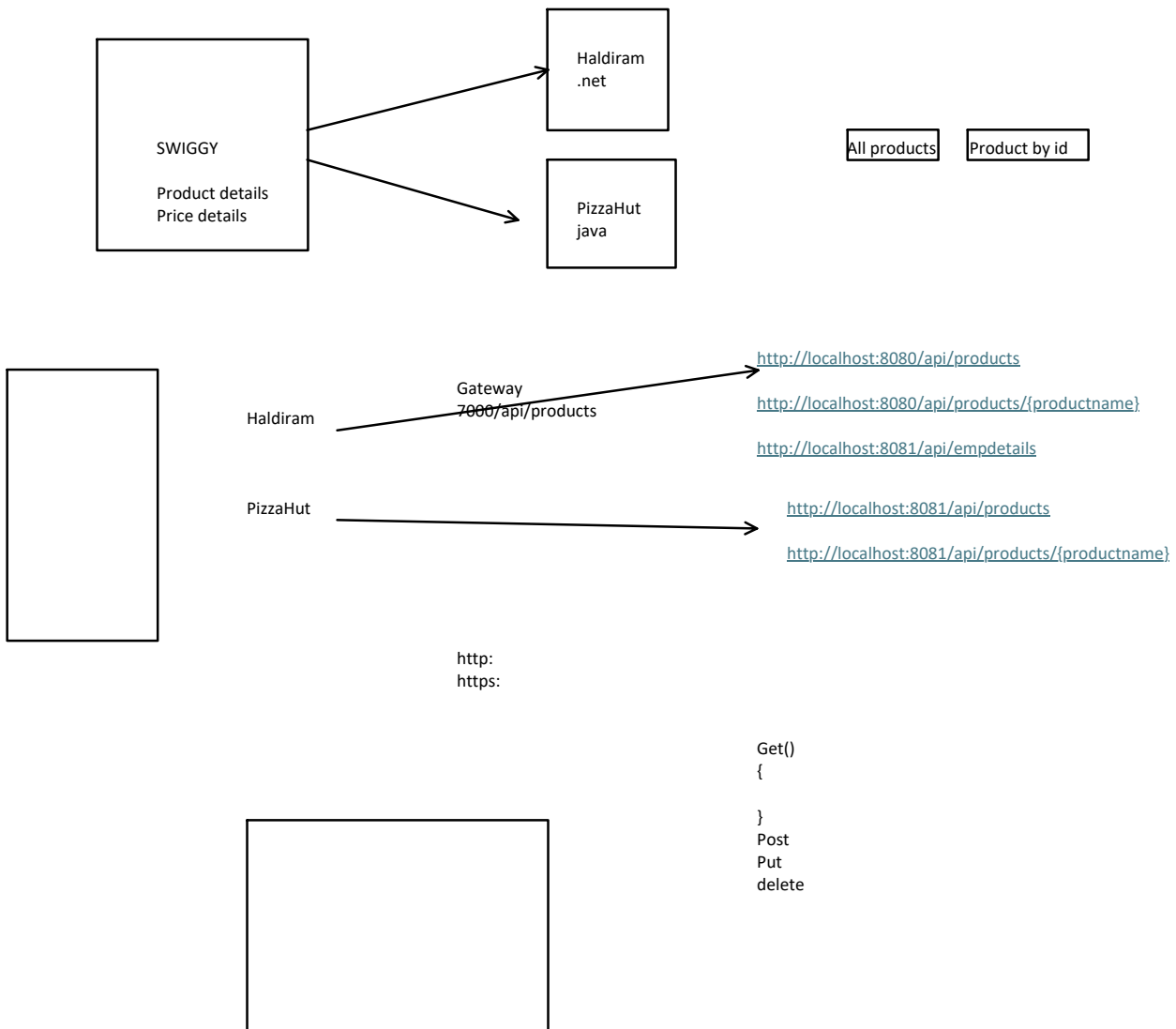
REST & Microservice Architecture

API --- Application Programming Interface --

IDE - Act as an interface between a language and a developer to write or create a application

Microservice

API / Endpoints -- rules / restriction



API -- it is a collection of communication protocols and some of the subroutines used by various by programs to communicate between them .

B2B -- Business to Business - SOAP --

B2C -- Business to Customer - Rest

Similarities

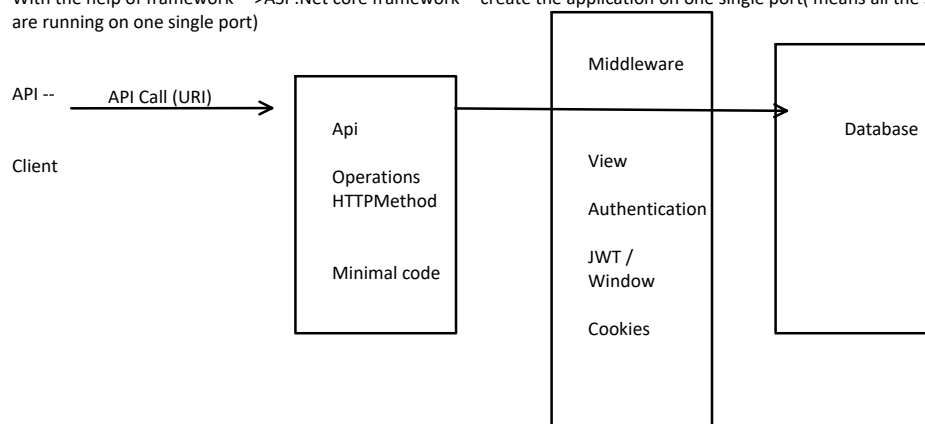
SOAP	REST
Describe some rules and standards	Does the same
HTTP(Standardized internet protocols to share or exchange the info)	HTTP
SSL/ TLS - (secure , encrypted communication)	SSL/ TLS - (secure , encrypted communication)

Differences

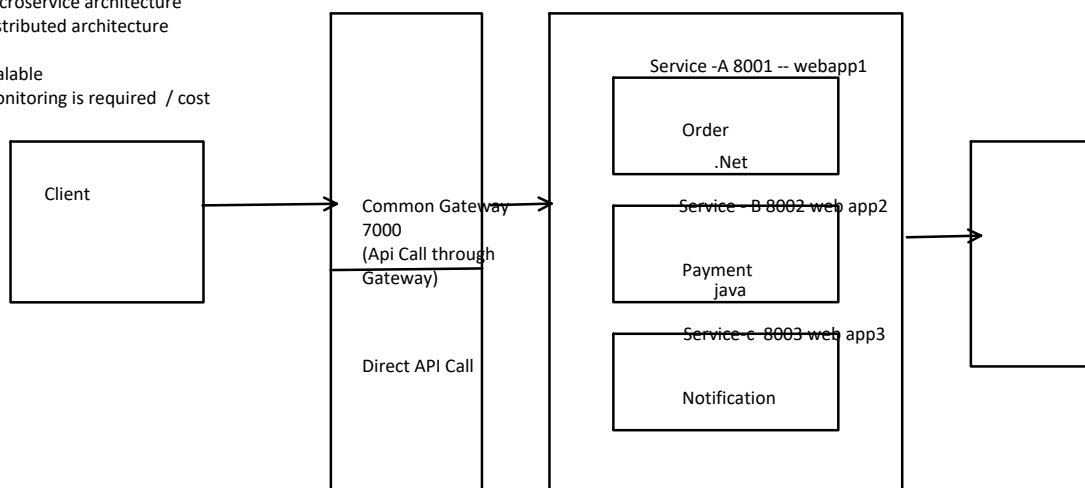
SOAP	REST
Simple Object Access Protocol	Representational State Transfer

protocol	Is an architecture
B2B -- exposing the operations	B2C
XML -- Data exchange	Json ,Text,XML ,HTML
Http /https	Https
It is useful for some legacy type of application and private APIs	For modern applications , for public APIs (REST)

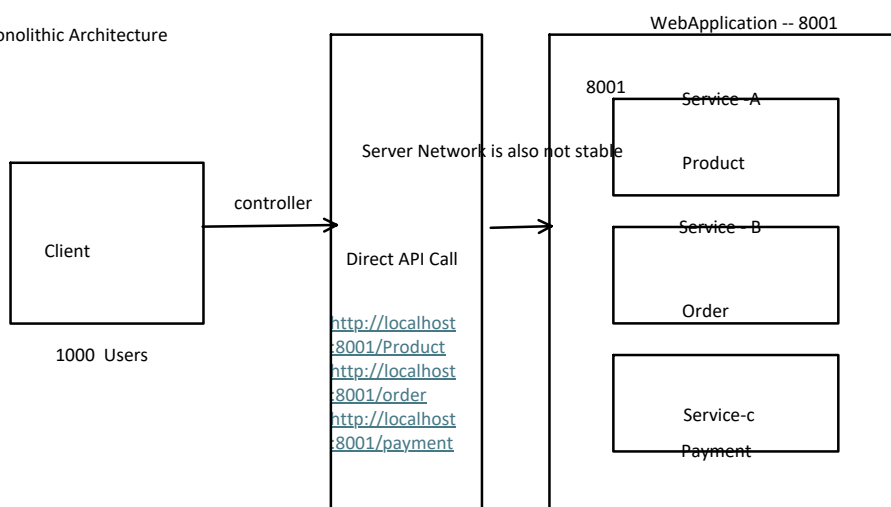
With the help of framework -->ASP.Net core framework -- create the application on one single port(means all the services are running on one single port)



Microservice architecture
Distributed architecture
Scalable
Monitoring is required / cost



Monolithic Architecture



Client has to wait when the server is up
If you are making any changes In order file and downtime is half an hour
In that half an hour other services will also get stopped responding for the oth
as well

So much load on that server then obviously the server will respond slowly

That web application is program specific (java , C#)

MVC -- Model (DAO) , View and controller

ORM Tool --- Object Relation Mapping

