Miro-services

module, modularity

A software developer develops an application then he must think about the future of the softawer, it depends on the developer scope of view.if the developer is breave, he develop his application for the long term and it has to be.so in that space that product development space relly turns to module, module systems modularity as aprinciple to help the developer to achive.modularity helps to do such things.modularity is abit more concrete in the scope of software-development.there are three tentes of modularity theat the developer must keep in mind when he thinking about software development. The first one is all about strong and capsulation, these two are all about hiding staff.when the developer thinks about hiding, it has to be seted, because all components musnt hide, also the developer must contians some api’s , contract service, definations that are explicitly defined. <strong>it doesn’t only apply to library development</strong> this also applies to the large applications, so these well-defined interfaces allows thses modules that have strongly encapulated parts to still work together in a usefull way. The last one is explicit dependencies, if the developer of creating modules that have encapulated parts and that publicly exported api’s then the developer end up with an application that consists of small parts.

Modularity is the ultimate agile tool because if there is module and modular part in the system

It means that the developer can easily replace internal so the developer can replace iplementaions as long as the developer adhere to these well-defined interfaces.

Microservice is a peace of software component independently deployeble implementing a business, its just not little technical services these are domian services usauly capability doing one thing, and doing it well communicating over a network.microservice are quite difficult to implement, because it needs a buch of people and a resource.so it needs an assumption to use the microsercice when and not to use.

now days Microservice is used across the world because of:

manage complexity:- large systems are too complex to manage too complex to evolve some how to manage thiese complexity by chopng into a peaces, that’s how it works.

Scaling :-- the scaling concept is used for scaling imdependet services and resilience in the arctechture.

monolith vs microservice

In a software enginnering a monolithhic application describe a single-tiered software application in which the user interface and data access code are combined into a single program from a single platform. A monolith application is self-contained, independent from the other computing application and also its responsiple not just for a particular task,can perform every step nedded to complete aparticular function.

Today some personal finance applications are monolithic in the sence that thay help the user carry out a complete task ,end to end. But because of all these implicit dependecies, if the programmer tries to fix in some area it could be it falls on the ohters. But on the microservice all these messes are fixed.microservice allows the developer to reuse and repaire parts of the application,but development tools are required to perform these maintenance functions(the application may be need to recompied)