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Spring Boot 9AM

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Microservices using Spring Cloud

\*) Monolithic Application

Advantages:-

- a. Simple to develop the application using basic Layers design (PL, SL and DAL).
- b. Easy to test as it is single application.  
By using single script like Selenium tool and execute end to end test.
- c. Easy to deploy the application  
Create the build -> place in server and start.
- d. Scaling also simple process. We can create multiple instances (Horizontal Scaling).

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Limitations:-

- a. You must re-build and re-deploy entire application even for small modification/update in code.
- b. These are not reliable applications [may not work properly every time].  
If one small problem exist in one module, it may effect other modules execution/stop complete project work also.  
  
It leads to memory issue, bugs in code, wrong output..ect as bcoz of High in cohesion/Tight connected design.
- c. Adding new concept /Adopt new technologies, may effect project design , takes time , may effect cost, code may become complex ..
- d. When new modules are added then application size, code, memory may get increased. that effects on deployment time, debug, CI/CD pipe line management..etc
- e. On Scale all instances may not use memory poperly for all module. Resource utilization issue.