

Assignment - 7

Title : Microservices Framework

Problem Statement :

To develop microservices framework based distributed application.

Tools / Environment :

Python 3.6.0 using Flask Framework

Theory :

- Microservices

Traditional application design is often called "monolithic" because the whole thing is developed in one piece. Even if the logic of application is modular, its deployed as one group.

Microservices which are also known as a microservice architecture is an architectural style that structures an application as a collection of services that are mainly known for the features such as

① Highly maintainable and testable

Microservice Architecture

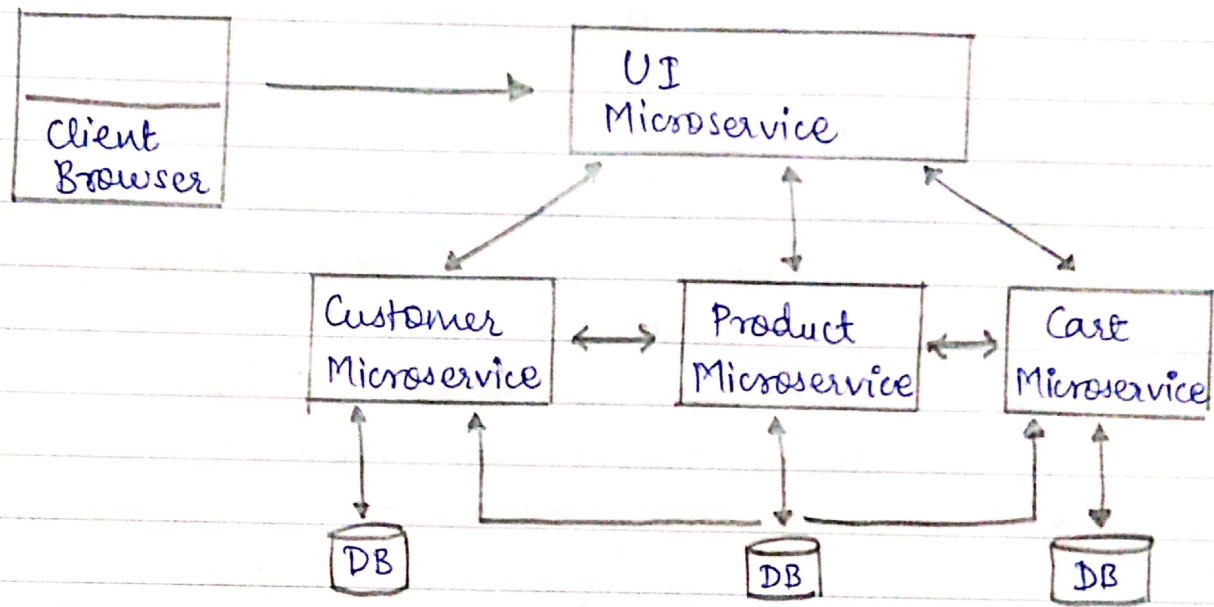


Fig: Microservice Architecture

Web Frameworks :

- It encapsulates what the developers have learned over the past twenty years while programming sites and applications for the web.
- Frameworks make it easier to reuse the code for common HTTP operations and to structure the projects so that the other developers with knowledge of framework can quickly ~~but~~ build and maintain the application.



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Shivajinagar, Pune 5.

Frameworks provide functionality to perform common operations required to run web applications :

- ① URL routing .
- ② Input form handling and validation
- ③ HTML, XML, JSON and other formats with templating engine .
- ④ Session storage and retrieval
- ⑤ Database connection configuration
- ⑥ Web security against cross-site request for query (CSRF)

② Conclusion

With microservices, modules within the software can be independently deployable. This not only provides a more decentralized approach to building software, but also allows each service to be deployed, rebuilt, redeployed and managed independently.