Microservices Architecture Training

Certification Project

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Fictional Company GOODs, an e-commerce company, provides online purchasing services and operates its business using a traditional Java EE-based web application called Customer Order Service. Although the application has been serving the business well, Company GOODs, started struggling with responding to new business requirements.

The current customer order service application is not designed to enable changes in business domain and is not open for applying new technologies for accelerating innovation with the current monolithic architecture.

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Company GOODs wants to transform the customer order service application to embrace and better handle changes in both business and technical perspectives and has a list of major business requirements:

1. The new system must be evolutionary, meaning it must be flexible for changes.

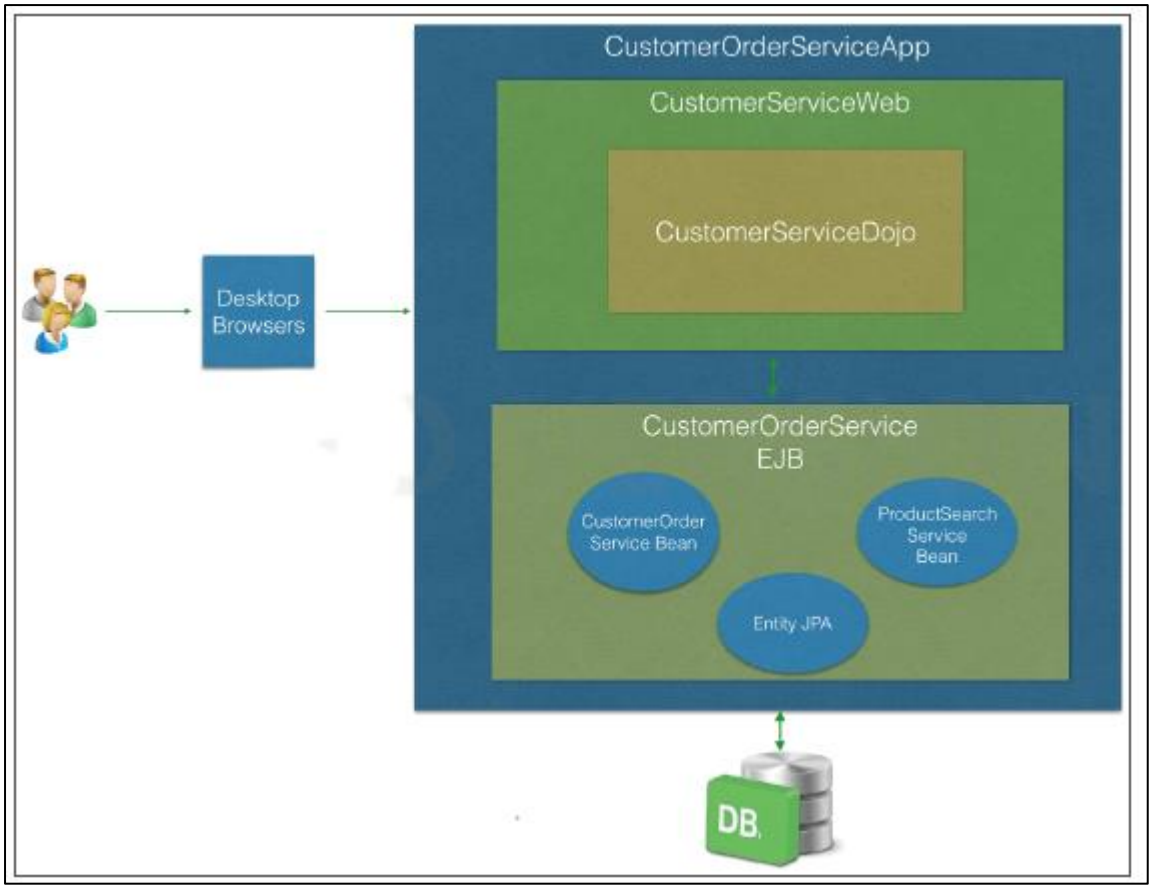
2. No down time is allowed in moving traffic from the current system to the newly built system.

3. The new application must be able to scale on demand, or automatically, based on the payload sent to the system, so that it can react to dynamic shopping behavior patterns.

4. The new system must be open for leveraging emerging technologies to embrace innovation.

Solution Hints:

The current Monolith Architecture looks like



Apply the various rest and Microservice principals we have gone though. Consider you have web front end available to user to place the requests, you do not need to design that. Your focus area should be to identify the business functional and entities and their interactions.

- ✓ Break the monolith using domain driven design
- ✓ Identify the applications that could exist independently and converted in microservices
- ✓ Identify the right inter service communication pattern
- ✓ Build one of the services using Spring Boot