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Discussion 3.1

Web 430

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**What are service oriented architectures?**

Service oriented architectures (SOA) follow a coarse-grained architecture. This is different than monolithic applications where every task is done at a time separately. SOA architectures are able to develop much faster. Features and services are broken down into smaller parts. The four services in an SOA architecture are: business, enterprise, application and infrastructure services. Each service in an SOA interact with one another to eventually develop the application. SOA’s use messaging and middleware to communicate between different languages.

**What are micro-services?**

Micro-services are broken down more than SOA’s into task level services. Tasks are independent and decentralized. Within micro-services there are only two services, functional and infrastructure. Rest API’s are used when communicating with different programming languages in an application. Services are called wen needed with micro-services instead of all the services being called at time. Different components are used for each application and service and it does not use shared resources. [Edurika]

**How does Node JS with Express fit into this discussion?**

One of the main reasons for these technologies is for scaling. Express is an excellent choice to work with micro-services to scale an app. “Once you hit a certain size maybe you need to split things up and have an authorization server, a billing service, a logging service; this way you can scale each service independently without (hopefully) bringing down the entire platform” [McGary].

Reference List

Edureka! *“Micro services vs SOA”* YouTube. 12 March 2018

https://www.youtube.com/watch?v=EpyPFnjue38&ab\_channel=edureka%21

McGary Sean. *“*[*How to structure a Node.js Express project*](https://seanmcgary.com/posts/how-to-structure-a-nodejs-express-project)*”* seanmcgary.com 27 March 2016

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