

AWE Bootcamp

Let's build a backend application together

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What we cover



What is a backend application ?



What is required to build backend?

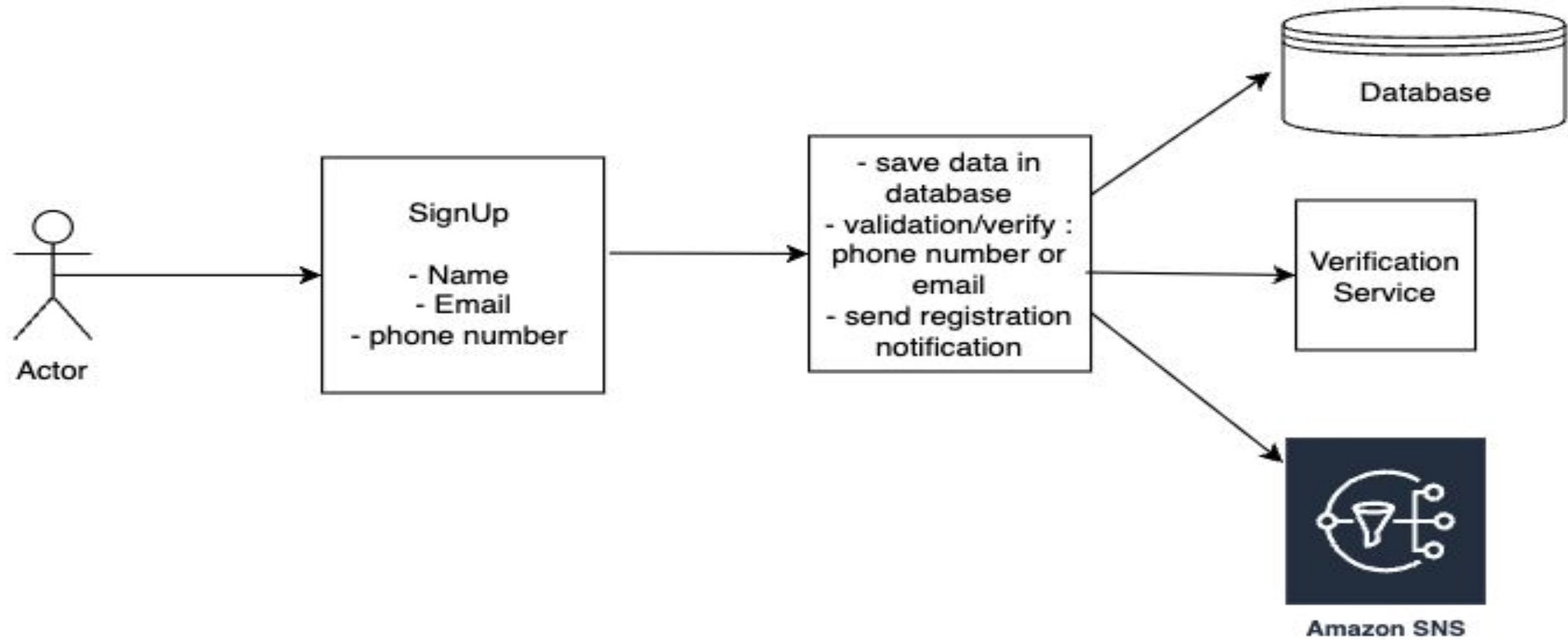


Workshop

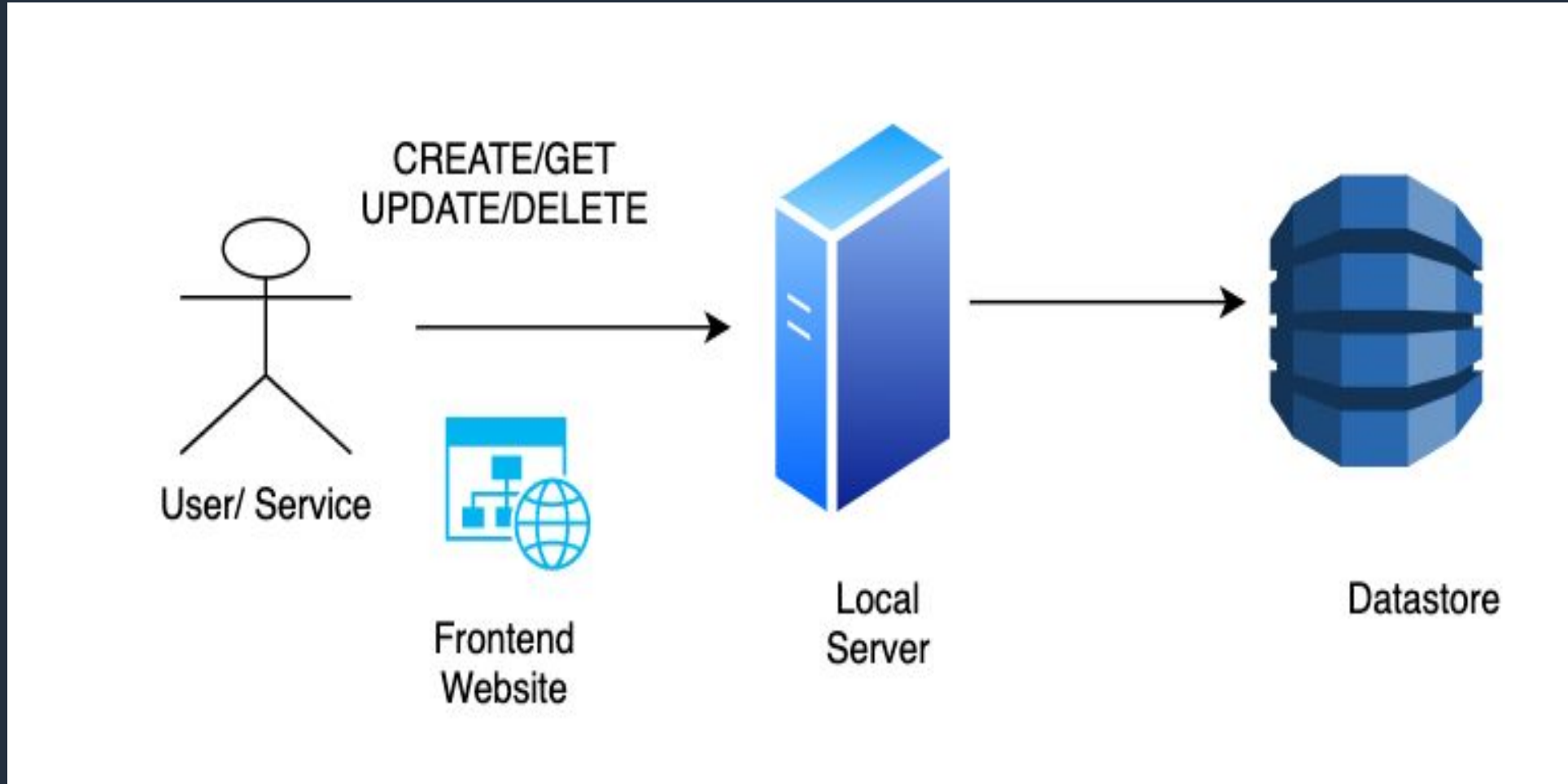
What is backend application

- It's not visible to users.
- Interface to database or other services.
- Used to perform heavy compute.
- It could be used by front-end application or other backend application.
- It is used to build dynamic frontend application.

Example



What will we build today



What is required to build backend?



Programming Language



HTTP Server



Backend Framework



Package Manager



Database

Technologies



Node



TypeScript



NestJs



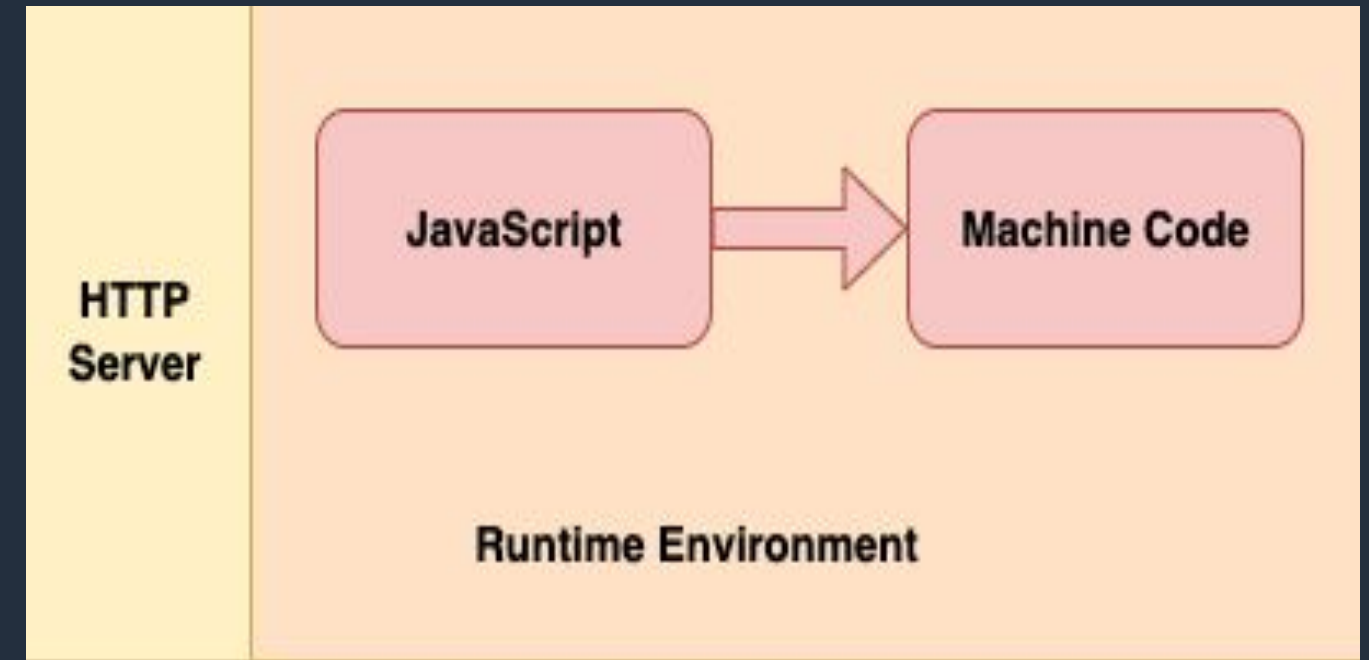
NPM



DynamoDB

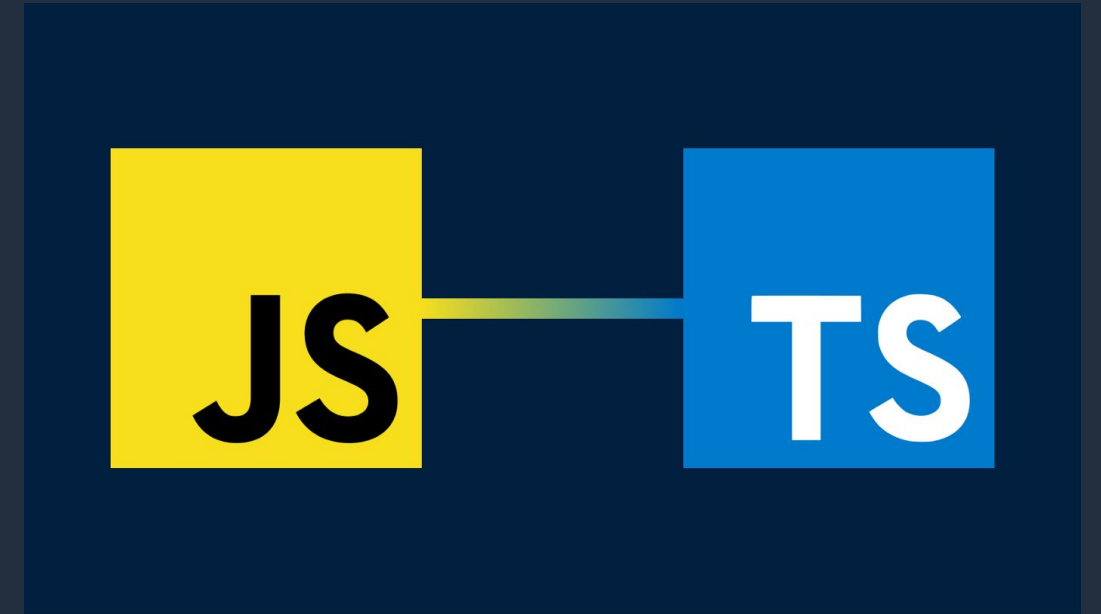
NodeJs

- JavaScript
- Runtime environment for JavaScript
- Single threaded as JavaScript was single threaded (one single thread handles event loop)
- Non-Blocking I/O



TypeScript

- Programming language 😊
- Flavor/variant of JavaScript
- Strongly typed : better readability and
- Not Opinionated, makes it easy to write object oriented code



NestJs

- Framework for building efficient, scalable server-side applications.
- It uses progressive JavaScript, is built with and fully supports TypeScript (yet still enables developers to code in pure JavaScript)
- It combines elements of OOP (Object Oriented Programming), FP (Functional Programming), and FRP (Functional Reactive Programming).



NPM

- It is an online repository for the publishing of open-source Node.js projects.
- It is a command-line utility for interacting with said repository that aids in package installation, version management, and dependency management

DynamoDB

- NoSQL database service
- Supports key–value data structures
- It's a managed service offered by AWS
- Auto-scale on traffic



References

- <https://docs.nestjs.com/modules>
- <https://nodejs.org/api/>

Q&A