

Lesson:

Different types of Nodejs Framework

Topics to be covered

- What are Frameworks
- What are the different types of Node.js Frameworks

What are Frameworks

A framework is a software tool or platform that provides developers with a set of pre-written code, components, and libraries that they can use to build applications. Frameworks often include a set of guidelines and best practices that help developers to write code more efficiently and to build applications that are more stable, secure, and scalable. Frameworks can be used in a variety of software development contexts, including web development, mobile app development, desktop app development, and game development. Some popular web development frameworks include Ruby on Rails, Django, Laravel, React, Angular, and Vue.js.

Frameworks can help developers to save time and effort by providing pre-built code and components that they can reuse across different projects. They can also help to improve the quality and reliability of applications by providing a standardized approach to coding and testing. Frameworks can vary in complexity and size, from lightweight micro-frameworks that provide only the bare essentials, to full-stack frameworks that include everything from front-end libraries to back-end database integration.

What are the different types of Node.js Frameworks?

The different types of Node.js Frameworks that help software architects to develop applications efficiently and with ease are as follows –

1. **Express.js** – Express.js is a minimalist web framework that provides a simple and flexible way to build web applications and APIs. It includes features like routing, middleware, and templating, and is one of the most popular Node.js frameworks.
2. **Koa.js** – Koa is a lightweight web framework for Node.js that was developed by the creators of Express.js. It aims to provide a more expressive and elegant API for building web applications and APIs. Koa is known for its minimalism, modularity, and its use of async functions to handle middleware.
3. **Nest.js** – NestJS is a framework for building scalable, server-side applications with Node.js. It is built on top of Express and provides a modular architecture that makes it easy to organise your code and build robust, maintainable applications.
4. **Hapi.js** – HapiJS is a Node.js framework that provides a simple and robust way to build web applications and APIs. It is known for its focus on modularity, extensibility, and easy-to-use configuration options.
5. **Fastify** – Fastify is a popular open-source web framework for Node.js that is designed to be fast, lightweight, and efficient. It was developed by Matteo Collina and is known for its low overhead and high performance.
6. **Sails.js** – Sails.js is a popular open-source web framework for Node.js that is designed to make it easy to build custom, enterprise-grade Node.js applications. It was created by Mike McNeil and has a strong focus on convention over configuration.
7. **Adonis.js** – Adonis.js is a modern, open-source web framework for Node.js that is designed to make it easy to build scalable and performant web applications. It was created by the Adonis Core Team and is known for its intuitive API and powerful CLI.