

Micro-module framework



Article Overview

Framework modules and micro-modules allow applications to be split into independently developed, deployed, and integrated components, often using Module Federation for seamless sharing.

Overview of Framework Modules

A framework module is a self-contained unit of functionality within a larger application framework. It encapsulates specific features, logic, or UI components, making it easier to maintain, test, and reuse across projects. Framework modules can be combined to form a complete application, and they often follow a modular architecture pattern that promotes separation of concerns and scalability .

Micro Modules and Micro-Frontends

Micro-modules or micro-frontends extend the modular concept to the frontend, where an application is decomposed into smaller, independently deployable pieces. Each micro-module can:

- Be developed and maintained by separate teams.
- Use different technology stacks if needed.
- Be deployed independently without affecting the rest of the application.
- Scale independently, allowing teams to optimize performance and resources . This approach is particularly useful in large organizations where multiple teams work on different parts of the same application....

Article Content

Micro-frontends with Module Federation

Module Federation further enhances this autonomy by enabling teams to choose their own technology stack, making it

Micro Frontends

Micro Frontends Good frontend development is hard. Scaling frontend development so that many teams can work

Micro Frontends with Angular and Native Federation

Module Federation is a popular technology for implementing Micro Frontends and sharing dependencies. Shipped

Micro-Frontend Architecture with Module Federation

With the rise of modern frameworks, Module Federation, introduced by Webpack 5, has become a powerful tool to

Module Federation

Module Federation Micro-Frontend Architecture Make it easier to share code between javascript applications and make team

Top Module Federation Frameworks Compared: Podium Features for ...

Each module, or microfrontend, is responsible for a specific part of the application's UI and can be developed and

Micro Framework

The Micro Framework aims to make embedded development easier, faster, and less costly by giving embedded developers access

Web Apps: Micro Frontend framework with support of Module

Presenting a multi-framework, multi-bundle orchestration layer, supporting the oldest to the newest technologies of

Module Federation

webpack is a module bundler. Its main purpose is to bundle JavaScript files for usage in a browser, yet it is also capable of

Micro Frontend Framework: The Future of Modular Web App

The Core Concepts of Micro Frontends for Web App Development Micro Frontends break large apps into small,

The Micro-Frontend Architecture Handbook

Micro frontends extend the principles of microservices to the frontend world. Instead of one big frontend app, you build

The Case for Microfrontends and Moving Beyond One Framework

Are micro-frontends tied to a specific framework like React or Angular? No. One of the strengths of microfrontends is

Building a Micro Frontend Architecture with Vue 3, Vite and Module ...

Micro frontend architecture is a powerful way to build scalable and modular applications. Instead of having a monolithic

Implementing Micro Frontends in Angular 16 with Module ...

Conclusion Implementing micro frontends in Angular 16 with Module Federation offers a powerful and flexible approach

What is Micro Frontend Architecture? | Nx

Micro frontends split a web app into independently deployed modules. Learn when to use them, when not to, and how to build them

7 Best Micro Frontend Frameworks for 2024

Discover the latest in web development with our top picks for micro frontend frameworks in 2023. Elevate your UI and

The Architect's Guide to Micro-Frontends: Module Federation with

Discover how enterprise architects can implement scalable micro-frontend architectures using Module Federation in

Micro Frontends

Extending the microservice idea to frontend development. Techniques, strategies and recipes for building a

How to Build Micro Frontends in React with Vite and Module Federation

With Micro Frontends and Module Federation, the shopping cart can be its own app, built and maintained by a

What are Micro Frontends? Definition, Uses, Architecture

Module Composition: Micro Frontends are a combination of multiple independent modules, each representing a

Building micro-frontends with webpack's Module Federation

Good frameworks exist out there that help us create micro-frontends such as single-spa and OpenComponents. But

Multi-Framework and -Version Micro Frontends with Module

Also, Module Federation allows for sharing libraries between the shell and the micro frontends. It even comes with several strategies

The Micro-Frontend Architecture Handbook

Piral is a specialized framework for building portal-based micro frontends. It provides a structured environment where

Building Micro Frontends with React, Vite, and Module Federation: A ...

A comprehensive guide to building production-ready micro frontends architecture using React, TypeScript, Vite, and

Multi-Framework and -Version Micro Frontends with Module

Multi-Framework and -Version Micro Frontends with Module Federation: The Good, the Bad, the Ugly Combining

Introduction

❏ What is Module Federation? Module Federation is an architectural pattern for the decentralization of JavaScript applications (similar

Multi-Framework and -Version Micro Frontends with Module

Module Federation makes it easy to load parts of other applications into a host. In our case, the host is the Micro Frontend shell.

Introduction

Module Federation is an architectural pattern for the decentralization of JavaScript applications (similar to microservices on the

Micro-Frontends with Angular 19 and Native Federation

Angular 19: The frontend framework used for both the shell and micro-frontend applications. Native Federation Plugin:

Solving micro-frontend challenges with Module Federation

webpack's Module Federation allows you to easily share code and dependencies between applications, helpful in

A Comprehensive Guide to Micro Frontend Architecture

It provides a flexible and agnostic approach to composition, allowing teams to use different frameworks for individual

What is Micro Frontend Architecture? | Nx

Strategic collaboration over micro frontend anarchy Knowledge base Module
Federation Micro Frontend Architecture What is Micro

How Microfrontends Work: From iframes to Module Federation

Microfrontends are transforming how teams build and deploy frontend applications at scale. This tutorial explores the

Best 5 Micro Front-end Frameworks Every Developer Should Know

Micro frontends adopt the principles of microservices and apply them to the frontend layer of web applications. Instead

The Microfrontend Revolution: Module Federation with Angular

With Module Federation we can use Angular and its router to lazy load separately compiled and deployed

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.watermanfinance.co.za>

Email: sales@watermanfinance.co.za

Phone: +49-176-8294713

Address: Neue Mainzer Str. 66-68, 60311 Frankfurt am Main, Germany

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