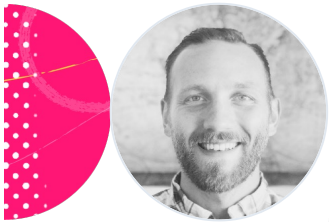


Enforcing Boundaries with Nx and Tooling



Zachary Bennett

Lead Software Developer

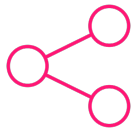
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**Nx is a popular choice for
managing multiple Angular
apps and libraries!**



Nx Monorepo Benefits at Scale



Code sharing



Optimized build and development performance



Enhanced maintainability





Demo: Working in an Angular Monorepo

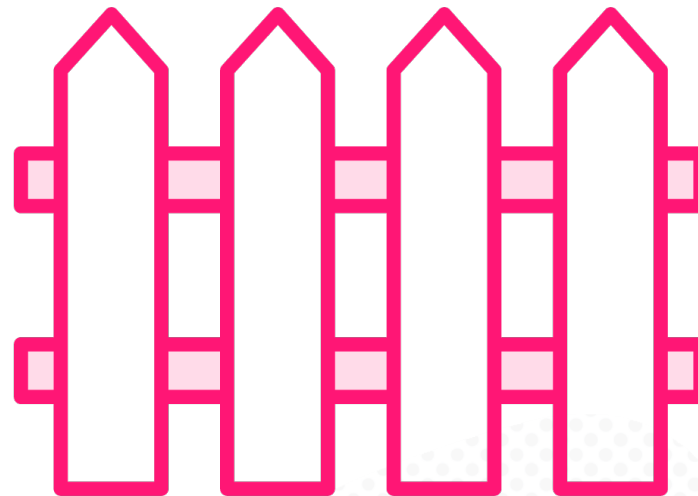




Defining Architectural Boundaries



Multi-team domains
Dependency rules
Module boundaries
Tags and linting errors



Multiple-team Project Support

Scale well by using tags associated different modules/projects

nx.json

```
{
  "projects": {
    "@sleek-store/sleek-store": { "tags": ["scope:app", "type:app"] },
    "@sleek-store/user": { "tags": ["scope:feature-user", "type:lib"] },
    "@sleek-store/cart": { "tags": ["scope:shared", "type:lib"] }
  },
  <snip>
}
```



Enforce Module Boundaries with ESLint

ESLint integrates seamlessly with Nx to enforce module boundaries for apps/libs

.eslintrc.json

```
"@nx/enforce-module-boundaries":  
  
  <snip>  
  
  "depConstraints": [  
    {  
      "sourceTag": "scope:shared",  
      "onlyDependOnLibsWithTags": ["scope:shared"]  
    }  
  ]  
  
  <snip>  
]
```





Configuring Nx Module Boundaries





Maintaining Encapsulation with Tooling



Fixing module boundary violations is important for scalability!





Maintaining Module Boundaries

