

System Overview

July 31, 2026

NestJS head-to-head

Overview

Auto-generated technical documentation for **NestJS head-to-head** — 2831 entities (725 doc comments, 394 classes, 281 interfaces, 231 api endpoints).

Architecture

```
flowchart LR
    service_ConsoleLogger_38089336["ConsoleLogger"]
    service_Logger_56f71189["Logger"]
    service_BarService_4c69a33e["BarService"]
    service_FooService_2bfde624["FooService"]
    controller_AppController_38e3c15["AppController"]
    module_AppModule_698988b["AppModule"]
    module_AppModule_25446c3e["AppModule"]
    module_MyWebhookModule_1e865006["MyWebhookModule"]
    module_AppModule_3541c3e4["AppModule"]
    service_AuthGuard_5759b537["AuthGuard"]
    service_DataInterceptor_c8076b7["DataInterceptor"]
    module_RecipesModule_567dcf2["RecipesModule"]
    service_RecipesService_50ffcca6["RecipesService"]
    module_AppModule_76187e70["AppModule"]
    module_AsyncClassApplicationModule_75045ad4["AsyncClassApplicationModule"]
    module_AsyncExistingApplicationModule_65e570a["AsyncExistingApplicationModule"]
    module_AsyncApplicationModule_770a11f7["AsyncApplicationModule"]
    service_CatsRequestScopedService_4eb9ee96["CatsRequestScopedService"]
    service_CatsGuard_5f960eea["CatsGuard"]
    module_CatsModule_4a1670f4["CatsModule"]
    service_CatsService_3b65834a["CatsService"]
    module_ConfigModule_67f1f1a["ConfigModule"]
    service_ConfigService_5fb4643a["ConfigService"]
    module_AppModule_35b2a3f7["AppModule"]
    service_BarService_4c69a33e --> service_FooService_2bfde624
    module_AppModule_25446c3e --> module_MyWebhookModule_1e865006
```

Modules

- AppModule
- AppModule
- MyWebhookModule
- AppModule
- RecipesModule
- AppModule
- AsyncClassApplicationModule
- AsyncExistingApplicationModule
- AsyncApplicationModule
- CatsModule
- ConfigModule
- AppModule
- HelloModule
- HostModule
- HostArrayModule
- ApplicationModule
- CircularModule
- CircularModule
- InputModule
- CircularPropertiesModule
- InputPropertiesModule
- CoreInjectablesModule
- DefaultsModule
- NestDynamicModule
- ExportsModule
- InjectSameNameModule
- InjectModule
- AModule
- BModule
- CModule
- MultipleProvidersModule
- PropertiesModule

- **ScopedModule**
- **SelfInjectionProviderModule**
- **SelfInjectionForwardProviderModule**
- **SelfInjectionProviderCustomTokenModule**
- **AppModule**
- **CatsModule**
- **ChatModule**
- **HelloModule**
- **CircularModule**
- **InputModule**
- **CoreModule**
- **DatabaseModule**
- **DefaultsModule**
- **DogsModule**
- **DurableModule**
- **ExternalSvcModule**
- **PropertiesModule**
- **HelperModule**
- **RequestChainModule**
- **UsersModule**
- **AppModule**
- **EagerModule**
- **GlobalModule**
- **LazyModule**
- **RequestLazyModule**
- **TransientLazyModule**
- **ConfigModule**
- **AppModule**
- **ConfigModule**
- **ApplicationModule**
- **IntegrationModule**
- **ApplicationModule**
- **AsyncOptionsClassModule**

- **ConfigModule**
- **AsyncOptionsExistingModule**
- **AsyncOptionsFactoryModule**
- **CatsModule**
- **AppModule**
- **AppModule**
- **AppModule**
- **AppModule**
- **ExpressModule**
- **FastifyModule**
- **AppModule**
- **AppModule**
- **AppModule**
- **DatabaseModule**
- **LongLivingAppModule**
- **UsersModule**
- **ApplicationModule**
- **HelloModule**
- **HelloModule**
- **DurableModule**
- **HelloModule**
- **HelloModule**
- **HelloModule**
- **NestedTransientModule**
- **HelperModule**
- **RequestChainModule**
- **HelloModule**
- **AppModule**
- **AModule**
- **BModule**
- **AsyncApplicationModule**
- **AppModule**
- **AsyncOptionsClassModule**

- **ConfigModule**
- **AsyncOptionsExistingModule**
- **AsyncOptionsFactoryModule**
- **DatabaseModule**
- **PhotoModule**
- **AppModule**
- **ApplicationModule**
- **ClientsModule**
- **MulterModule**
- **AppModule**
- **CatsModule**
- **CoreModule**
- **AppModule**
- **EventsModule**
- **AppModule**
- **MathModule**
- **AppModule**
- **HeroModule**
- **AppModule**
- **UsersModule**
- **AppModule**
- **CatsModule**
- **AppModule**
- **UsersModule**
- **AppModule**
- **AppModule**
- **CatsModule**
- **CoreModule**
- **AppModule**
- **CatsModule**
- **AppModule**
- **CatsModule**
- **OwnersModule**

- AppModule
- PhotoModule
- AppModule
- CatsModule
- DatabaseModule
- AppModule
- AppModule
- EventsModule
- AppModule
- AppModule
- MyDynamicModule
- AppModule
- AuthModule
- UsersModule
- AppModule
- AppModule
- AppModule
- PostsModule
- PrismaModule
- AppModule
- RecipesModule
- AppModule
- AppModule
- ConfigModule
- AppModule
- AudioModule
- AppModule
- TasksModule
- AppModule
- AppModule
- AppModule
- OrdersModule
- AppModule

- **AppModule**
- **PostsModule**
- **AppModule**
- **UsersModule**
- **AppModule**
- **AppModule**
- **PostsModule**
- **AppModule**
- **UsersModule**
- **AppModule**
- **RecipesModule**
- **AppModule**
- **AppModule**
- **AppModule**
- **CatsModule**
- **CoreModule**
- **AppModule**

Entry Points

- Controller: **AppController** (`integration/cors/src/app.controller.ts`)
- Controller: **ErrorsController** (`integration/hello-world/src/errors/errors.controller.ts`)
- Controller: **HelloController** (`integration/hello-world/src/hello/hello.controller.ts`)
- Controller: **HostController** (`integration/hello-world/src/host/host.controller.ts`)
- Controller: **HostArrayController** (`integration/hello-world/src/host-array/host-array.controller.ts`)
- Controller: **ScopedController** (`integration/injector/src/scoped/scoped.controller.ts`)
- Controller: **AppV1Controller** (`integration/inspector/src/app-v1.controller.ts`)
- Controller: **AppV2Controller** (`integration/inspector/src/app-v2.controller.ts`)
- Controller: **CatsController** (`integration/inspector/src/cats/cats.controller.ts`)
- Controller: **HelloController** (`integration/inspector/src/circular-hello/hello.controller.ts`)

- Controller: **DatabaseController**
(`integration/inspector/src/database/database.controller.ts`)
- Controller: **DogsController** (`integration/inspector/src/dogs/dogs.controller.ts`)
- Controller: **DurableController**
(`integration/inspector/src/durable/durable.controller.ts`)
- Controller: **ExternalSvcController** (`integration/inspector/src/external-svc/external-svc.controller.ts`)
- Controller: **RequestChainController** (`integration/inspector/src/request-chain/request-chain.controller.ts`)
- Controller: **UsersController** (`integration/inspector/src/users/users.controller.ts`)
- Controller: **LazyController** (`integration/lazy-modules/src/lazy.controller.ts`)
- Controller: **AppController** (`integration/microservices/src/app.controller.ts`)
- Controller: **DisconnectedClientController**
(`integration/microservices/src/disconnected.controller.ts`)
- Controller: **GrpcController** (`integration/microservices/src/grpc/grpc.controller.ts`)
- `GET /` → `getGlobals`
- `GET /sync` → `synchronous`
- `GET /async` → `asynchronous`
- `GET /unexpected-error` → `unexpectedError`
- `GET /hello` → `greeting`
- `GET /hello/async` → `asyncGreeting`
- `GET /hello/stream` → `streamGreeting`
- `GET /hello/local-pipe/:id` → `localPipe`
- `GET /` → `greeting`
- `GET /async` → `asyncGreeting`
- `GET /stream` → `streamGreeting`
- `GET /local-pipe/:id` → `localPipe`
- `GET /` → `greeting`
- `GET /async` → `asyncGreeting`
- `GET /stream` → `streamGreeting`
- `GET /local-pipe/:id` → `localPipe`
- `GET /` → `helloWorldV1`
- `GET /:param/hello` → `paramV1`
- `GET /` → `helloWorldV2`

- `GET /:param/hello` → `paramV1`
- `POST /cats` → `create`
- `GET /cats` → `findAll`
- `GET /cats/:id` → `findOne`
- `GET /hello` → `greeting`
- `POST /database` → `create`
- `GET /database` → `findAll`
- `GET /database/:id` → `findOne`
- `PATCH /database/:id` → `update`
- `DELETE /database/:id` → `remove`
- `POST /dogs` → `create`

Key Components

The most-referenced entities — start here.

- **forwardRef** (function) — referenced 8×
- **ClientProxy** (class) — referenced 7×
- **GlobalService** (service) — referenced 6×
- **Post** (graphql type) — referenced 6×
- **Reflector** (class) — referenced 5×
- **EagerService** (service) — referenced 5×
- **Cat** (graphql type) — referenced 5×
- **Recipe** (graphql type) — referenced 4×
- **Cat** (graphql type) — referenced 4×
- **Recipe** (graphql type) — referenced 4×

Subsystems

Ordered by how much of the rest of the system depends on them, not by how much code they

contain. A small module many things import shapes this codebase more than a large one nothing

imports.

Subsystem	Depended on by	Entities	Starts at
Core	6	285	<code>moduleKey</code> , <code>moduleName</code>
Common	5	353	<code>DefaultValuePipe</code> , <code>ParseFilePipe</code>
Microservices	4	435	<code>normalizedPattern</code> , <code>route</code>
Dogs	1	11	<code>DogsController</code> , <code>create</code>
Host	1	10	<code>HostController</code> , <code>greeting</code>
Host Array	1	10	<code>HostArrayController</code> , <code>greeting</code>
Auth	1	9	<code>AuthController</code> , <code>signIn</code>
Orders	1	8	<code>OrdersController</code> , <code>create</code>
Integration	0	188	<code>AppController</code> , <code>getGlobals</code>
Sample	0	449	<code>AppController</code> , <code>getHello</code>

`Core` , `Common` , `Microservices` , `Dogs` , `Host` , `Host Array` , `Orders` depend on no other subsystem here — they are the leaves.

How this code is named

These conventions cover most of the codebase. Learning them is faster than reading an index —

each one lets you find any member of its family without looking it up.

Pattern	Where	Count	Examples
<code>*.module.ts</code>	across the repository	176	<code>a.module.ts</code> , <code>b.module.ts</code> , <code>c.module.ts</code> , <code>app.module.ts</code>
<code>*.interface.ts</code>	across the repository	140	<code>cat.interface.ts</code> , <code>type.interface.ts</code> , <code>file.interface.ts</code> , <code>edge.interface.ts</code>
<code>*.service.ts</code>	across the repository	114	<code>bar.service.ts</code> , <code>foo.service.ts</code> , <code>app.service.ts</code> , <code>cats.service.ts</code>
<code>*.controller.ts</code>	across the repository	97	<code>app.controller.ts</code> , <code>rmq.controller.ts</code> , <code>host.controller.ts</code> , <code>cats.controller.ts</code>
<code>*.exception.ts</code>	across the repository	55	<code>gone.exception.ts</code> , <code>http.exception.ts</code> , <code>runtime.exception.ts</code> , <code>conflict.exception.ts</code>
<code>*.decorator.ts</code>	across the repository	44	<code>sse.decorator.ts</code> , <code>ctx.decorator.ts</code> , <code>ack.decorator.ts</code> , <code>bind.decorator.ts</code>

