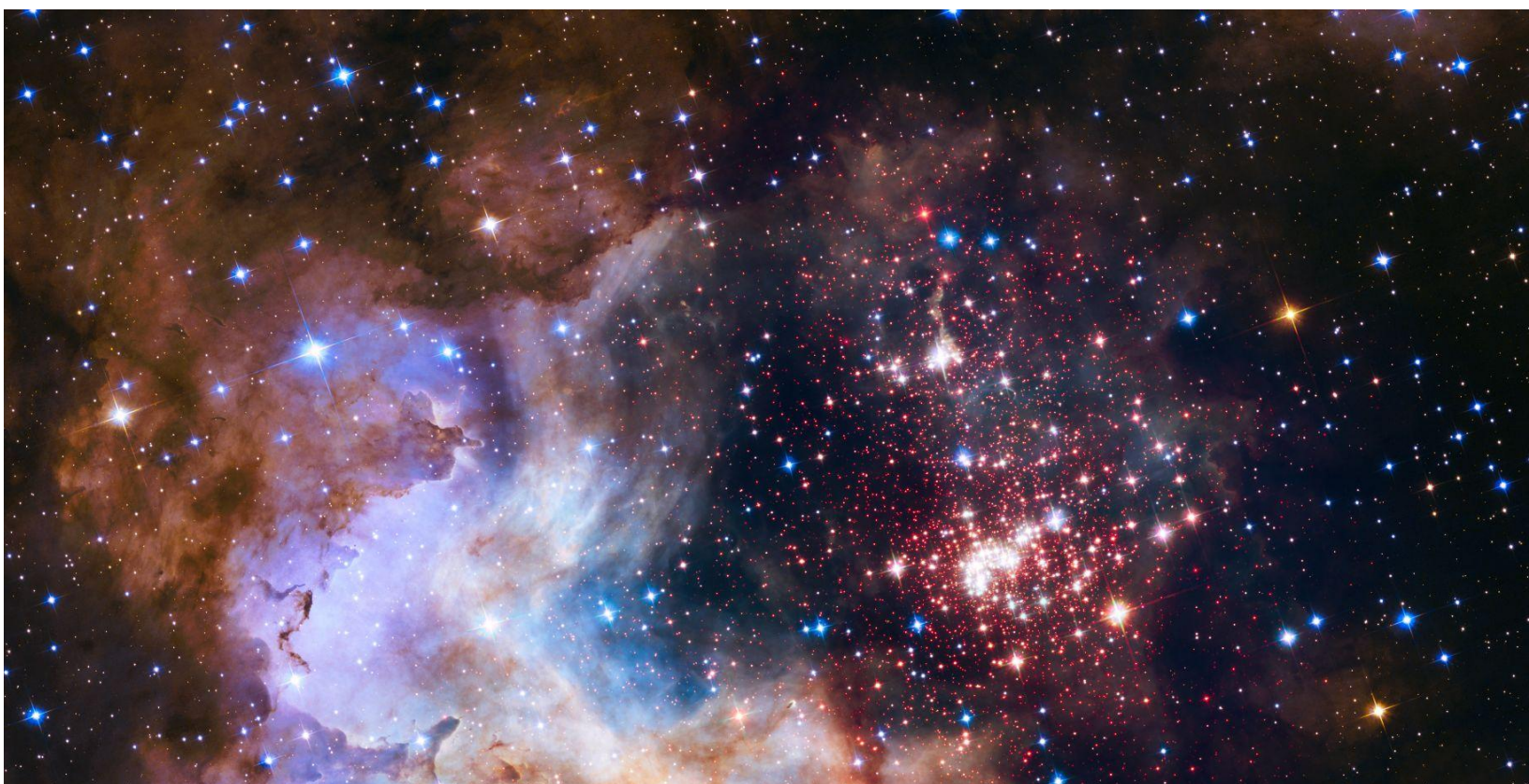# Fusio

Open source API Management

Introduction
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Fusio is an open source API management platform which helps to build and manage REST APIs. Through Fusio you can quickly build a state of the art API, set up a developer portal and monetize your API.
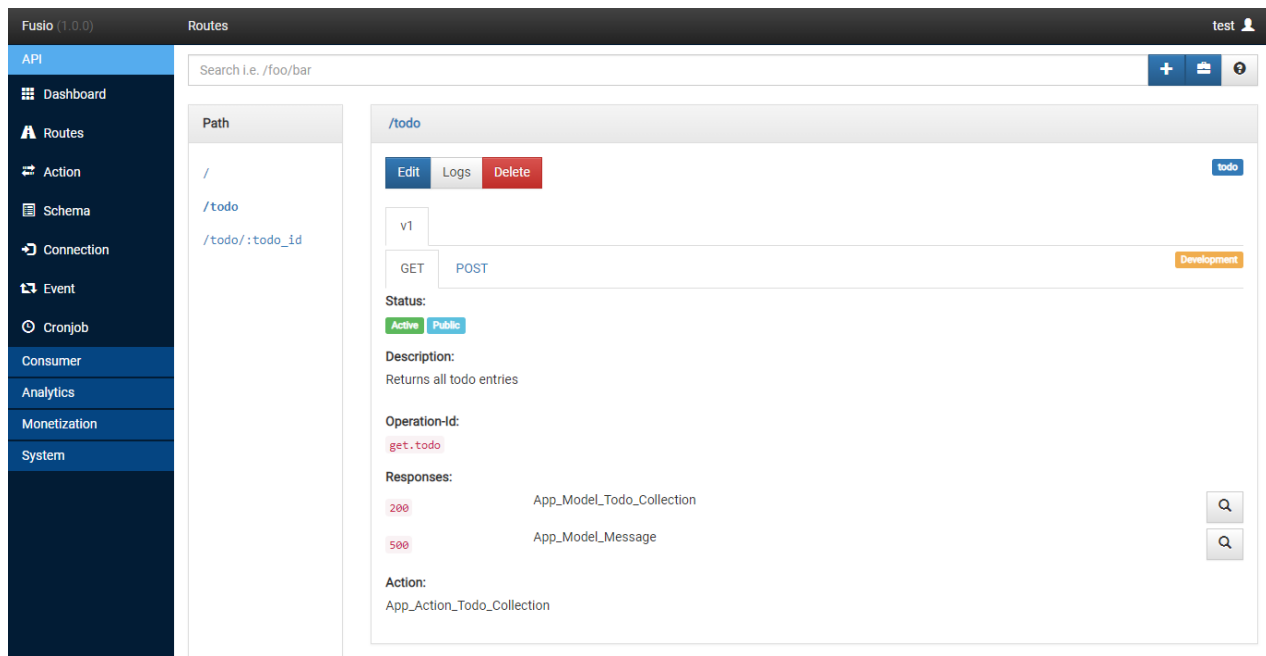
An API is the foundation of the digital transformation, it enables automation and integration of your services into other systems and workflows.

Fusio is self hosted and based on open standards to protect you from vendor lock-in.

Backend

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Fusio provides a simple to use and intuitive backend. Through the backend it is possible to control and manage the complete API.
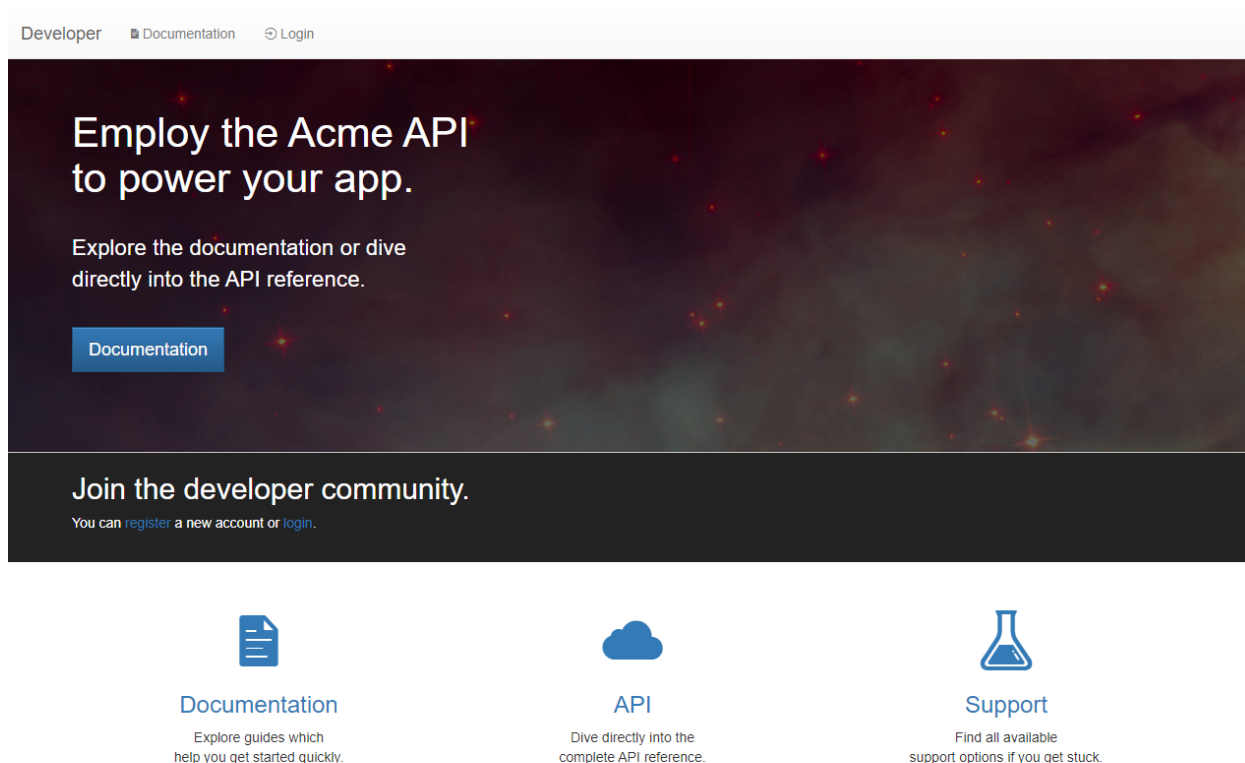

The start of every endpoint is a route. A route contains information like a description or the request and response schema of your endpoint. Every route also contains an assigned action which gets executed if a user invokes this endpoint. An action is a small function which executes your business logic. There are already many build-in actions available i.e. to proxy HTTP requests to an internal API or generate an API based on a database table.

Developer-Portal

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Fusio provides a ready to use developer portal app which you can use to set up your API program. This is the place where developers can register to consume your API.

At the developer app users can register via email registration or a login provider like i.e. Github/Google. Once a user is registered he can create new apps to obtain an Access-Token via OAuth2.

Besides using the developer portal app you can also completely integrate the portal into your existing app since all functionality is accessible via the internal API.

Monetization

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At the backend of Fusio it is possible to create multiple Plans.

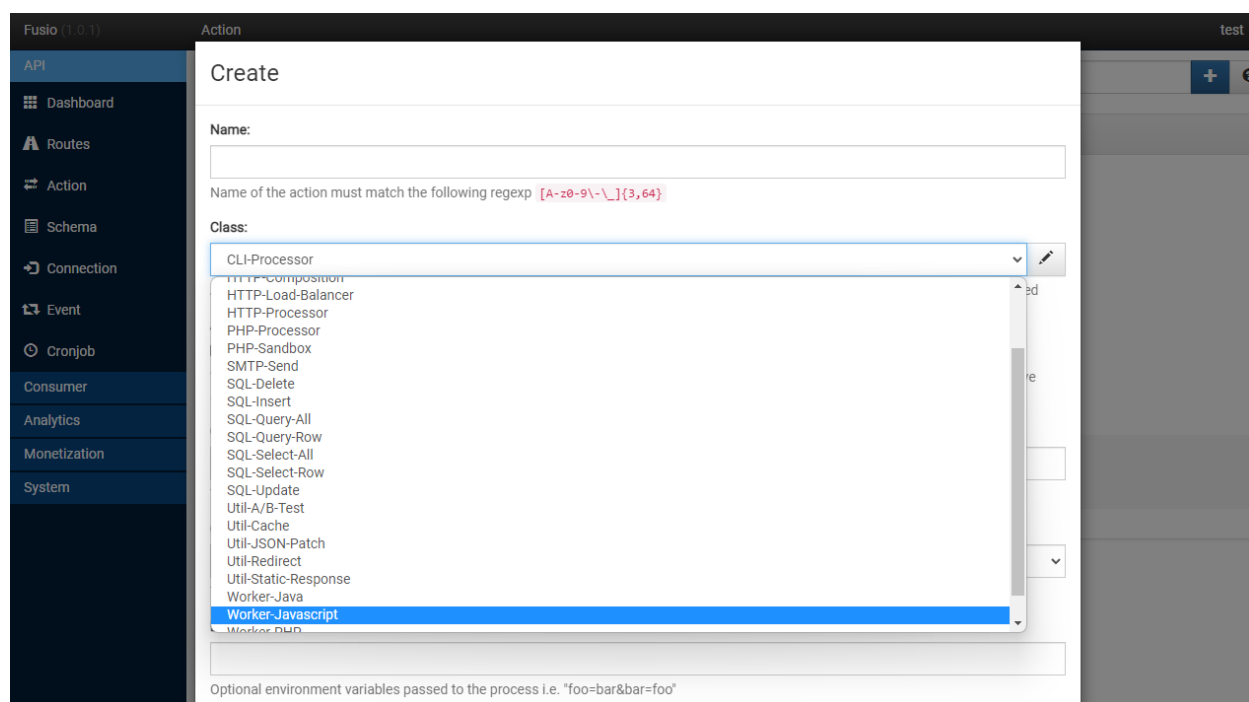

A Plan can then be purchased by a user at the developer portal.

Through a purchase a user receives points. Those points can then be spent to call protected API routes. At the backend you can configure how much a call to a route costs.

Development

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Fusio contains many actions which you can use out of the box to solve various tasks. I.e. to proxy HTTP requests to an internal API or generate an API based on a database table. This means you can build APIs in a Low-Code style without the need to write complex code.
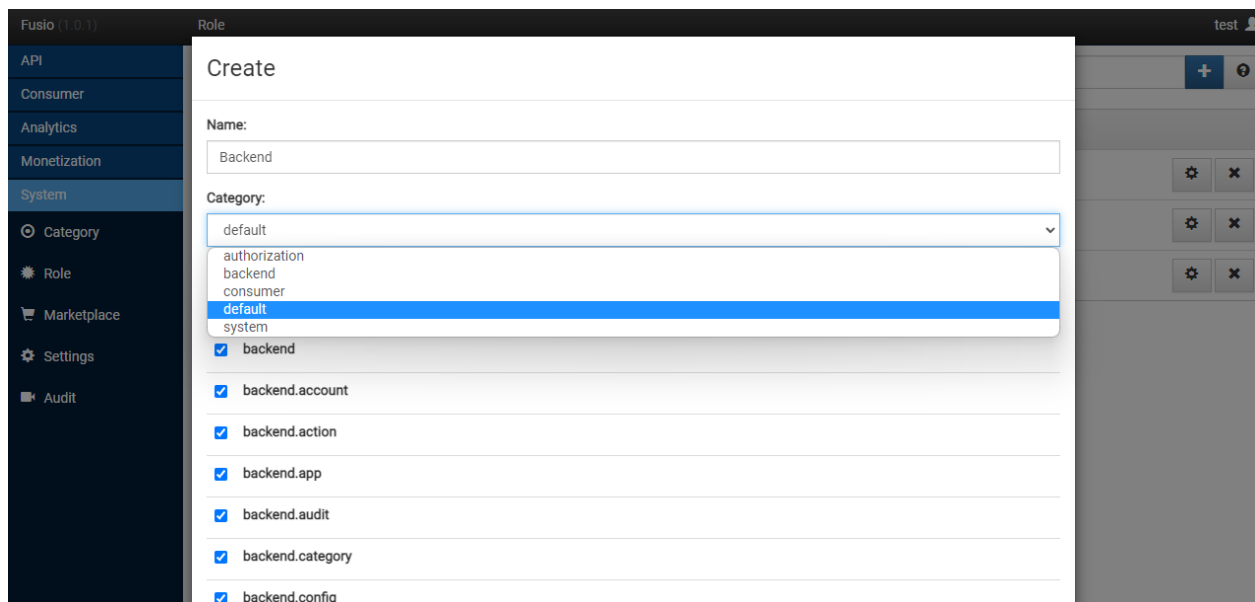

If you need to build an action with custom code you can use the Worker-System which allows you to develop actions in different programming languages, Fusio currently supports Java, Javascript, PHP and Python. This means your developers can choose the language of choice to implement your backend logic.

Multi-Tenancy

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Fusio has a unique concept of categories. Every object like a Route, Action or Schema which create at Fusio is assigned to a specific category. Every user is also assigned to a category via a role and the user then only sees those objects with the same category.
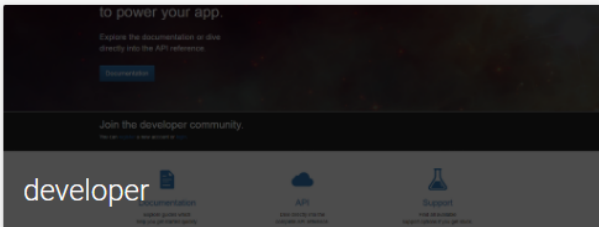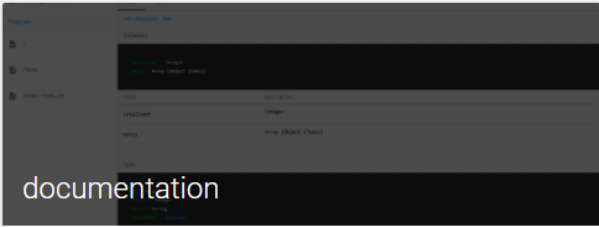

Through this it is possible to split up your API in different categories and give developers access to the backend. A developer can then view and edit only objects for this category. This means you can easily scale the development of an API with multiple developers since each developer/team has its own area without interfering with other developers/teams.

At the and the Lead API Designer can put the created Actions and Schemas together to build the final API product. This provides a new way of task sharing to enable fluent development.

Marketplace

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Fusio provides an Apps Marketplace where you can install different
apps for your API. An App is mostly a simple Javascript app which
provides specific functionality. The previously mentioned backend and
developer app are also only apps which work with the internal API of
Fusio.

Another example is the Swagger-UI app which uses the Swagger-UI
component to render an OpenAPI specification.

SDK

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Fusio has a powerful client SDK code generator included which allows you to generate client SDKs for multiple programming languages. It uses the request/response schema which is attached at every route to generate the code.

You can download these SDKs directly at the backend. Internally it is based on TypeSchema which is an innovative schema specification dedicated to code generation.

License

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Fusio is an open source project which you can use freely also for commercial projects under the terms of the [AGPL](#). We want to build a sustainable open source project with a long term relationship to our users. This means that we are able to develop and build tools around the Fusio ecosystem and that our users can benefit from this. As additional perks we provide [some services](#) to our donors to be even more productive with Fusio.

Support

- Support our ongoing effort to improve Fusio
- Get a Sponsor badge on your profile

$10 a month

DONATE

Generation

- Access to our **apigen.app** code generator
- Generate complete APIs based on Entity or OpenAPI definitions
- Create simple CRUD APIs in minutes
- Deploy the generated code directly to a remote Fusio instance

$20 a month

DONATE

Cloud

- Access to our **fusio.cloud** platform
- Allows you to easily create a Fusio instance in the cloud
- Great for testing and evaluation of Fusio

$50 a month

DONATE

Please checkout our [Github sponsor](#) page for more information. If you have any further questions please use our [contact page](#).