

Dokumentation mirrOS 1.0

Inhaltsverzeichnis

Einleitung

Zweck des Dokuments

Technologien und Frameworks

Frontend

Backend

"Datenbank"

Layout

Localization

mirrOS

Grid-Layout (Modulanordnung)

Größen der Module

Resizing der Module

Layouteinstellungen

Moduleinstellungen (Instanzeinstellungen)

Navigationbar

mirrOS Einstellungen

Background Module (Scripts)

Im neuen mirr.OS soll es möglich sein, bestimmte Module bzw. Scripts einzubinden ohne dafür ein ganzen Modul-Slot belegen zu müssen.

Module

Zweck

Aufbau

```
/fuel
/fuel/info.json
/fuel/sizes.json
/fuel/locales.json
/fuel/module.json
/fuel/seeds.json
/fuel/templates/
/fuel/templates/default.html
/fuel/templates/2x1.html
/fuel/settings/default.html
/fuel/settings/2x1.html
/fuel/scripts/default.html
/fuel/scripts/2x1.html
```

Modulgrößen

```
// sizes.json

{
  "sizes": [
    {
      "name": "default",
      "height": 3,
      "width": 6,
      "template": "default.html",
      "settings": "default.html",
      "script": "default.html"
    },
    {
      "name": "2x1",
      "height": 1,
      "width": 2,
      "template": "2x1.html",
      "settings": "2x1.html",
      "script": "2x1.html"
    },
    {
      "name": "1x1",
      "height": 1,
      "width": 1,
      "template": "1x1.html",
      "settings": "default.html",
      "script": "default.html"
    }
  ]
}
```

Initialisierung bzw. Reset eines Moduls

```
// seeds.json

{
  "data": [
    {
      "key": "fuel_sort_by",
      "value": "name"
    },
    {
      "key": "fuel_max_stations",
      "value": 5
    }
  ]
}
```

Sprachen

```
// locales.json

{
  "locales": {
    "urls": [
      "http://46.101.225.168/glotpress/projects/system/netatmo/",
      "http://46.101.225.168/glotpress/projects/system/"
    ]
  }
}
```

module.json

```
// module.json

{
  "module": {
    "dependencies": {
      "sources": [
        {
          "name": "tankerkoenig",
          "version": "1.0.0",
          "required": true
        },
        {
          "name": "spritpreisrechner",
          "version": "1.0.0",
          "required": true
        }
      ]
    },
    "assets": [
      {
        "url": "https://code.jquery.com/jquery-3.2.1.min.js",
        "group": "script",
        "required_in": [
          "settings/default.html",
          "template/*"
        ]
      },
      {
        "url": "https://opensource.keycdn.com/fontawesome/4.7.0/font-awes
ome.min.css ",
        "group": "stylesheet",
        "required_in": [
          "settings/1x1.html",
          "template/1x1.html"
        ]
      }
    ]
  }
}
```

Modulinstanzen

Modulinstanzen und Speichern der Daten

Datenquellen

Zweck

Aubau

Datenquellen-Typ (z.B "Kalender" oder "Tanken")

Abhängigkeiten

Eigenschaften

Datenquelleninstanz

Datenbankanbindung

Namespacing

Localization

Plattformen

Update-Prozess

Update Interval

API

Groups

`Groups` regeln, welche `Modules` und `Sources` miteinander funktionieren.

So haben zum Beispiel das `Module` `calendar_week` und die `Source` `Google Kalender` beide die `Group` `calendar`. Über diese Beziehung wird die festgelegt, dass `Modules` und `Sources` der gleichen Gruppe miteinander kompatibel sind.

Endpunkte

`/api/groups`

`/api/groups/{group_name}`

Beziehungen

Feld	Model	Identifizier	Beschreibung
category	Category	Category.name	Die Kategoriezugehörigkeit dieser Gruppe
sources	Source	-	Alle Datenquellen die dieser Gruppe angehören
modules	Module	-	Alle Module die dieser Gruppe angehören

Aufbau des Models

```
{
  "name": String,
  "model": Model,
  "category": Category,
  "source_structure": Array,
  "modules": [Module],
  "sources": [Source]
}
```

Beispiel

```
{
  "name": "calendar",
  "model": "group",
  "source_structure": [...],
  "category": "producivity",
  "modules": [...],
  "sources": [...]
}
```

Modules

Endpunkte

- /api/modules
- /api/modules/{module_name}

Beziehungen

Feld	Model	Identifizier	Beschreibung
group	Group	Group.name	Die Gruppe dieses Modules
category	Category	Category.name	Die Kategorie dieses Modules
sources	Source	-	Die mit diesem Modul kompatiblen Datenquellen
language	Language	-	Die zu verfügbaren stehenden Sprachen dieses Moduls

Aufbau des Models

```
{
  "name": String,
  "group": Group,
  "model": Model,
  "author": String,
  "category": Category,
  "version": String,
  "path": String,
  "website": String,
  "sizes": Array,
  "sources": [Source],
  "languages": [Language]
}
```

Beispiel

```
{
  "name": "fuel",
  "group": "fuel",
  "model": "module",
  "author": "Marco Roth",
  "category": "productiviy",
  "version": "1.0.0",
  "path": "/api/sources/modules/fuel",
  "website": "https://glancr.de/modules/productivity/fuel/",
  "sizes": [...],
  "sources": [...],
  "languages": [...]
}
```

ModuleInstances

Endpunkte

```
/api/modules/{module_name}/{instance_id}
/api/modules/{module_name}/{instance_id}/settings
```

Beziehungen

Feld	Model	Identifizier	Beschreibung
module	Module	Module .name	Das übergeordnete Modul dieser Instanz

Aufbau des Models

```
{
  "id": Integer,
  "module": Module,
  "model": Model,
  "path": String,
  "settings": Array,
  "config": {
    "width": Integer,
    "height": Integer,
    "col": Integer,
    "row": Integer
  }
}
```

Beispiel

```
{
  "id": 1,
  "module": "fuel",
  "model": "module_instance",
  "path": "/api/modules/fuel/1",
  "settings": [...],
  "config": {
    "width": 6,
    "height": 3,
    "col": 1,
    "row": 1
  }
}
```

Sources

Endpunkte

`/api/sources`

`/api/sources/{source_name}`

Beziehungen

Feld	Model	Identifizier	Beschreibung
group	<code>Group</code>	<code>Group</code> .name	Die Gruppe dieser Datenquelle
category	<code>Category</code>	<code>Category</code> .name	Die Kategorie dieser Datenquelle
modules	<code>Module</code>	-	Die mit dieser Datenquelle kompatiblen Module
language	<code>Language</code>	-	Die zu verfügbaren stehenden Sprachen dieser Datenquelle

Aufbau des Models

```
{
  "name": String,
  "group": Group,
  "model": Model,
  "category": Category,
  "version": String,
  "author": String,
  "path": String,
  "website": String,
  "modules": [Module],
  "languages": [Language]
}
```

Beispiel

```
{
  "name": "google",
  "group": "calendar",
  "model": "source",
  "category": "productivity",
  "version": "1.0.0",
  "author": "Mattes Angelus",
  "path": "/api/sources/calendar/google/",
  "website": "http://glancr.de/sources/google/",
  "modules": [...],
  "languages": [...]
}
```

SourceInstances

Endpunkte

/api/sources/{source_name}/{instance_id}

/api/modules/{source_name}/{instance_id}/settings

/api/modules/{source_name}/{instance_id}/data

Beziehungen

Feld	Model	Identifizier	Beschreibung
category	Category	Category .name	Die Kategoriezugehörigkeit dieses Typs
sources	Source	-	Die vom diesem Typ verfügbaren Dateiquellen
modules	Module	-	Die vom diesem Typ verfügbaren Module

Aufbau des Models

```
{
  "id": Integer,
  "source": Source,
  "model": Model,
  "path": String,
  "data": Array,
  "settings": Array
}
```

Beispiel

```
{
  "id": 1,
  "source": "google",
  "model": "source_instance",
  "path": "/api/sources/google/1",
  "data": [],
  "settings": []
}
```

Categories

Endpunkte

/api/categories

/api/categories/{category_name}

Beziehungen

Feld	Model	Identifizier	Beschreibung
sources	Source	-	Datenquellen, die dieser Kategorie angehören
modules	Module	-	Module, die dieser Kategorie angehören

Aufbau des Models

```
{
  "name": String,
  "model": Model,
  "path": String,
  "website": String,
  "modules": [Module],
  "sources": [Source]
}
```

Beispiel

```
{
  "name": "productivity",
  "model": "category",
  "path": "/api/categories/productivity/",
  "website": "http://glancr.de/modules/productivity/",
  "modules": [...],
  "sources": [...]
}
```

Languages

Endpunkte

/api/languages

/api/languages/{language_name}

Beziehungen

Feld	Model	Identifizier	Beschreibung
sources	Source	-	Datenquellen, die diese Sprache unterstützen
modules	Module	-	Module, die diese Sprache unterstützen

Aufbau des Models

```
{  
  "name": String,  
  "code": String,  
  "model": Model,  
  "path": String,  
  "modules": [Module],  
  "sources": [Source]  
}
```

Beispiel

```
{  
  "name": "Deutsch",  
  "code": "de_DE",  
  "model": "language",  
  "path": "/api/languages/de_DE",  
  "modules": [...],  
  "sources": [...]  
}
```

Endpunkte

`/api`

```
// Example: /api

{
  "name": "Glancr mirrOS",
  "version": "1.0.0",
  "webserver": "Apache 2",
  "device": "Raspberry 3",
  "os": "Raspian X.Y",
  "endpoints": [
    "/api/info",
    "/api/user",
    ...
  ],
  "documentation": "https://glancr.de/api-documentation"
}
```

/api/user

```
// Example: /api/user

{
  "name": "Marco Roth",
  "firstname": "Marco",
  "lastname": "Roth",
  "email": "marco.roth@intergga.ch",
  "city": "Basel",
  "country": "CH",
  "language": "de_DE"
}
```

/api/groups

```
// Example: /api/groups
```

```
{
  "groups": [
    {
      "name": "calendar",
      "modules": [
        { "name": "calendar_week", ... },
        { "name": "calendar_today", ... },
        { "name": "calendar_next", ... }
      ],
      "sources": [
        { "name": "google", ... },
        { "name": "icloud", ... },
        { "name": "ical", ... }
      ]
    },
    {
      "name": "fuel",
      "modules": [
        { "name": "fuel", ... }
      ],
      "sources": [
        { "name": "Tankerkönig", ... },
        { "name": "Spritpreisrechner", ... }
      ]
    }
  ]
}
```

/api/groups/{group_name}

```
// Example: /api/groups/calendar
```

```
{
}
```

/api/sources


```
// Example: /api/sources
```

```
{
  "sources": [
    {
      "name": "google",
      "group": "calendar",
      "version": "1.0.0",
      "author": "Mattes Angelus",
      "path": "/api/sources/calendar/google",
      "website": "https://google.com"
    },
    {
      "name": "tankerkoenig",
      "group": "fuel",
      "version": "1.0.0",
      "path": "/api/sources/fuel/tankerkoenig",
      "website": "https://google.com"
    }
  ]
}
```

/api/sources/{source_name}

// Example: /api/sources/calendar

```
{
  "group": "calendar",
  "sources": [
    {
      "name": "google",
      "group": "calendar",
      "version": "1.0.0",
      "author": "Marco Roth",
      "path": "/api/sources/calendar/google"
    },
    {
      "name": "icloud",
      "group": "calendar",
      "version": "1.0.0",
      "author": "Marco Roth",
      "path": "/api/sources/calendar/icloud"
    },
    {
      "name": "ical",
      "group": "calendar",
      "version": "1.0.0",
      "author": "Marco Roth",
      "path": "/api/sources/calendar/ical"
    }
  ]
}
```

/api/sources/{source_name}/{instance_id}

// Example: /api/sources/calendar/1/

```
{
}
```

/api/sources/{source_name}/{instance_id}/settings

// Example: /api/sources/calendar/1/settings

```
{
}
```

/api/sources/{source_name}/{instance_id}/data

// Example: /api/sources/calendar/1/data

```
{  
  
}
```

/api/modules

// Example: /api/modules

```
{  
  "modules": [  
    {  
      "name": "fuel",  
      "group": "fuel",  
      "author": "Marco Roth",  
      "version": "1.0.0",  
      "path": "/api/sources/fuel/fuel"  
    },  
    {  
      "name": "calendar_week",  
      "group": "calendar",  
      "author": "Mattes Angelus",  
      "version": "1.0.0",  
      "path": "/api/sources/calendar/calendar_week"  
    }  
  ]  
}
```

/api/modules/{module_name}

// Example: /api/modules/fuel

```
{  
  
}
```

/api/modules/{module_name}/{instance_id}

```
// Example: /api/modules/fuel/1
```

```
{  
  
}
```

/api/modules/{module_name}/{instance_id}/settings

```
// Example: /api/modules/fuel/1/settings
```

```
{  
  
}
```

/api/categories

```
// Example: /api/categories
```

```
{  
  "categories": [  
    {  
    }  
  ]  
}
```

/api/categories/{category_name}

```
// Example: /api/modules/categories/productivity
```

```
{  
  
}
```