Drupal and Astro

Build a fully decoupled application with Drupal and Astro

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14 years experience with Drupal

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Concentrix

Concentrix is a customer engagement and business performance consulting firm based in the United States. Concentrix has been a subsidiary of SYNNEX Corporation (NYSE: SNX) since 2006 and went public in 2020. Concentrix's headquarters are located in Fremont, California.

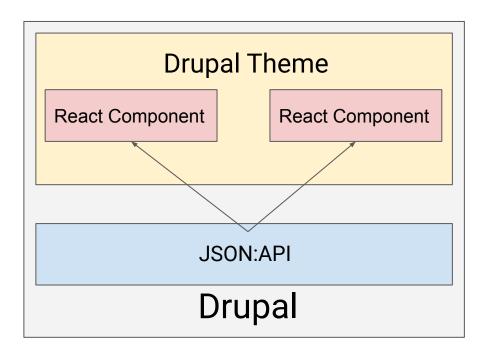
Building an employee ideation platform with Drupal.



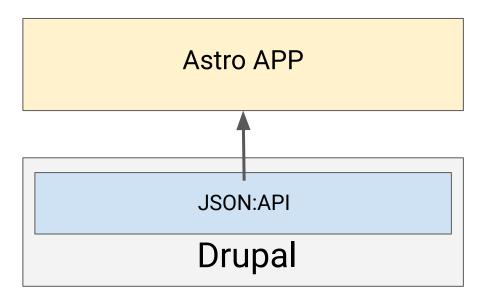
Agenda

- Progressive decoupled vs fully decoupled vs Headless
- Astro Concepts
- Drupal JSON:API
- Drupal+Astro

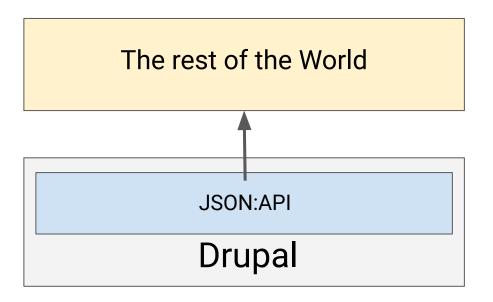
Progressive Decoupled



Decoupled



Headless



Astro

Astro is the web framework for building **content-driven websites** like blogs, marketing, and e-commerce.

Astro is best-known for pioneering a new <u>frontend architecture</u> to reduce JavaScript overhead and complexity compared to other frameworks, providing fast loading and great SEO.

The most important thing to know about Astro components is that they **don't** render on the client.

They render to HTML either at build-time or on-demand using <u>server-side</u> <u>rendering (SSR)</u>.

Features

- Islands: A component-based web architecture optimized for content-driven websites.
- UI-agnostic: Supports React, Preact, Svelte, Vue, Solid, Lit, HTMX, web components, and more.
- Server-first: Moves expensive rendering off of your visitors' devices.
- Zero JS, by default: Less client-side JavaScript to slow your site down.
- Content collections: Organize, validate, and provide TypeScript type-safety for your Markdown content.
- Customizable: Tailwind, MDX, and hundreds of integrations to choose from.

Installation

Prerequisites

- Node.js v18.14.1 or higher.
- Text editor Official Astro extension for VS Code and JetBrains.
- **Terminal** Astro is accessed through its command-line interface (CLI).

create a new project with npm
npm create astro@latest

Installation process

```
astro
       Launch sequence initiated.
 dir
       Where should we create your new project?
        ./my-astro-project
tmpl
       How would you like to start your new project?
        Include sample files
       Do you plan to write TypeScript?
        Yes
       How strict should TypeScript be?
 use
        Strict
        Install dependencies?
deps
        Yes
        Initialize a new git repository?
 git
        Yes
```

Installation completed

- Project initialized!
 - Template copied
 - TypeScript customized
 - Dependencies installed
 - Git initialized

next Liftoff confirmed. Explore your project!

Enter your project directory using cd ./my-astro-project Run npm run dev to start the dev server. CTRL+C to stop. Add frameworks like react or tailwind using astro add.

Stuck? Join us at https://astro.build/chat

Houston:

Good luck out there, astronaut! 🚀



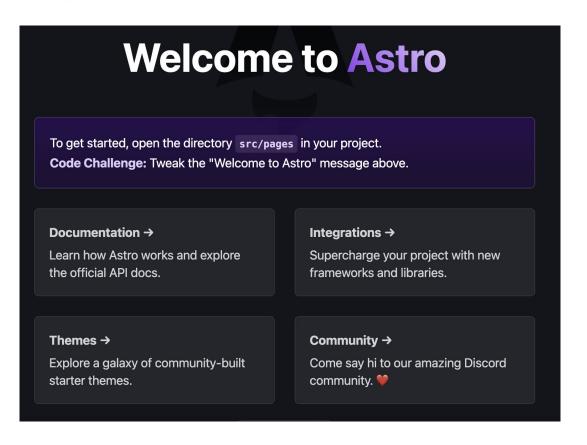
Start Astro

[vincenzo.gambino@Vincenzo's-MacBook-Air DrupalAstro % cd my-astro-project [vincenzo.gambino@Vincenzo's-MacBook-Air my-astro-project % npm run dev

- > my-astro-project@0.0.1 dev
- > astro dev
- ▶ Astro collects anonymous usage data. This information helps us improve Astro. Run "astro telemetry disable" to opt-out. https://astro.build/telemetry

```
Local http://localhost:4321/
Network use --host to expose
```

Astro homepage



Project Structure

Astro leverages an opinionated folder layout for your project. Every Astro project root should include the following directories and files:

- src/* Your project source code (components, pages, styles, etc.)
- public/* Your non-code, unprocessed assets (fonts, icons, etc.)
- package.json A project manifest.
- astro.config.mjs An Astro configuration file. (recommended)
- tsconfig.json A TypeScript configuration file. (recommended)

Astro Components

Astro components are the basic building blocks of any Astro project. They are HTML-only templating components with no client-side runtime. You can spot an Astro component by its file extension: .astro.

They render to HTML either at build-time or on-demand using <u>server-side</u> <u>rendering (SSR)</u>.

You can include JavaScript code inside of your component frontmatter, and all of it will be stripped from the final page sent to your users' browsers.

The result is a faster site, with zero JavaScript footprint added by default.

Component Structure

File: src/component/HelloComponent.astro

```
// Frontmatter: Component Script (JavaScript)
const name = 'Drupal';
<!-- Component Template (HTML + JS Expressions) -->
Hello { name }!
<!-- Usage: <HelloComponent /> -->
```

Component Example with Props

```
const { greeting, name } = Astro.props;

---
<h2>{greeting}, {name}!</h2>
```

Component Example with Props

```
import GreetingHeadline from './GreetingHeadline.astro';
const name = 'Drupal';
<h1>Greeting Card</h1>
<GreetingHeadline greeting="Hi" name={name} />
I hope you have a wonderful day!
```

Add custom style to a page/component

```
const { greeting, name } = Astro.props;
\langle h2 \rangle \{qreeting\}, \{name\}! \langle /h2 \rangle
<style>
   h2 {
         font-size: 18px;
</style>
```

Add custom global style to a page/component

```
const { greeting, name } = Astro.props;
\langle h2 \rangle \{qreeting\}, \{name\}! \langle /h2 \rangle
<style is:global>
   h2 {
         font-size: 18px;
</style>
```

Combining classes with class:list

```
const { isRed } = Astro.props;
<!-- If `isRed` is truthy, class will be "box red". →
<!-- If `isRed` is falsy, class will be "box". -->
<div class:list={['box', { red: isRed }]}><slot /></div>
<style>
   .box { border: 1px solid blue; }
   .red { border-color: red; }
</style>
```

CSS Variables

```
const foregroundColor = "rgb(221 243 228)";
const backgroundColor = "rgb(24 121 78)";
<style define:vars={{ foregroundColor, backgroundColor }}>
  h1 {
       background-color: var(--backgroundColor);
       color: var(--foregroundColor);
</style>
<h1>Hello</h1>
```

Tailwind integration

Tailwind lets you use utility classes instead of writing CSS.

These utility classes are mostly one-to-one with a certain CSS property setting: for example, adding the text-lg to an element is equivalent to setting font-size: 1.125rem in CSS.

Installation:

add tailwind integration with npm
npm astro add tailwind

astro.config.mjs

tailwind.config.mjs

```
/** @type {import('tailwindcss').Config} */
export default {
  content: ['./src/**/*.{astro,html,js,jsx,md,mdx,svelte,ts,tsx,vue}'],
  theme: {
    extend: {},
  },
  plugins: [],
};
```

Tailwind Example

```
const { greeting, name } = Astro.props;

---
<h2 class="text-4xl font-extrabold">{greeting}, {name}!</h2>
```

Add JavaScript to the page

```
const { greeting, name } = Astro.props;
\langle h2 \rangle \{qreeting\}, \{name\}! \langle /h2 \rangle
<script define-vars={{ name }}>
   alert(`Hello{name}`);
</script>
```

Import Local Scripts

File: src/components/GreetingHeadline.astro const { greeting, name } = Astro.props; $\langle h2 \rangle \{ greeting \}$, $\{ name \} ! \langle /h2 \rangle$ <!-- relative path to script at `src/scripts/local.js` --> <script src="../scripts/local.js"></script> <!-- also works for local TypeScript files --> <script src="./script-with-types.ts" ></script>

Import External Scripts

File: src/components/GreetingHeadline.astro const { greeting, name } = Astro.props; $\langle h2 \rangle \{ greeting \}$, $\{ name \} ! \langle /h2 \rangle$ <!-- absolute path to a script at `public/my-script.js` --> <script is:inline src="/my-script.js"></script> <!-- full URL to a script on a remote server --> <script is:inline src="https://my-analytics.com/script.js"></script>

Alert Button component

File: src/components/AlertButton.astro <button class="alert">Click me!</button> <script> // Find all buttons with the `alert` class on the page. const buttons = document.querySelectorAll('button.alert'); // Handle clicks on each button. buttons.forEach((button) => { button.addEventListener('click', () => { alert('Button was clicked!'); }); }); </script> // Usage <AlertButton />

Astro Island

In Astro, an "island" refers to any interactive UI component on the page.

The most obvious benefit of building with Astro Islands is performance: the majority of your website is converted to fast, static HTML and JavaScript is only loaded for the individual components that need it.

You can tell Astro exactly how and when to render each component attaching a special <u>client directive</u> that tells Astro to only load the island when it becomes visible on the page. If the user never sees it, it never loads

Install React

```
Installation:
```

```
# add react integration with npm
npm astro add react
```

Counter.jsx Component

```
import { useState } from 'react';
export default function Counter() {
   const [count, setCount] = useState(0);
   function handleClick() {
       setCount (count + 1);
   return (
       <button onClick={handleClick}>
           You pressed me { count } times
       </button>
   );
```

Example

File: src/components/CounterCard.astro import Counter from './Counter.jsx'; const name = 'Drupal'; <h1>Counter Card</h1> <Counter client:visible /> I hope you have a wonderful day!

Client Directives

client:load - Load and hydrate the component JavaScript immediately on page load

client:idle - Load and hydrate the component JavaScript once the page is done with its initial load and the requestIdleCallback event has fired.

client:visible - Load and hydrate the component JavaScript once the component has entered the user's viewport.

client:visible={{rootMargin}} When rootMargin is specified, the
component JavaScript will hydrate when a specified margin (in pixels) around the
component enters the viewport, rather than the component itself.

Pages

Pages are files that live in the src/pages/ subdirectory of your Astro project. They are responsible for handling routing, data loading, and overall page layout for every page in your website.

Astro supports the following file types in the src/pages/ directory:

- .astro
- .md
- .mdx (with the MDX Integration installed)
- .html
- .js/.ts (as endpoints)

Routing

Astro leverages a routing strategy called file-based routing. Each file in your src/pages/ directory becomes an endpoint on your site based on its file path.

/src/pages/about-us.astro is reachable at www.yoursite.com/about-us

A single file can also generate multiple pages using dynamic routing. This allows you to create pages even if your content lives outside of the special /pages/ directory, such as in a content collection or a CMS.

Routing Structure

- src
 - pages
 - index.astro
 - about-us.astro
 - recipes/
 - index.astro
 - [slug].astro
 - articles/
 - [page].astro
 - [id].astro
 - [...slug].astro

Page example

```
File: src/pages/index.astro (Homepage)
const pageTitle = 'Umami Demo';
<html lang="en">
  <head>
   <title>{pageTitle}</title>
  </head>
  <body>
   <h1>Welcome to {pageTitle}!</h1>
  </body>
</html>
```

Page example

```
File: src/pages/about-us.astro (/about-us)
const pageTitle = 'About US | Umami Demo';
<html lang="en">
  <head>
   <title>{pageTitle}</title>
  </head>
  <body>
   <h1>Welcome to {pageTitle}!</h1>
  </body>
</html>
```

Slots

</html>

```
File: src/Layouts/Layout.astro
const {pageTitle} = Astro.props;
<html lang="en">
  <head>
   <title>{pageTitle}</title>
  </head>
  <body>
   <slot />
  </body>
```

Slot

```
File: src/pages/index.astro
import Layout from '../layouts/Layout.astro';
<Layout pageTitle='Umami Demo'>
   <h1>Welcome to Umami demo!</h1>
<Layout />
```

Data fetching

```
import Layout from '../layouts/Layout.astro';
const response = await fetch('https://randomuser.me/api/');
const data = await response.json();
const randomUser = data.results[0];
<Layout title='Umami Demo'>
  <h1>User</h1>
  <h2>{randomUser.name.first} {randomUser.name.last}</h2>
<Layout />
```

Dynamic Route

An Astro page file can specify dynamic route parameters in its filename to generate multiple, matching pages.

For example, **src/pages/recipes/[recipe].astro** generates a page for every recipe on your app and **recipe** becomes a parameter that you can access from inside the page.

In Astro's default static output mode, these pages are generated at build time, and so you must predetermine the list of recipe that get a corresponding file. In SSR mode, a page will be generated on request for any route that matches.

Dynamic Route SSG

Because all routes must be determined at build time, a dynamic route must export a **getStaticPaths()** that returns an array of objects with a params property. Each of these objects will generate a corresponding route.

[id].astro defines the dynamic id parameter in its filename, so the objects returned by getStaticPaths() must include id in their params. The page can then access this parameter using Astro.params.

Dynamic Route Example

File: src/pages/[id].astro

```
export function getStaticPaths() {
  return [
       {params: {id: 'cliff'}, props: {title: 'Cliff'}}, //Path: /cliff
       {params: {id: 'rover'}, props: {title: 'Rover'}}, //Path: /rover
       {params: {id: 'spot'}, props: {title: 'Sport'}} //Path:/spot
  ];
const {id} = Astro.params;
const {title} = Astro.props;
<div>Your ID is, {id} and your title is {title}!</div>
```

Recipes pages:

File: src/pages/[recipe].astro

```
export async function getStaticPaths() {
   const recipes = await getRecipes();
   return recipes.map((recipe) => {
  return {
       params: { recipe: recipe.path.alias },
       props: { recipe: recipe}
  });
const {recipe} = Astro.props;
<h1>{ recipe.title }</h1>
```

Drupal REST and JSON:API

REST API vs JSON:API

Choose REST if you have non-entity data you want to expose. In all other cases, choose JSON:API.

Core's REST module allows for anything (any format, any logic, any HTTP method) and extreme configurability. Powerful but complex and hence relatively brittle.

JSON:API focuses on exposing Drupal's biggest strength (entities/data modeling) in a coherent manner. Simple yet sufficiently powerful for most use cases.

JSON:API

JSON:API is designed to minimize both the number of requests and the amount of data transmitted between clients and servers.

This efficiency is achieved without compromising readability, flexibility, or discoverability.

Defines how a client should request that resources be fetched or modified, and how a server should respond to those requests.

HTTP Methods

GET - Retrieve data, can be a collection of resources or an individual resource

POST - Create a new resource

PATCH - Update an existing resource

DELETE - Remove an existing resource

URL Structure

GET, POST

```
/jsonapi/{entity_type_id}/{bundle_id}
/jsonapi/node/article (list of articles)
/jsonapi/{entity_type_id}/{bundle_id}/{entity_uuid}
```

/jsonapi/node/article/2ee9f0ef-1b25-4bbe-a00f-8649c68b1f7e (a specific article)

PATCH, DELETE

/jsonapi/{entity_type_id}/{bundle_id}/{entity_uuid}

/jsonapi/node/article/2ee9f0ef-1b25-4bbe-a00f-8649c68b1f7e

Basic Response

```
data: {
    type: "node--article",
    id: "2ee9f0ef-1b25-4bbe-a00f-8649c68b1f7e;"
    attributes: {
        title: "Testing JSON:API",
        created: "2024-02-16T18:11:47+00:00",
        changed: "2024-02-16T18:11:46+00:00",
    relationships: {...},
```

Relationships user

```
data: {
   type: "node--article",
    id: "2ee9f0ef-1b25-4bbe-a00f-8649c68b1f7e",
    attributes: {...},
    relationships: {
        uid: {
            data: {
                type: "user-user",
                id: "d3c1fdb2-b937-41b3-83e9-ea70944a89cc"
```

Relationships Taxonomy

```
data: {
    type: "node--article",
    id: "2ee9f0ef-1b25-4bbe-a00f-8649c68b1f7e",
    attributes: {...},
    relationships: {
        field tags: {
            data: {
                type: "taxonomy-term--tags",
                id: "d3c1fdb2-b937-41b3-83e9-ea70944a89cc"
```

Retrieving certain fields

Retrieve only certain field by adding the Query String *field* to the request.

GET: /jsonapi/{entity_type_id}/{bundle_id}?field[entity_type]=field_list

Examples:

/jsonapi/node/article?fields[node--article]=title,created

/jsonapi/node/article/2ee9f0ef-1b25-4bbe-a00f-8649c68b1f7e?fields[node--article] e]=title,created,body

Response with fields

```
data: {
    type: "node--article",
    id: "2ee9f0ef-1b25-4bbe-a00f-8649c68b1f7e"
    attributes: {
       title: "Testing JSON:API",
       created: "2024-02-16T18:11:47+00:00",
       body: {
           value: "This is my testing node",
           format: "basic html",
           processed: "This is my testing node",
           summary: ""
```

Filtering

Add a filter to your request by adding the *filter* Query String.

The simplest, most common filter is a key-value filter: ?filter[field_name]=value&filter[field_other]=value

Examples:

?filter[title]=Testing JSON:API&filter[status]=1

?fields[node--article]=title&filter[title]=Testing JSON:API

Filtering Options

```
\Drupal\jsonapi\Query\EntityCondition::\$allowedOperators = [
  '=', '<>',
  '>', '>=', '<', '<=',
  'STARTS_WITH', 'CONTAINS', 'ENDS_WITH',
  'IN', 'NOT IN',
  'BETWEEN', 'NOT BETWEEN',
  'IS NULL', 'IS NOT NULL',
```

Filtering Examples

Simple Filtering

filter[filter-name][condition][path]=my_field

filter[filter-name][condition][operator]=allowedOperators

Filter[filter-name][condition][value] =value

Array of values

filter[username-filter][condition][path]=uid.name

filter[username-filter][condition][operator]=IN

filter[username-filter][condition][value][1]=admin

filter[username-filter][condition][value][2]=john

Sorting

Add a sorting to your request by adding the **sort** Query String.

The default sorting is ascending.

Sort a collection by its "created" timestamp ASC

?filter[status]=1&sort=created

Sort a collection by "created" timestamp, in descending order.

?filter[status]=1&sort=-created

Pagination

Add a filter to your request by adding the page[limit] Query String.

/jsonapi/{entity_type_id}/{bundle_id}?field[entity_type]=field_list&page[limit]=limit

Example:

/jsonapi/node/article?fields[node--article]=title,created&page[limit]=10

Result with pagination

```
"data": [
       {"type": "node-article", "id":
"2ee9f0ef-1b25-4bbe-a00f-8649c68b1f7e" },
       {"type": "node-article", "id":
"2ee9f0ef-1b25-4bbe-a00f-8649c68b1f7e" },
       {"type": "node-article", "id":
"2ee9f0ef-1b25-4bbe-a00f-8649c68b1f7e" }
   "links": {
       "self": "<collection url>?page[offset]=3&page[limit]=3",
       "next": "<collection url>?page[offset]=6&page[limit]=3",
       "prev": "<collection url>?page[offset]=0&page[limit]=3"
```

Includes

Include all related entities using the **include** query string.

/jsonapi/{entity_type_id}/{bundle_id}?field[entity_type]=field_list&include=field_na me

Example

/jsonapi/node/article?fields[node--article]=title&include=uid

Response Example

```
data: {
    type: "node--article",
    id: "2ee9f0ef-1b25-4bbe-a00f-8649c68b1f7e",
    attributes: {
        title: "Testing JSON:API",
},
included: {
    type: "user--user",
    id: "23219f0ef-1b25-4bbe-a00f-8649c68b1f67",
    attributes: {
        name: "John",
        . . .
```

Response with Tags

```
Request:
jsonapi/node/article?fields[node--article]=title&include=field_tags&fields[taxonomy_term--tags]=name
   data: {...},
    included: [{
         type: "taxonomy term--tags",
         id: "2ac25ebd-27a1-4898-92dc-2ac8ebd43088",
         attributes: {
             name: "This is the tag name"
```

Drupal Modules

List of modules

Subrequests

Simple Oauth

JSON:API Extras

JSON:API Menu Items

JSON:API Image Style

JSON:API Include

JSON:API Views

And more...

Astro+Drupal

Umami Demo

Creator: Vincenzo Gambino

Collaborator: Francesco Battaglia

Reviewer: Christopher Pecoraro

Live Demo: https://astrojs-drupal-umami.netlify.app/

Contribute: https://github.com/VincenzoGambino/astrojs-drupal-umami

DrupalJSONAPI Params

This module provides a helper Class to create the required query. While doing so, it also tries to optimise the query by using the short form, whenever possible.

Installation:

```
# add drupal-jsonapi-params integration with npm
npm i drupal-jsonapi-params
```

From `jsonapi/node/article?fields['node—article']=title&filter[title]={title}`

DrupalJSONAPI Params Example

DrupalJSONAPI Params Example

```
const params = new DrupalJsonApiParams();
params.addFields("node--article", ["title", "path", "field media image"])
   .addInclude(["field media image.field media image"])
   .addFields ("media--image", ["field media image"])
   .addFields("file--file", ["uri", "image style uri", "resourceIdObjMeta"])
   .addFilter("status", "1")
   .addSort("created", "DESC");
const path = params.getQueryString();
```

Jsona

This package helps formatting the JSON:API response.

It removed unnecessary nestings and add the includes under the field objects.

Installation

```
# add asona integration with npm
npm i jsona
```

Before Jsona

```
const json = {
  data: {
       attributes: {...},
       relationships: {
           uid: {
               data: {
                   type: "user--user",
                   id: "53bb14cc-544a-4cf2-88e8-e9cdd0b6948f"
   },
   included: [{
       type: "user--user",
       id: "23219f0ef-1b25-4bbe-a00f-8649c68b1f67",
       attributes: {
           name: "John",
   } ]
```

After Jsona

```
const dataFormatter: Jsona = new Jsona();
const data = dataFormatter.deserialize(json);
// Output of data
   title: "Drupal JSON:API",
   uid: {
       type: "user--user",
       id: "53bb14cc-544a-4cf2-88e8-e9cdd0b6948f"
       name: "John",
   relationshipNames: ['uid']
```

Home » Recipes » Watercress Soup

Watercress soup

Categories: Starters

Tags: Soup Vegetarian

A wonderfully simple and light soup, making the most of seasonal, local produce.















Difficulty: easy

Ingredients

3 bunches watercress

3 potatoes

3 onions

2 leeks

800ml stock

5 tbsp crème fraîche

Directions

- 1. Prepare the vegetables by peeling and chopping the potatoes, finely chopping the onions, leeks
- 2. Heat a little oil in a pan and add the chopped vegetables, gently cooking them for about 5
- 3. Add the vegetable stock to the same pan and turn up the heat until simmering, adding the watercress after about 10 minutes. Cook until all the vegetables are soft and easily mashed.
- 4. Liquidize the soup either with a hand blender or in a mixer, until smooth.
- 5. If the soup has cooled too much whilst being liquidized, stir in the crème fraîche and reheat before serving (otherwise serve straight away). Season to taste.

Recipe Pages

Route: /recipes/url-alias

Create a file under src/pages/recipes and name it [recipe].astro

[recipe] will be the url alias.

In the frontmatter, inside the **getStaticPath()** function, we will get the collection of all recipes, we will loop through the collection, map the path alias to recipe and then pass the content to the props.

We can get a collection of recipes through the function getRecipes().

getRecipes()

```
export const getRecipes = async (): Promise<DrupalNode[]> => {
  const params: DrupalJsonApiParams = new DrupalJsonApiParams();
  params.addFields("node--recipe", [
       "title", "status", "path", "field recipe category", "field cooking time",
       "field difficulty", "field ingredients", "field number of servings",
       "field preparation time", "field recipe instruction", "field summary",
       "field tags", "field media image",
  ])
       .addInclude([
           "field media image.field media image",
           "field recipe category",
           "field tags",
       .addFields("media--image", ["field media image"])
       .addFields("file--file", ["uri", "resourceIdObjMeta"])
       .addFields("taxonomy term--recipe category", ["name", "path"])
       .addFields("taxonomy term--tags", ["name", "path"])
       .addFilter("status", "1");
  const path: string = params.getQueryString();
  return await fetchUrl(baseUrl + '/jsonapi/node/recipe?' + path);
```

fetch()

```
export const fetchUrl = async (url: string): Promise<any> => {
   const request: Response = await fetch(url);
   const json: string | TJsonApiBody = await request.json();
   const dataFormatter: Jsona = new Jsona();
   return dataFormatter.deserialize(json);
}
```

Recipes Page

File: src/pages/recipes/[recipe].astro

```
export async function getStaticPaths() {
  const recipes = await getRecipes();
    return recipes.map((recipe: DrupalNode) => {
       return {
           params: {
               recipe: recipe.path.alias.split('/')[2]
           },
           props: {
               recipe: recipe,
   });
const {recipe} = Astro.props;
<h1>{recipe.title}</h1>
```

Recipes

Deep mediterranean quiche

Difficulty: Medium



VIEW RECIPE >

Vegan chocolate and nut brownies

Difficulty: Medium



VIEW RECIPE >

Super easy vegetarian pasta bake

Difficulty: Easy



VIEW RECIPE >

Watercress soup

Difficulty: Easy



VIEW RECIPE >

Victoria sponge cake

Difficulty: Easy



VIEW RECIPE >

Gluten free pizza



VIEW RECIPE >

Thai green curry





VIEW RECIPE >

Crema catalana

Difficulty: Medium



VIEW RECIPE >

Fiery chili sauce

Difficulty: Easy



VIEW RECIPE >

Borscht with pork ribs

Difficulty: Medium



VIEW RECIPE >

Recipe Listing page

Route: /recipes

Create a file under src/pages/recipes and name it [page].astro

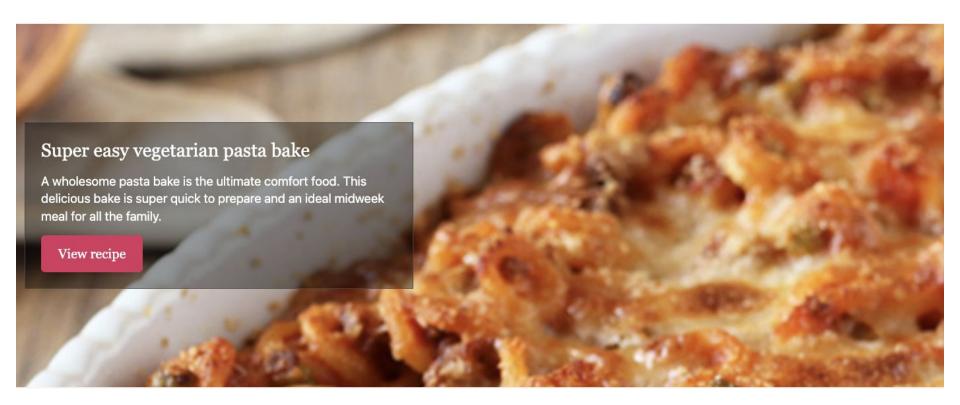
[page] will handle the pagination

In the frontmatter, inside the **getStaticPath()** function, we will get the collection of all recipes, we will loop through the collection, map the path alias to recipe and then pass the content o the props.

Recipes listing page

```
export const getStaticPaths = (async ({paginate}) => {
  const recipes = await getRecipes();
  return paginate (recipes, {
      pageSize: 10,
}) satisfies GetStaticPaths;
const {page} = Astro.props;
<div class="...">
   {page.data.map((recipe: DrupalNode) => (<RecipeCardTeaser recipe={recipe}/>))}
</div>
{page.url.prev ? <a href={page.url.prev}>Previous</a> : null}
{page.url.next ? <a href={page.url.next}>Next</a> : null}
```





Homepage Block Banner

Create a new component under src/components and name it **HomePageBanner.astro**

In the frontmatter, call the funciton **getHomepageBanner()** to retrieve the homepage banner drupal block.

getHomepageBanner()

```
export const getHomepageBanner = async (): Promise<DrupalBlock[]> => {
  const params: DrupalJsonApiParams = new DrupalJsonApiParams();
  params.addFields("block content--banner block", [
      "field title",
      "field summary",
       "field content link",
      "field media image",
  ])
       .addInclude(["field media image.field media image"])
       .addFields("media--image", ["field media image"])
       .addFields("file--file", ["uri", "image style uri", "resourceIdObjMeta"])
       .addFilter("info", "Umami Home Banner")
       .addPageLimit(1);
  const path: string = params.getQueryString();
  return await fetchUrl(baseUrl + '/jsonapi/block content/banner block?'+ path);
```

HomepageBanner component

```
import { getHomepageBanner, baseUrl } from "../api/drupal";
const data = await getHomepageBanner();
const url = baseUrl + data[0].field media image.field media image.uri.url;
<div class="...">
<div class="..."><img src={url}/></div>
<div class="...">
  <div class="...">
    {data[0].field title}
    {data[0].field summary}
    <a class="..."
href={data[0].field content link.uri.replace("internal:",
"") }>{data[0].field content link.title}</a>
  </div>
</div>
</div>
```

Recipe Collections

Alcohol free Baked Baking Breakfast

CakeCarrotsChocolateCocktail partyDairy-freeDessertDinner partyDrinks

Egg Grow your own Healthy Herbs

Recipes collection component

Create a new component under src/components and name it **RecipeCollection.astro**

In the frontmatter, call the function **getRecipeCollection()** to retrieve the the recipe tags taxonomy term.

getRecipeCollection ()

```
export const getRecipesCollection = async (): Promise<DrupalTaxonomyTerm[]>
=> {
   const params: DrupalJsonApiParams = new DrupalJsonApiParams();
   params.addFields("taxonomy_term--tags", ["name", "path"])
        .addPageLimit(16);
   const path: string = params.getQueryString();
   return await fetchUrl(baseUrl + '/jsonapi/taxonomy_term/tags?' + path);
}
```

RecipeCollection Component

```
import {getRecipesCollection} from "../api/drupal";
const tags = await getRecipesCollection();
<section class="...">
 <div class="...">
   <h2 class="...">
       Recipe Collections
   </h2>
   <div class="...">
       {tags.map((tag) => <a class="..." href={tag.path.alias}>{tag.name}</a>)}
   </div>
 </div>
</section>
```

Resources

Drupal JSON:API:

https://www.drupal.org/docs/core-modules-and-themes/core-modules/jsonapi-module

Astro: https://docs.astro.build/

Umami Demo: https://astrojs-drupal-umami.netlify.app/

Drupal JSON-API Params: https://www.npmjs.com/package/drupal-jsonapi-params

Jsona: https://www.npmjs.com/package/jsona

Drupal JSON:API modules: https://www.drupal.org/project/jsonapi/ecosystem

Q&A