

Dynamic Page & Section API Documentation

Overview

This API allows creating, managing, and fetching Pages and their dynamic Sections. Each Section belongs to a Section Type,

Entities:

1. Page – Container for sections.
2. SectionType – Defines the type of a section (e.g., Banner, About, Gallery).
3. Section – Instance of a SectionType within a Page with actual content.

Models

Page

- id: integer, primary key
- title: string, Page title
- slug: string, Unique slug for URL
- created_at: datetime, Auto timestamp
- updated_at: datetime, Auto timestamp

SectionType

- id: integer, primary key
- name: string, Section type name (e.g., Banner)
- description: text, Optional description
- schema: JSON, Optional JSON schema describing expected content fields
- created_at: datetime, Auto timestamp
- updated_at: datetime, Auto timestamp

Section

- id: integer, primary key
- page: FK(Page), The page this section belongs to
- section_type: FK(SectionType), Type of the section
- content: JSON, Dynamic content of the section
- position: integer, Order of the section in the page
- created_at: datetime, Auto timestamp
- updated_at: datetime, Auto timestamp

API Endpoints

1. Pages

- Create Page (POST /api/pages/)

Request: {"title": "Home Page", "slug": "home"}

Response: {"id":1,"title":"Home Page","slug":"home","created_at":"2025-08-26T10:30:00Z","updated_at":"2025-08-26T10:30:00Z"}

- List Pages (GET /api/pages/)

Response: [{"id":1,"title":"Home Page","slug":"home"}, {"id":2,"title":"About Page","slug":"about"}]

- Get Page with Sections (GET /api/pages/{id}/)

Response: {"id":1,"title":"Home Page","slug":"home","sections":[{"id":1,"section_type":{"id":1,"name":"Banner","schema":{"title":"string","description":"string","image":"string","url":"string","position":1}},"content":{"title":"Welcome to Our Website!","subtitle":"We deliver quality","image":"new_banner.png","url":"https://example.com/new_banner.png","position":1}}]}

2. Section Types

- Create Section Type (POST /api/section-types/)

Request: {"name":"Banner","description":"Hero banner with image & text","schema":{"title":"string","description":"string","image":"string","url":"string","position":1}}

Response: {"id":1,"name":"Banner","description":"Hero banner with image & text","schema":{"title":"string","description":"string","image":"string","url":"string","position":1}}

- List Section Types (GET /api/section-types/)

Response: [{"id":1,"name":"Banner","description":"Hero banner with image & text","schema":{"title":"string","description":"string","image":"string","url":"string","position":1}}]

3. Sections

- Add Section to Page (POST /api/sections/)

Request: {"page":1,"section_type":1,"content":{"title":"Welcome!","subtitle":"We are the best","image":"banner.png","url":"https://example.com/banner.png","position":1}}

Response: {"id":1,"page":1,"section_type":{"id":1,"name":"Banner","schema":{"title":"string","description":"string","image":"string","url":"string","position":1}},"content":{"title":"Welcome!","subtitle":"We are the best","image":"banner.png","url":"https://example.com/banner.png","position":1}}

- Update Section (PUT /api/sections/{id}/)

Request: {"content":{"title":"Welcome to Our Website!","subtitle":"We deliver quality","image":"new_banner.png","url":"https://example.com/new_banner.png","position":1}}

Response: {"id":1,"page":1,"section_type":{"id":1,"name":"Banner","schema":{"title":"string","description":"string","image":"string","url":"string","position":1}},"content":{"title":"Welcome to Our Website!","subtitle":"We deliver quality","image":"new_banner.png","url":"https://example.com/new_banner.png","position":1}}

- Delete Section (DELETE /api/sections/{id}/)

Response: {"detail":"Section deleted successfully"}