



Firemní weby v DjangoCMS

**System pro správu obsahu DjangoCMS.
Popis pluginů. Vývoj, údržba, nasazení přes Gitlab CI
od vytváření .deb balíčků po dockerizaci.**

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Obsah

- **Co je DjangoCMS**
Proč si je vybrat.
- **Pohled uživatele**
Jak se s tím pracuje.
- **Pohled vývojáře**
Jak se pro to vyvíjí.
- **Pohled správce**
Jak se to nasazuje.



CMS - Content management system

System pro správu obsahu - redakční či publikační systém. Umožňuje rychlou a snadnou správu obsahu webu.

Základní funkce:

- Editace stránek.
- Správa editorů (uživatelů) a jejich editorských práv.
- Správa souborů a řízení přístupu k nim.
- Správa diskuzí nebo komentářů.
- Statistika přístupů.



Nejpopulárnější CMS



Drupal



Joomla



WordPress



Contentful



Wix



Shopify



Magento



TYPO3



HubSpot CMS



Sitecore



Squarespace



Concrete5



Magnolia



Sitefinity



Adobe Experience Cloud



BigCommerce



PrestaShop



Bitrix24



Blogger



Contentstack



Ghost



Storyblok



Textpattern



Appy Pie website Builder



CMS podle podílu na trhu

	2024 1 Jan	2024 1 Feb	2024 1 Mar	2024 1 Apr	2024 1 May	2024 1 Jun	2024 1 Jul	2024 1 Aug	2024 1 Sep	2024 1 Oct
WordPress	62.9%	62.8%	62.8%	62.8%	62.8%	62.7%	62.7%	62.7%	62.6%	62.5%
Shopify	6.0%	6.2%	6.2%	6.3%	6.3%	6.4%	6.4%	6.4%	6.5%	6.5%
Wix	3.8%	3.8%	3.8%	3.8%	3.9%	3.9%	4.0%	4.0%	4.2%	4.3%
Squarespace	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.1%	3.1%	3.1%
Joomla	2.5%	2.5%	2.5%	2.5%	2.4%	2.4%	2.4%	2.4%	2.4%	2.3%
Drupal	1.6%	1.5%	1.5%	1.5%	1.4%	1.4%	1.4%	1.4%	1.3%	1.3%
Adobe Systems	1.5%	1.5%	1.5%	1.4%	1.4%	1.4%	1.4%	1.3%	1.3%	1.3%
Webflow	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.1%	1.1%	1.1%	1.1%
PrestaShop	1.2%	1.2%	1.2%	1.2%	1.1%	1.1%	1.1%	1.1%	1.1%	1.0%
Google Systems	1.1%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	0.9%
Bitrix	1.0%	0.9%	0.9%	0.9%	0.9%	0.9%	0.9%	0.8%	0.8%	0.8%
Duda	0.6%	0.6%	0.6%	0.7%	0.7%	0.7%	0.8%	0.8%	0.8%	0.8%

– Source: w3tech



CMS podle programovacího jazyka a licence

CMS Platforms	Initial release	Written in	g2 Ratings	Starting Price
WordPress	2003	PHP	4.4 (9,166)	Free
Shopify	2006	Liquid, JS, CSS	4.4 (4,578)	\$29/mo
Wix	2006	Velo	4.2 (1,676)	\$14/mo
Squarespace	2003	Ruby, PHP, Java	4.4 (1,070)	\$18/mo
Joomla	2005	PHP	5.0 (382)	Free
Drupal	2007	PHP	3.8 (317)	Free
Magento	2008	PHP	4.0 (236)	Free
Webflow	2012	HTML, CSS, JavaScript	4.4 (588)	Free or \$14/mo
PrestaShop	2007	PHP	4.3 (153)	Free
OpenCart	2005	PHP	4.3 (104)	Free
Weebly	2009	PHP	4.2 (473)	Free
Typo3	2004	PHP	3.9 (34)	Free
HubSpot CMS	2006	HUML, CSS, HTML	4.5 (1,751)	Free or \$25/mo
BigCommerce	2009	Ruby, PHP, Java, Python	4.2 (528)	\$29/mo
Shopware	2000	PHP	4.1 (150)	\$600/mo
October CMS	2014	PHP	4.5 (4)	Free or \$29/license

Source: .cloudways.com



CMS + Python + Open source

django **CMS**

django-cms.org
Django



wagtail.org
Django

MEZZANINE

mezzanine.readthedocs.io
Django



moinmo.in
wiki engine

Kotti

kotti.readthedocs.io
Pyramid, SQLAlchemy



Plone
Zope



Django CMS

The screenshot shows the Django CMS website homepage. At the top, there is a navigation bar with the Django CMS logo, menu items for 'WHO WE SERVE', 'ABOUT DJANGO CMS', 'OUR COMMUNITY', and 'RESOURCES', and two buttons: 'TRY DJANGO CMS' and 'GIVE BACK'. The main content area features a hero section for 'DJANGO CMS 4 IS HERE' with a sub-headline 'Revitalized, Streamlined, and More Powerful' and a paragraph 'Experience the Future of Web Development with Advanced Versioning and Modernized Codebase.' A 'LEARN MORE' button is present. A cookie consent banner is visible. Below the hero section are three white cards: 'Get started' with terminal code for installation, 'Get Involved' with a list of ways to contribute, and 'Get Support' with a list of support options. Each card has a corresponding button at the bottom.

django CMS WHO WE SERVE ▾ ABOUT DJANGO CMS ▾ OUR COMMUNITY ▾ RESOURCES ▾ TRY DJANGO CMS GIVE BACK ❤️

DJANGO CMS 4 IS HERE

Revitalized, Streamlined, and More Powerful

Experience the Future of Web Development with Advanced Versioning and Modernized Codebase.

LEARN MORE

This website uses cookies to help ensure that you enjoy the best experience. If you do not consent to our use of cookies, please adjust your [privacy settings](#) accordingly. ACCEPT

Get started

Quickly get started and play around with django CMS on your local machine using the `django cms` command to start a new project.

```
$ python3 -m venv .venv
$ source .venv/bin/activate
$ pip install django-cms
$ django cms mysite
$ cd mysite
$ python -m manage runserver
```

Need help? Check out our [support](#) section.

FULL INSTALLATION HOWTO

Get Involved

django CMS is open and free. django CMS depends on your help.

What can you do for django CMS?

- ✓ Join the [django-cms Github Sponsors](#)
- ✓ [Contribute your work](#)
- ✓ [Volunteer](#)
- ✓ [Become a member of the django CMS Association](#)

I WANT TO HELP

Get Support

Solutions for all your django CMS needs

Reach out to the django CMS community to get help or [find an expert](#).

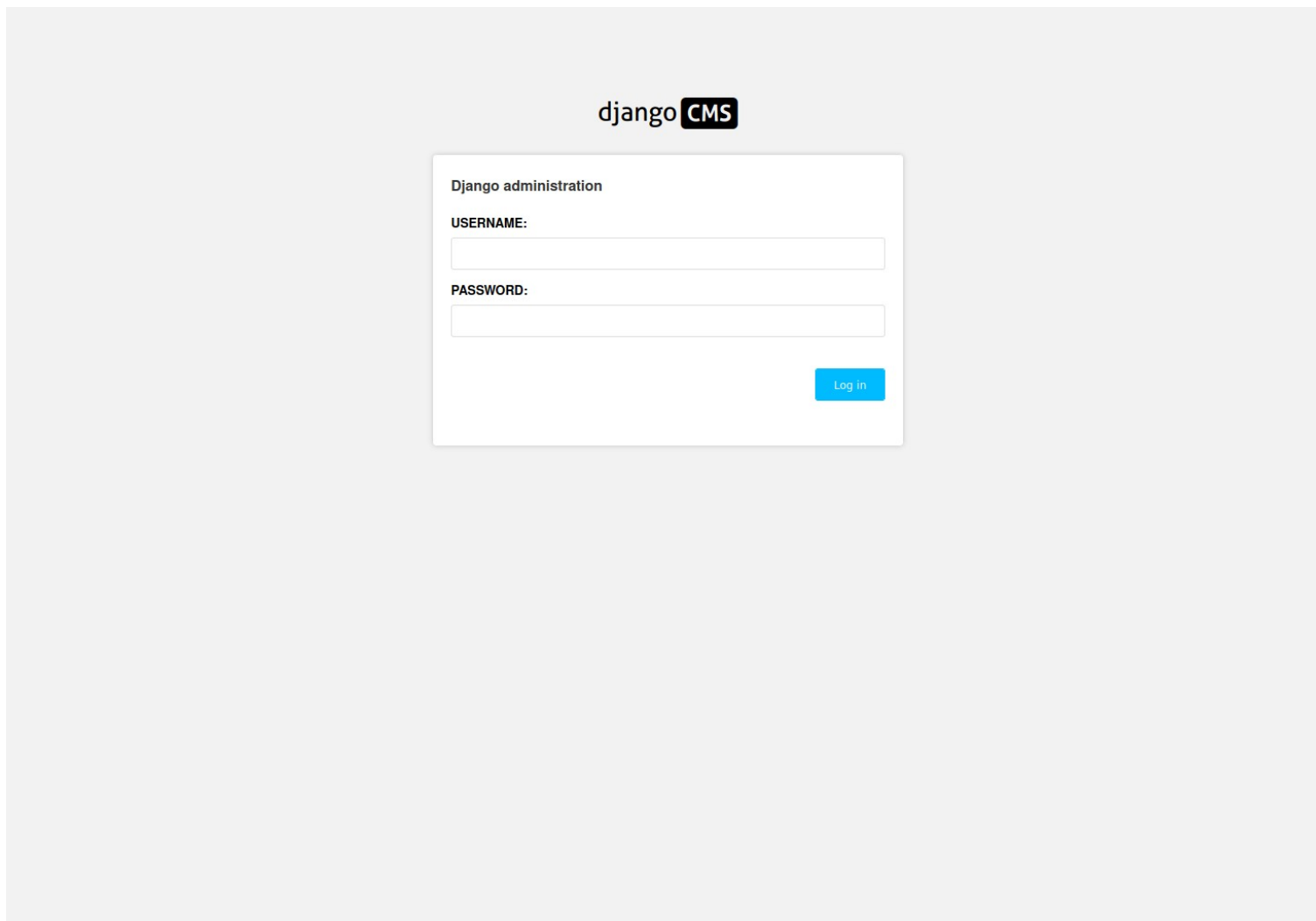
- ✓ Join our folks on [Discord](#)
- ✓ Post your issue on [Stack Overflow](#)
- ✓ Read the [technical docs](#)
- ✓ Find an [Expert](#)
- ✓ [Ask the AI](#)

SEE ALL SUPPORT OPTIONS



Django CMS – editace stránek

Přihlášení do administrace

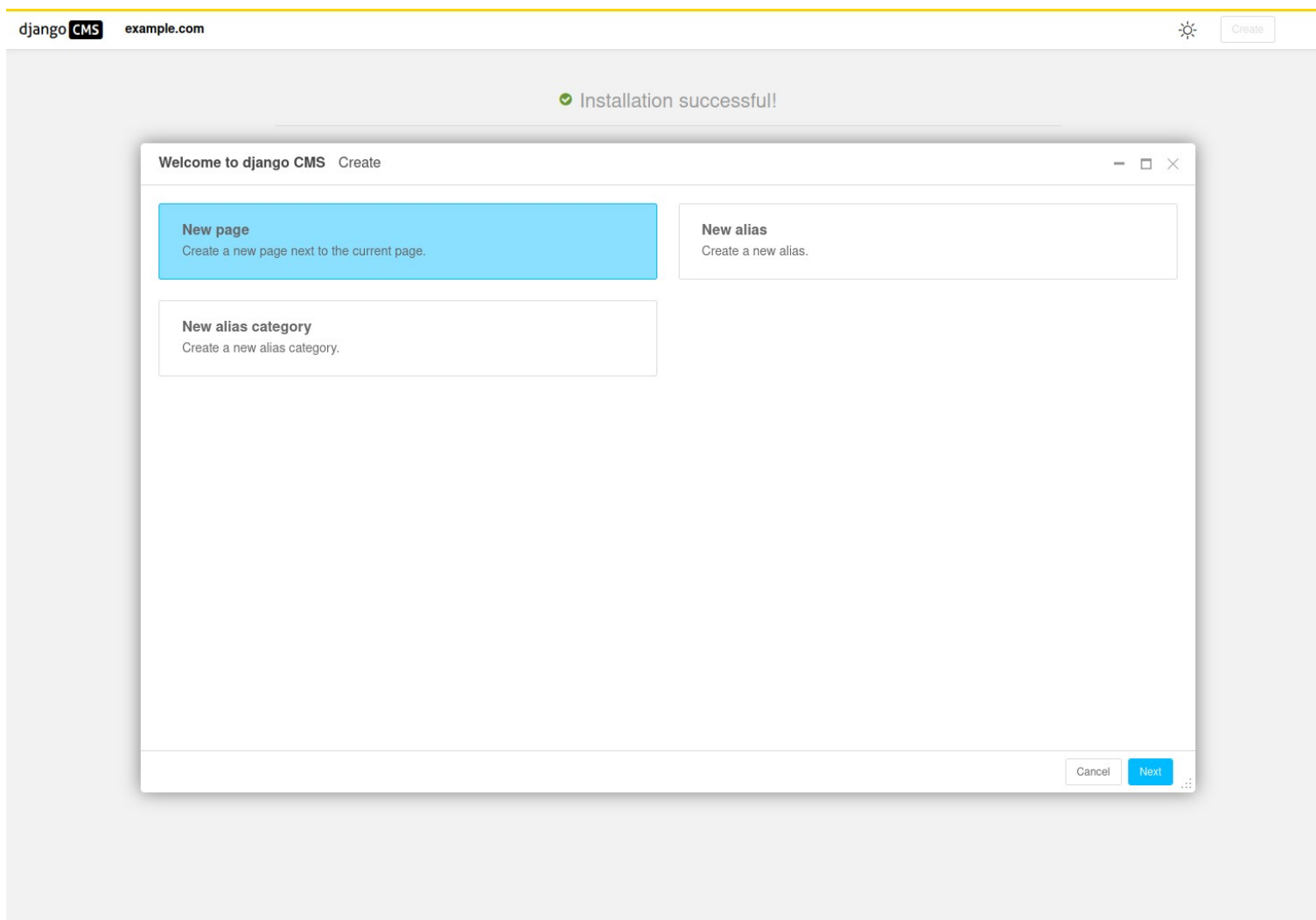


The screenshot shows the Django CMS administration login interface. At the top center, the text "django CMS" is displayed, with "django" in a standard font and "CMS" in a bold, black, rounded rectangle. Below this, a white rectangular box contains the login form. The form is titled "Django administration" and includes two input fields: "USERNAME:" and "PASSWORD:". A blue "Log in" button is positioned at the bottom right of the form. The entire interface is set against a light gray background.



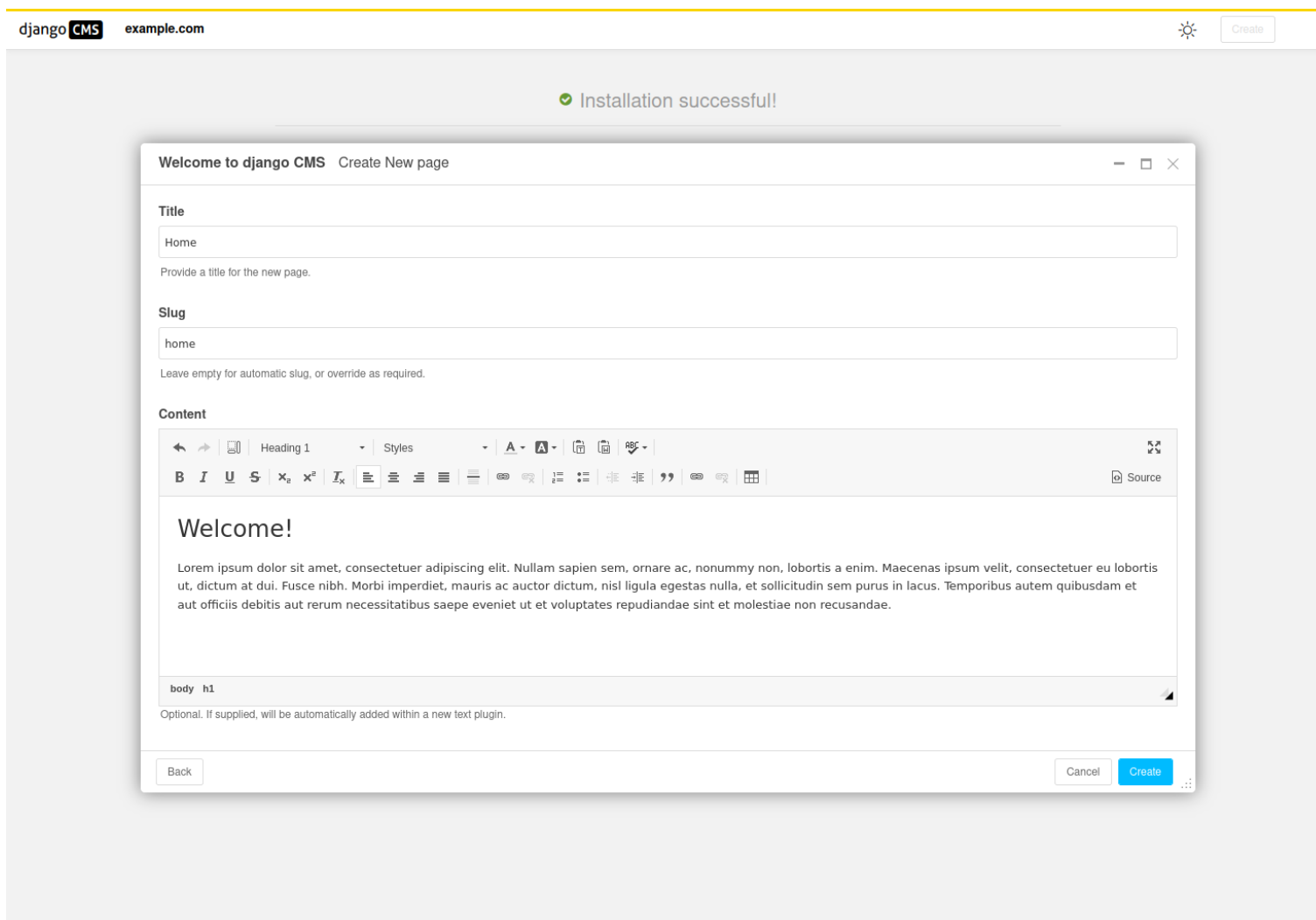
Django CMS – editace stránek

Vytvoření stránky



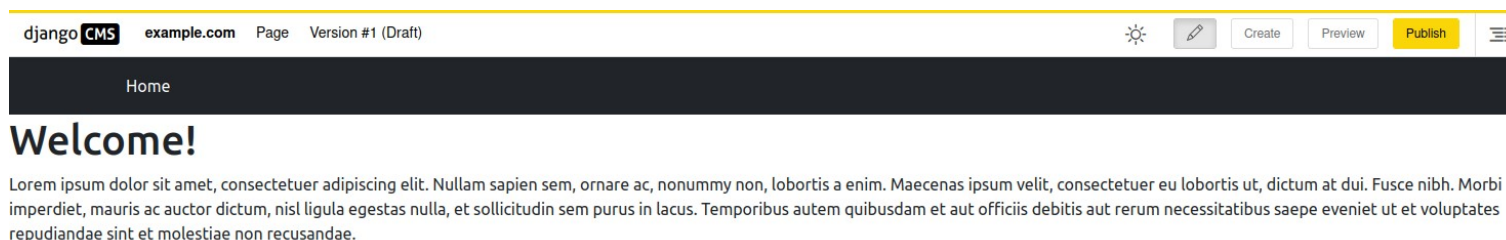
Django CMS – editace stránek

Vytvoření stránky



Django CMS – editace stránek

Vytvoření stránky – draft mód → publikovat

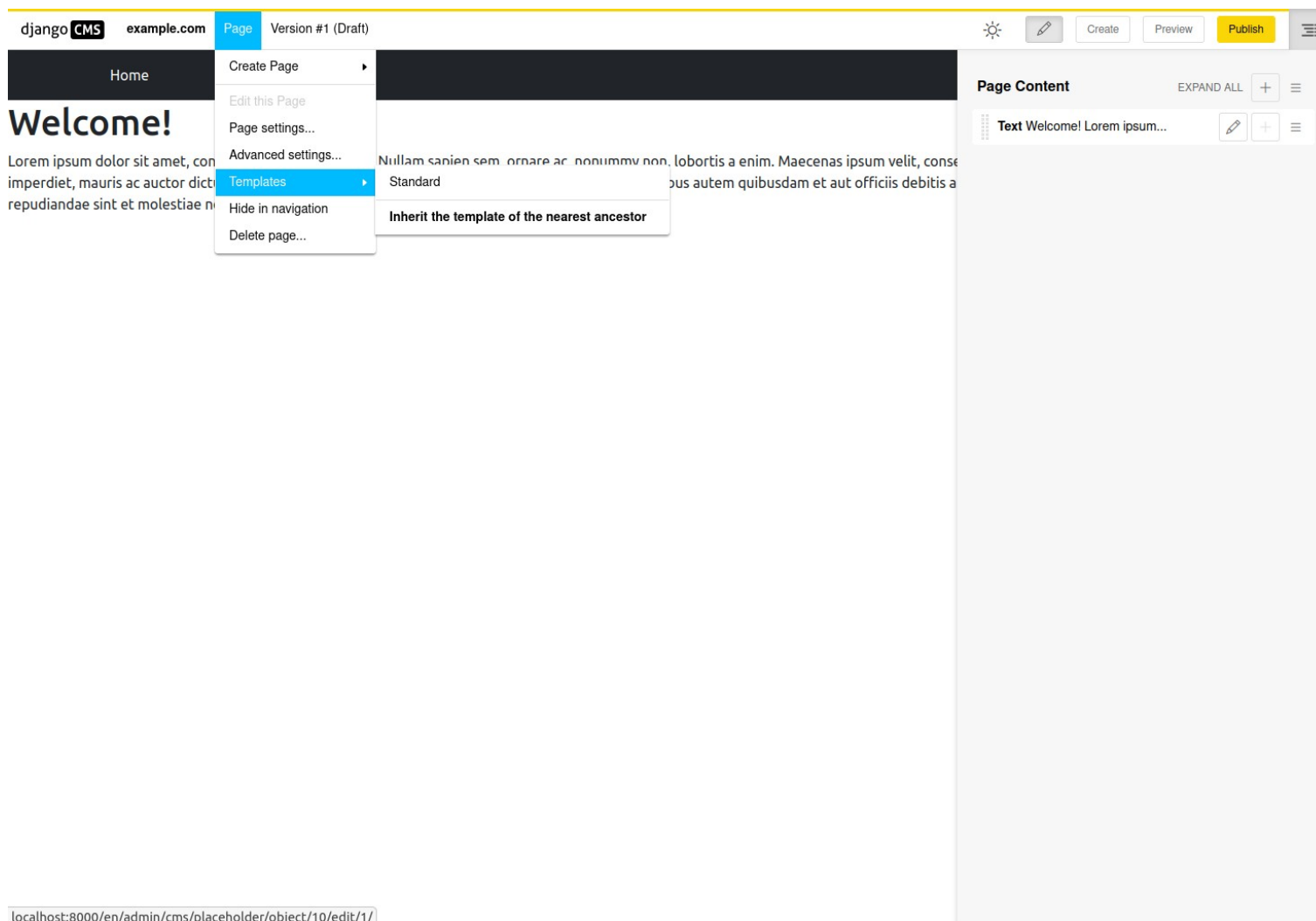


The screenshot displays the Django CMS admin interface. At the top, the breadcrumb navigation shows 'django CMS', 'example.com', 'Page', and 'Version #1 (Draft)'. On the right side of the header, there are icons for a sun (theme), a pencil (edit), and buttons for 'Create', 'Preview', and 'Publish'. Below the header, a dark navigation bar contains the text 'Home'. The main content area features a large heading 'Welcome!' followed by a paragraph of Lorem Ipsum placeholder text.



Django CMS – editace stránek

Vytvoření stránky – struktura stránky: šablona → umístěnka → plugin



Django CMS – editace stránek

Vytvoření stránky – Menu podle seznamu stránek – podmenu pro podstránku

The screenshot displays the Django CMS admin interface. At the top, the breadcrumb navigation shows 'Home > django CMS > Pages'. The left sidebar contains a list of modules with 'Add' buttons: AUTHENTICATION AND AUTHORIZATION (Groups, Users), DJANGO CMS (Page contents, Pages global permissions, User groups (page), Users (page)), DJANGO CMS ALIAS (Aliases, Categories), DJANGO CMS VERSIONING (Alias content versions, Page content versions), FILER (Folders, Thumbnail options), and SITES (Sites).

The main content area is titled 'Page Tree (example.com)' and features a search bar and a 'New Page' button. Below this is the 'Main Navigation' section, which displays a table of pages:

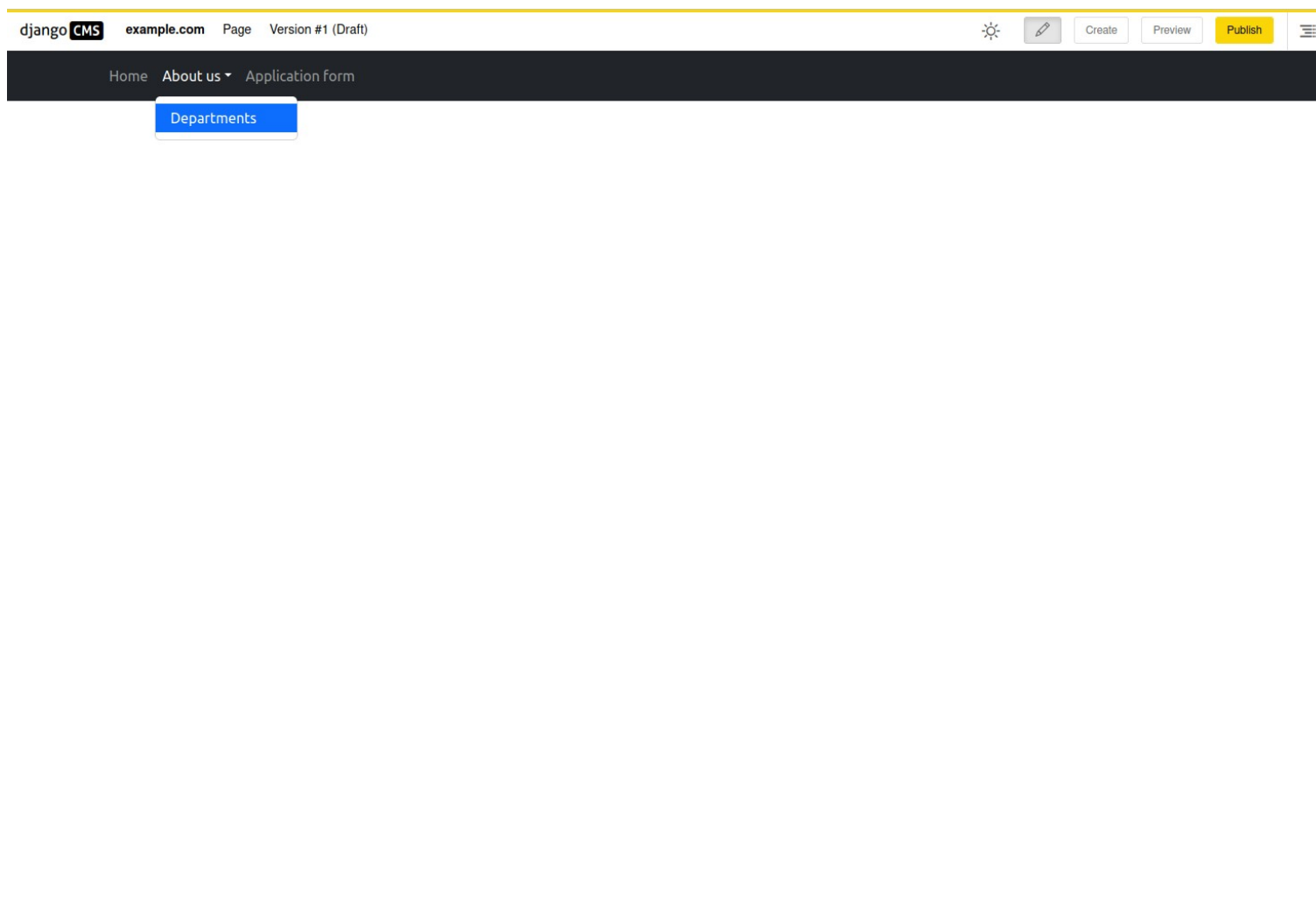
	View	EN	Menu			
Home						
About us						
Departments						
Application form						

A 'LEGEND' button is located at the bottom right of the table.



Django CMS – editace stránek

Vytvoření stránky – Menu podle seznamu stránek – podmenu pro podstránku



Django CMS – editace stránek

Detailní nastavení práv pro editora stránek

The screenshot displays the Django CMS admin interface. At the top, the breadcrumb navigation shows 'Home > Authentication and Authorization > Users > admin'. The main content area is titled 'Change user' and shows the user 'admin'. The form includes fields for 'Username' (admin), 'Password' (with algorithm, iterations, salt, and hash details), 'Personal info' (First name, Last name), 'Email address', and 'Permissions' (Active, Staff status). The left sidebar contains a navigation menu with categories like 'AUTHENTICATION AND AUTHORIZATION', 'DJANGO CMS', 'DJANGO CMS ALIAS', 'DJANGO CMS VERSIONING', 'FILER', and 'SITES'. The top right corner has buttons for 'Create', 'Preview', and 'Publish'.



Django CMS – editace stránek

Detailní nastavení práv pro editora stránek

The screenshot shows the Django CMS user permissions configuration interface. The top navigation bar includes the Django CMS logo, the site name 'example.com', and the page title 'Page Version #1 (Draft)'. On the right, there are buttons for 'Create', 'Preview', and 'Publish'. The left sidebar contains a list of categories with '+ Add' buttons: AUTHENTICATION AND AUTHORIZATION (Groups, Users), DJANGO CMS (Page contents, Pages global permissions, User groups (page), Users (page)), DJANGO CMS ALIAS (Aliases, Categories), and DJANGO CMS VERSIONING (Alias content versions, Page content versions). Below these are FILER (Folders, Thumbnail options) and SITES (Sites).

The main content area is titled 'Designates that this user has all permissions without explicitly assigning them.' It features a 'Groups:' section with a '+ Add' button and two panels: 'AVAILABLE GROUPS' and 'CHOSEN GROUPS'. Below this is a 'User permissions:' section with 'AVAILABLE USER PERMISSIONS' and 'CHOSEN USER PERMISSIONS' panels. The 'AVAILABLE USER PERMISSIONS' panel lists several permissions for 'accordion' objects, such as 'Can add Accordion', 'Can change Accordion', 'Can delete Accordion', and 'Can view Accordion'. The 'CHOSEN USER PERMISSIONS' panel is currently empty. At the bottom, a note states: 'Specific permissions for this user. Hold down "Control", or "Command" on a Mac, to select more than one.'



Django CMS – editace stránek

Filer: Nahrané soubory – složky – oprávnění přístupů editorů do složek

The screenshot shows the Django CMS Filer interface. The top navigation bar includes 'django CMS', 'example.com', 'Page', and 'Version #1 (Draft)'. The breadcrumb trail is 'Home > Filer > Folder > Unsorted Uploads'. The left sidebar contains several menu sections: 'AUTHENTICATION AND AUTHORIZATION' (Groups, Users), 'DJANGO CMS' (Page contents, Pages global permissions, User groups (page), Users (page)), 'DJANGO CMS ALIAS' (Aliases, Categories), 'DJANGO CMS VERSIONING' (Alias content versions, Page content versions), 'FILERS' (Folders, Thumbnail options), and 'SITES' (Sites). The main content area shows the 'Unsorted Uploads' folder with a search bar and an 'Upload Files' button. A table lists the files:

<input type="checkbox"/>	NAME	OWNER	SIZE	ACTION
<input type="checkbox"/>	upload-file.svg	admin	(472 bytes, 50x43 px)	Link Download Permissions Delete

Page 1 of 1. 0 of 1 selected



Django CMS – editace stránek

Filer: Nahrané soubory – řízení přístupu přes náhodný hash

The screenshot displays the Django CMS Filer interface. At the top, the breadcrumb navigation shows 'Home > Filer > Folder > Unsorted Uploads > upload-file.svg'. The left sidebar contains a navigation menu with categories: AUTHENTICATION AND AUTHORIZATION (Groups, Users), DJANGO CMS (Page contents, Pages global permissions, User groups (page), Users (page)), DJANGO CMS ALIAS (Aliases, Categories), DJANGO CMS VERSIONING (Alias content versions, Page content versions), FILER (Folders, Thumbnail options), and SITES (Sites). The main content area is titled 'Change image' and shows the file 'upload-file.svg'. A thumbnail of the file is displayed with a red circle highlighting a specific point. To the right of the thumbnail, the file's metadata is listed: Type: SVG Image (image/svg+xml), Size: 50x43 px, File-size: 472 bytes, Modified: Oct. 8, 2024, 9:05 a.m., Created: Oct. 8, 2024, 9:05 a.m., and Owner: admin. Below the thumbnail are 'Download' and 'Expand' buttons. The bottom section of the interface contains form fields for 'Name:', 'Owner:' (set to 'admin'), and 'Description:'. The browser's address bar at the bottom shows the local file path: localhost:8000/media/filer_public/eb/1d/eb1d9936-961b-422c-bdcb-367168e5b413/upload-file.svg.



Django CMS – editace stránek

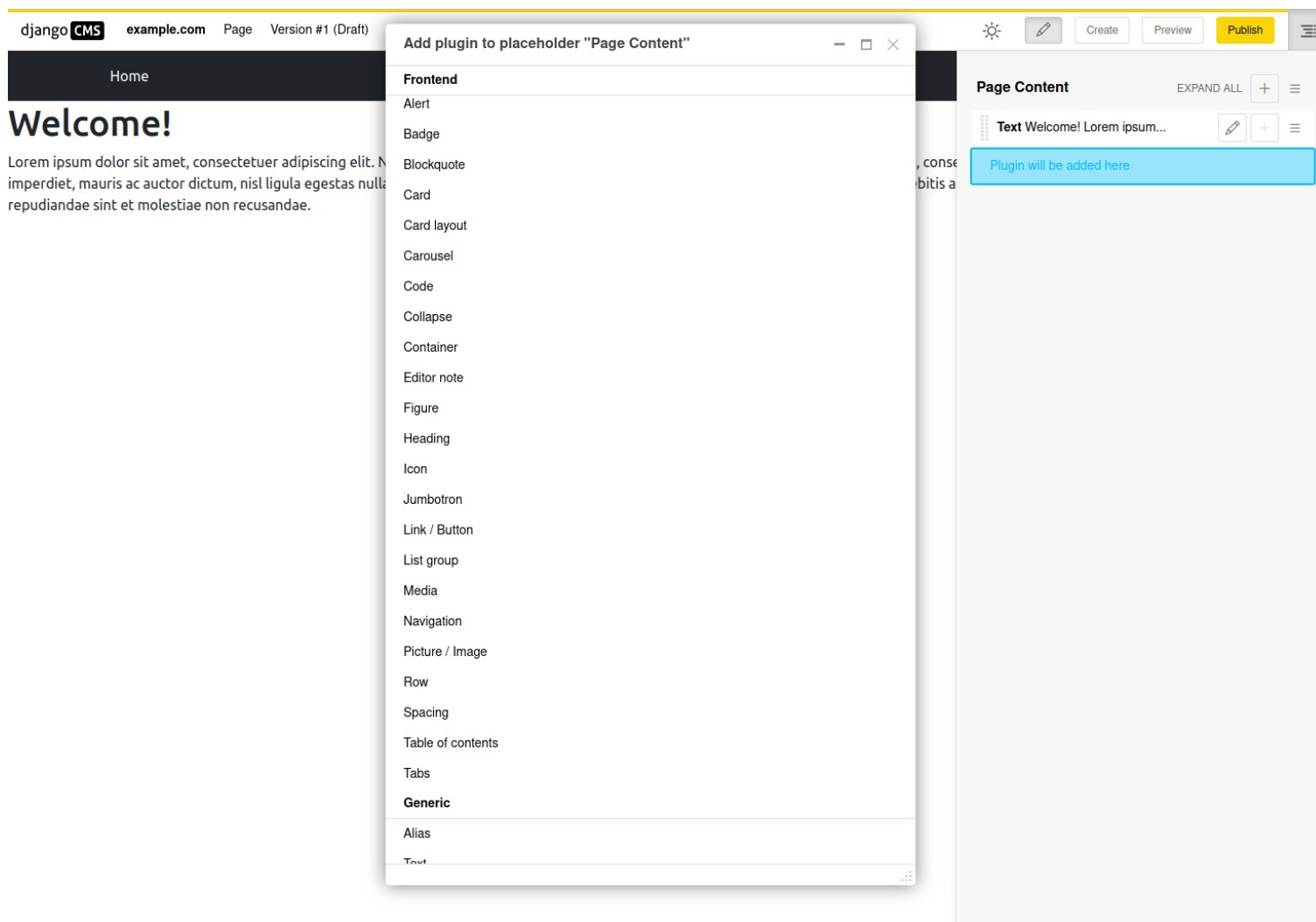
Filer: Nahrané soubory – kanonický odkaz

The screenshot displays the Django CMS admin interface for editing a page. The top navigation bar shows the site name 'example.com', the page title 'Page', and the version 'Version #1 (Draft)'. The sidebar on the left contains several menu items, including 'AUTHENTICATION AND AUTHORIZATION', 'DJANGO CMS', 'DJANGO CMS ALIAS', 'DJANGO CMS VERSIONING', 'FILER', and 'SITES'. The 'FILER' menu item is currently selected, and its sub-items are visible: 'Folders', 'Thumbnail options', and 'Sites'. The main content area is divided into two columns. The left column contains form fields for 'Author:', 'Default alt text:', 'Default caption:', 'Advanced (Hide)', 'File:', 'Sha1:', 'Canonical URL:', and 'Subject location (Show)'. The 'File:' field is currently empty, and the 'Sha1:' field displays the value '6178bf12a50d8b028404a3cc48dae590580ef1f3'. The 'Canonical URL:' field displays the value '/en/filer/canonical/1728374718/1/'. The right column is currently empty. At the bottom of the main content area, there are three buttons: 'Delete', 'Save and continue editing', and 'Save'.



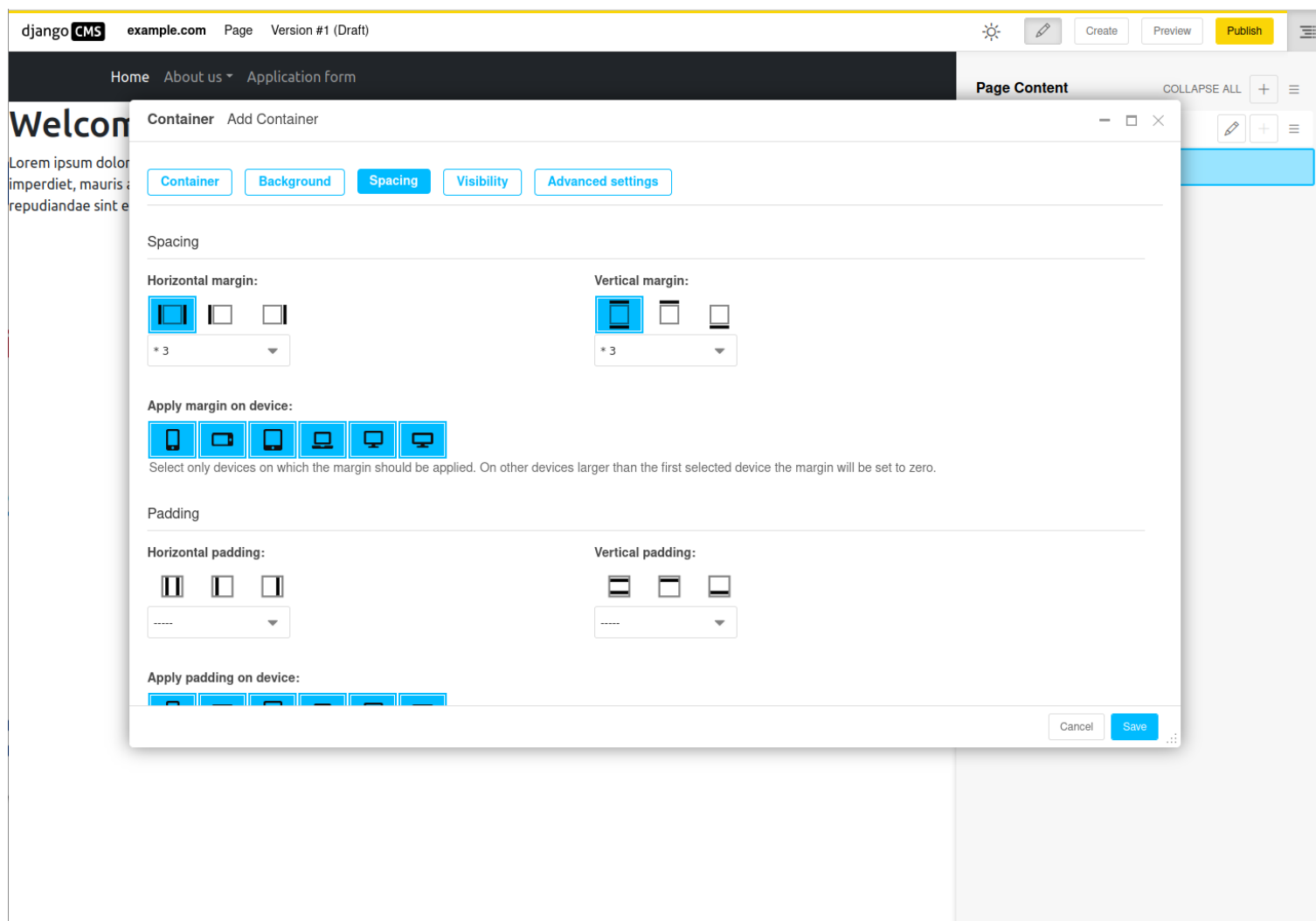
Django CMS – editace stránek

Pluginy – seskupení do skupin



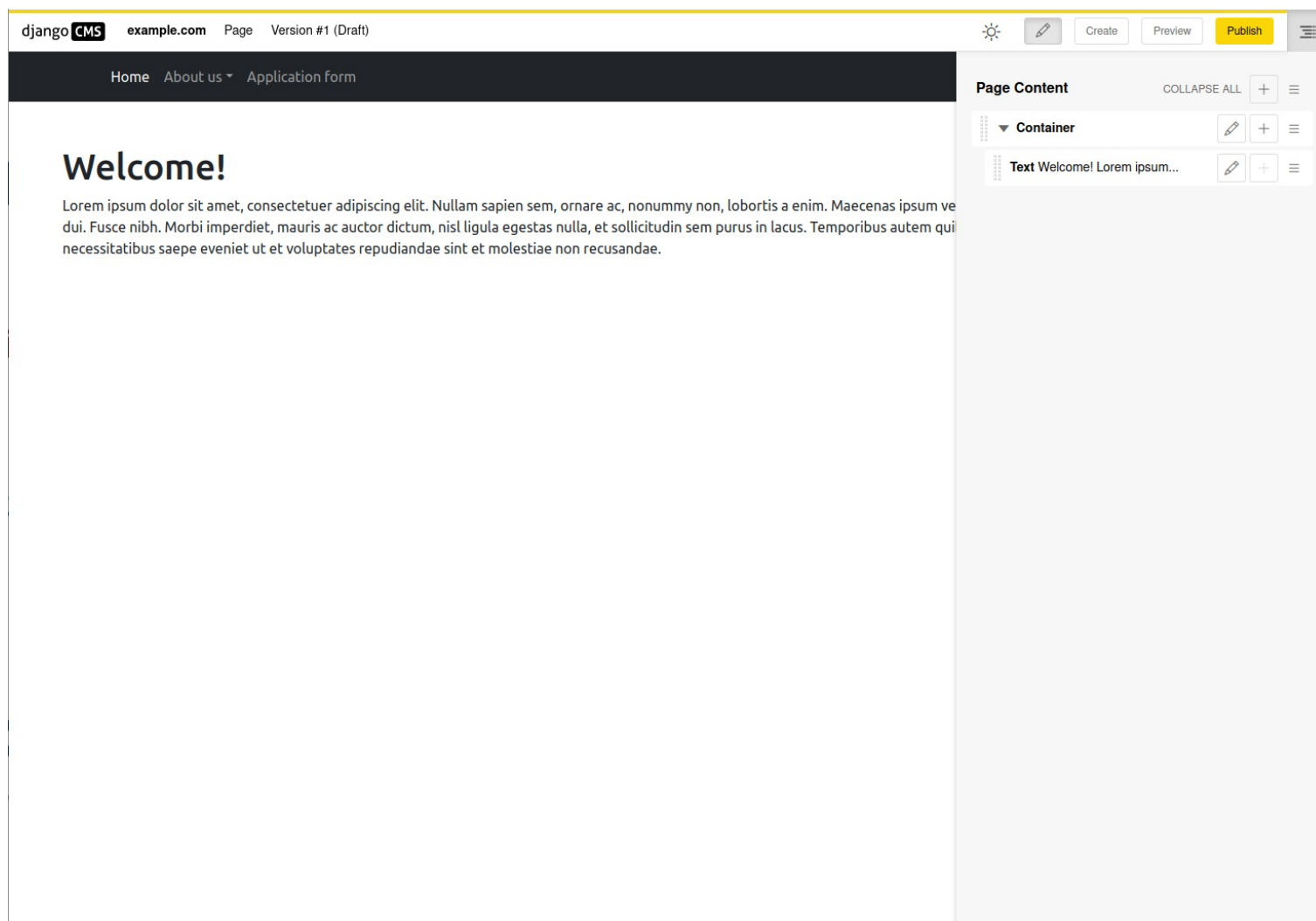
Django CMS – editace stránek

Plugin Container



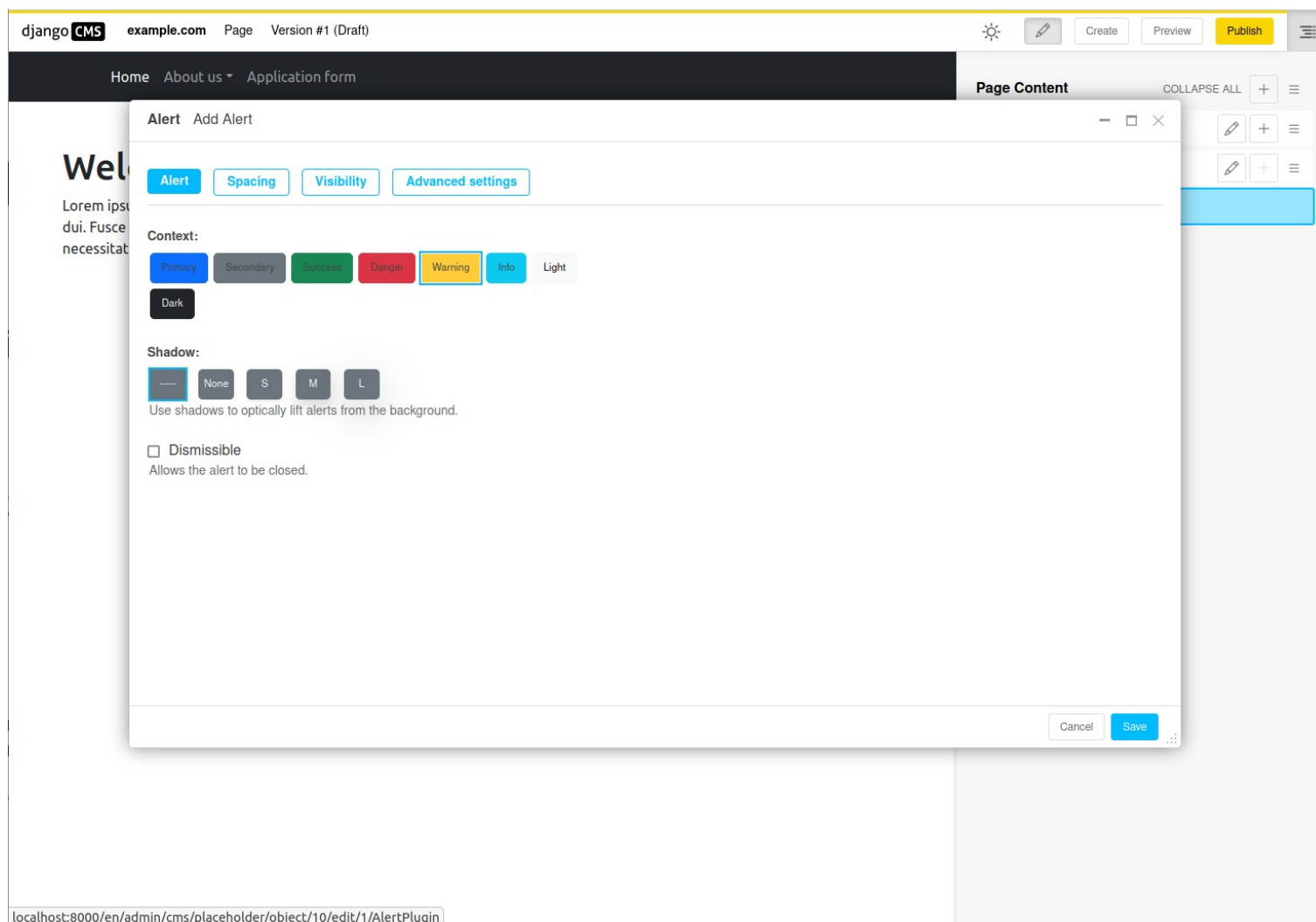
Django CMS – editace stránek

Plugin Container s pluginem Text



Django CMS – editace stránek

Plugin Alert



Plugin Alert s pluginem Text

The screenshot displays a Django CMS interface for editing a page. At the top, the breadcrumb shows 'django CMS example.com Page Version #1 (Draft)'. The navigation menu includes 'Home', 'About us', and 'Application form'. The main content area features a 'Welcome!' heading followed by a paragraph of Lorem Ipsum text. Below this is a yellow alert box with the text 'Alert! Watch out!'. The right sidebar, titled 'Page Content', shows a tree view of the page structure with the following items:

- Container
 - Text Welcome! Lorem ipsum...
 - Alert (warning)
 - Text Alert! Watch out!



Django CMS – editace stránek

Shrnutí vlastností administrace stránek

- Šablony (template) – dědičnost
- Umístěnka (placeholder) – dynamická, statická
- Pluginy – seskupení do skupin
- Draft mód → publikovaná stránka
- Dynamické menu podle seznamu stránek
- Detailní nastavení práv pro editory stránek
- Média (nahrané soubory) – řízení přístupu



Django CMS – vývoj

Vytvoření pluginu

```
mkdir -p mysite/plugins/templates/plugins

touch mysite/plugins/__init__.py
touch mysite/plugins/cms_plugins.py
touch mysite/plugins/templates/plugins/hello.html

settings.py:
INSTALLED_APPS = [
    ...
    "mysite.plugins",
]

TEMPLATES = [
    "OPTIONS": {
        "context_processors": [
            "django.template.context_processors.request",
```

mysite/plugins/cms_plugins.py

```
from cms.plugin_base import CMSPluginBase
from cms.plugin_pool import plugin_pool

@plugin_pool.register_plugin
class HelloPlugin(CMSPluginBase):
    module = "My site"
    name = "Hello user"
    render_template = "plugins/hello.html"
```

mysite/plugins/templates/plugins/hello.html

```
<h1>
  Hello
  {% if request.user.is_authenticated %}
    {{ request.user.first_name }} {{ request.user.last_name }} ({{ request.user.username }})
  {% else %}
    Guest
  {% endif %}
</h1>
```



Django CMS – vývoj

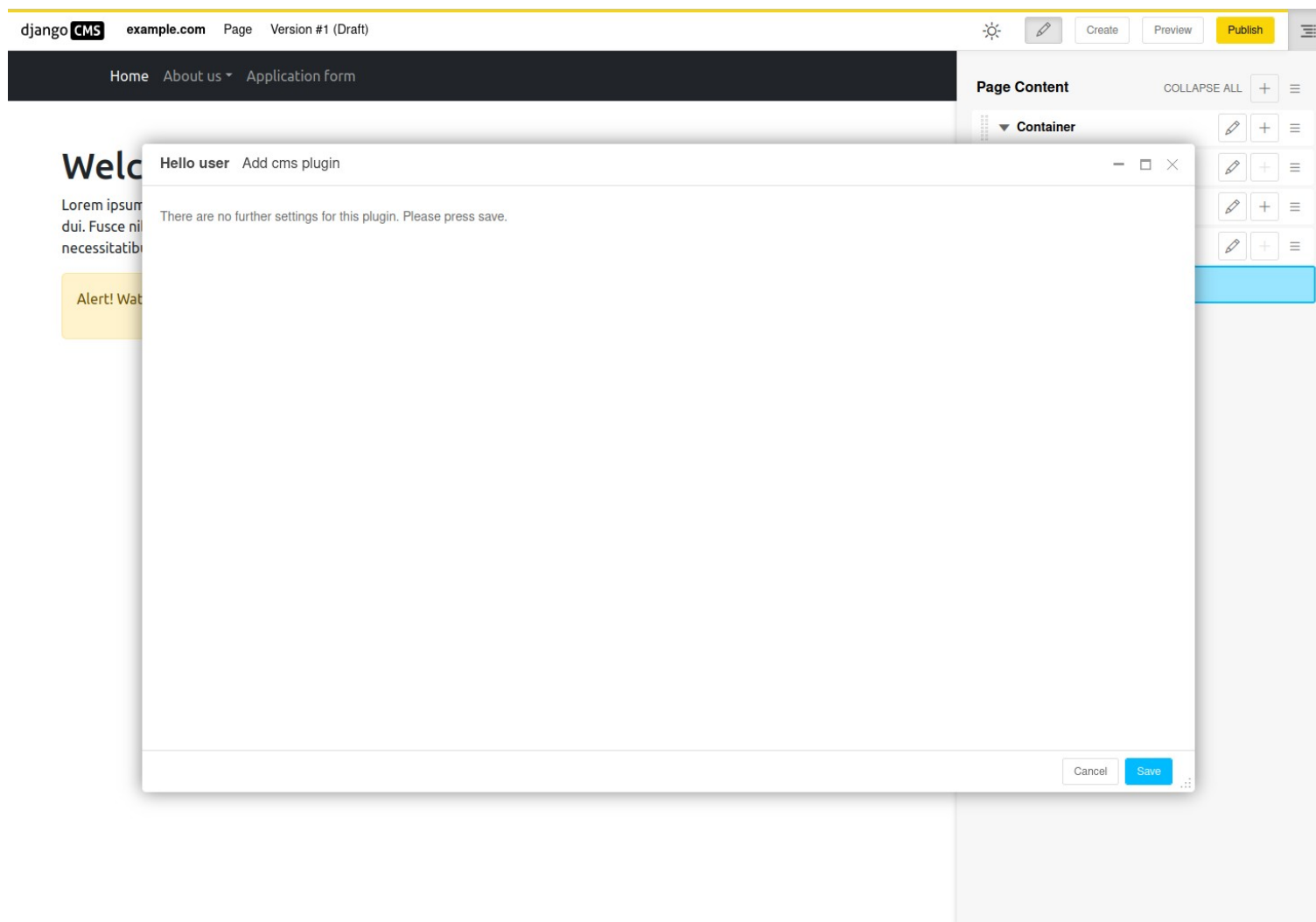
Vytvoření pluginu – výběr ze seznamu pluginů

The screenshot displays the Django CMS admin interface. At the top, the breadcrumb navigation shows 'django CMS example.com Page Version #1 (Draft)'. The main content area features a 'Welcome!' heading and a paragraph of Lorem ipsum text. A yellow alert box with the text 'Alert! Watch out!' is visible. A modal window titled 'Add plugin to Container' is open, listing various plugin categories: Frontend (Row, Spacing, Table of contents, Tabs), Generic (Alias, Text), and My site (Hello user). The 'Hello user' plugin is highlighted. On the right side, the 'Page Content' sidebar shows a 'Container' with a 'Text' block and an 'Alert (warning)' block. A blue notification bar at the bottom of the sidebar states 'Plugin will be added here'. The browser's address bar at the bottom shows the URL 'localhost:8000/en/admin/cms/placeholder/object/10/edit/1/HelloPlugin'.



Django CMS – vývoj

Vytvoření pluginu – vložení do struktury stránky



Django CMS – vývoj

Vytvoření pluginu – zobrazení na stránce

The screenshot displays the Django CMS interface. At the top, the page title is "django CMS example.com Page Version #1 (Draft)". The navigation menu includes "Home", "About us", and "Application form". The main content area features a "Welcome!" heading, a paragraph of Lorem ipsum text, a yellow warning alert box with the text "Alert! Watch out!", and a "Hello (admin)" message. The right sidebar, titled "Page Content", shows a list of content blocks: a "Container" block, a "Text" block with the content "Welcome! Lorem ipsum...", an "Alert (warning)" block, another "Text" block with "Alert! Watch out!", and a "Hello user 6" block. Each block has edit, add, and delete icons. The sidebar also includes a "COLLAPSE ALL" button and a hamburger menu icon.



Django CMS – vývoj

Vytvoření aplikace

```
mkdir -p mysite/myapp/templates/myapp
touch mysite/myapp/__init__.py
touch mysite/myapp/cms_apps.py
touch mysite/myapp/views.py
touch mysite/myapp/templates/myapp/hello.html
```

```
settings.py:
INSTALLED_APPS = [
    ...
    "mysite.myapp",
]
MIDDLEWARE = [
    ...
    "cms.middleware.utils.ApphookReloadMiddleware",
]
```

mysite/myapp/templates/myapp/hello.html

```
{% extends CMS_TEMPLATE %}

{% block content %}
<div class="mx-5 container my-5">
  <h1>
    Hello
    {% if request.user.is_authenticated %}
      {{ request.user.first_name }} {{ request.user.last_name }} ({{ request.user.username }})
    {% else %}
      Guest
    {% endif %}
    on my site.
  </h1>
</div>
{% endblock content %}
```

mysite/myapp/views.py

```
from django.views.generic.base import TemplateView

class MyView(TemplateView):
    template_name = "myapp/hello.html"
```

mysite/myapp/cms_apps.py

```
from cms.app_base import CMSApp
from cms.apphook_pool import apphook_pool

from django.urls import path

from .views import MyView

@apphook_pool.register
class MySiteApphook(CMSApp):

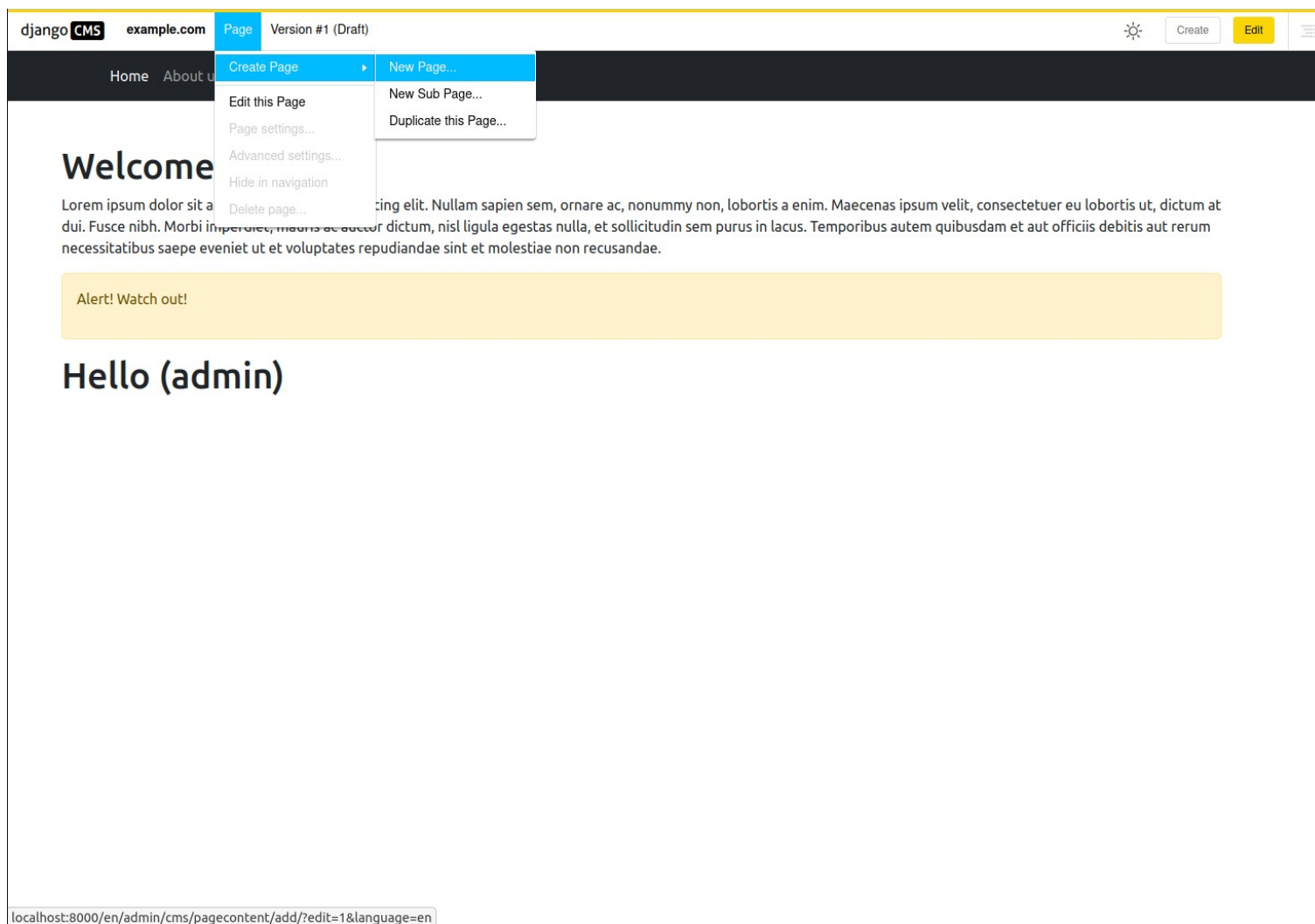
    app_name = "my_site_hello"
    name = "My Site Hello"

    def get_urls(self, page=None, language=None, **kwargs):
        return [
            path("", MyView.as_view()),
        ]
```



Django CMS – vývoj

Vytvoření aplikace – vytvoření stránky



Django CMS – vývoj

Vytvoření aplikace – hlavní nastavení stránky

The screenshot displays the Django CMS admin interface. At the top, the browser address bar shows 'localhost:8000/en/admin/cms/placeholder/object/10/preview/1/#'. The page header includes 'django CMS', 'example.com', 'Page', and 'Version #1 (Draft)'. A navigation menu contains 'Home', 'About us', 'Application form', and 'Hello'. A 'New page' modal window is open, containing the following fields:

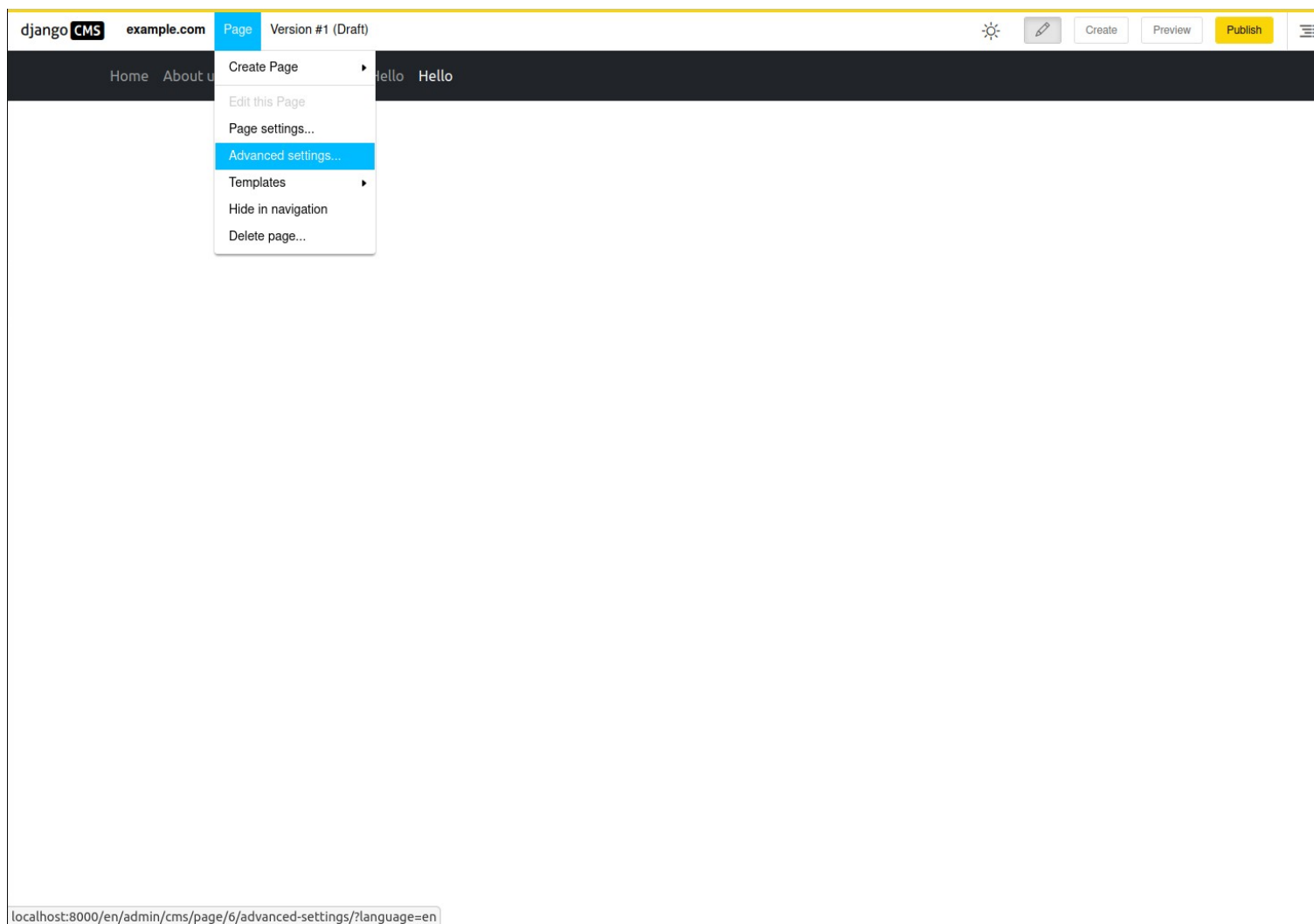
- Title:** Input field with 'Hello' entered. Below it, the text 'The default title' is displayed.
- Slug:** Input field with 'hello' entered. Below it, the text 'The part of the title that is used in the URL' is displayed.
- Menu Title:** Empty input field. Below it, the text 'Overwrite what is displayed in the menu' is displayed.
- Page Title:** Empty input field. Below it, the text 'Overwrites what is displayed at the top of your browser or in bookmarks' is displayed.
- Description meta tag:** Empty text area. Below it, the text 'A description of the page used by search engines...' is displayed.

At the bottom of the modal, there are three buttons: 'Cancel', 'Save and continue editing', and 'Save'.



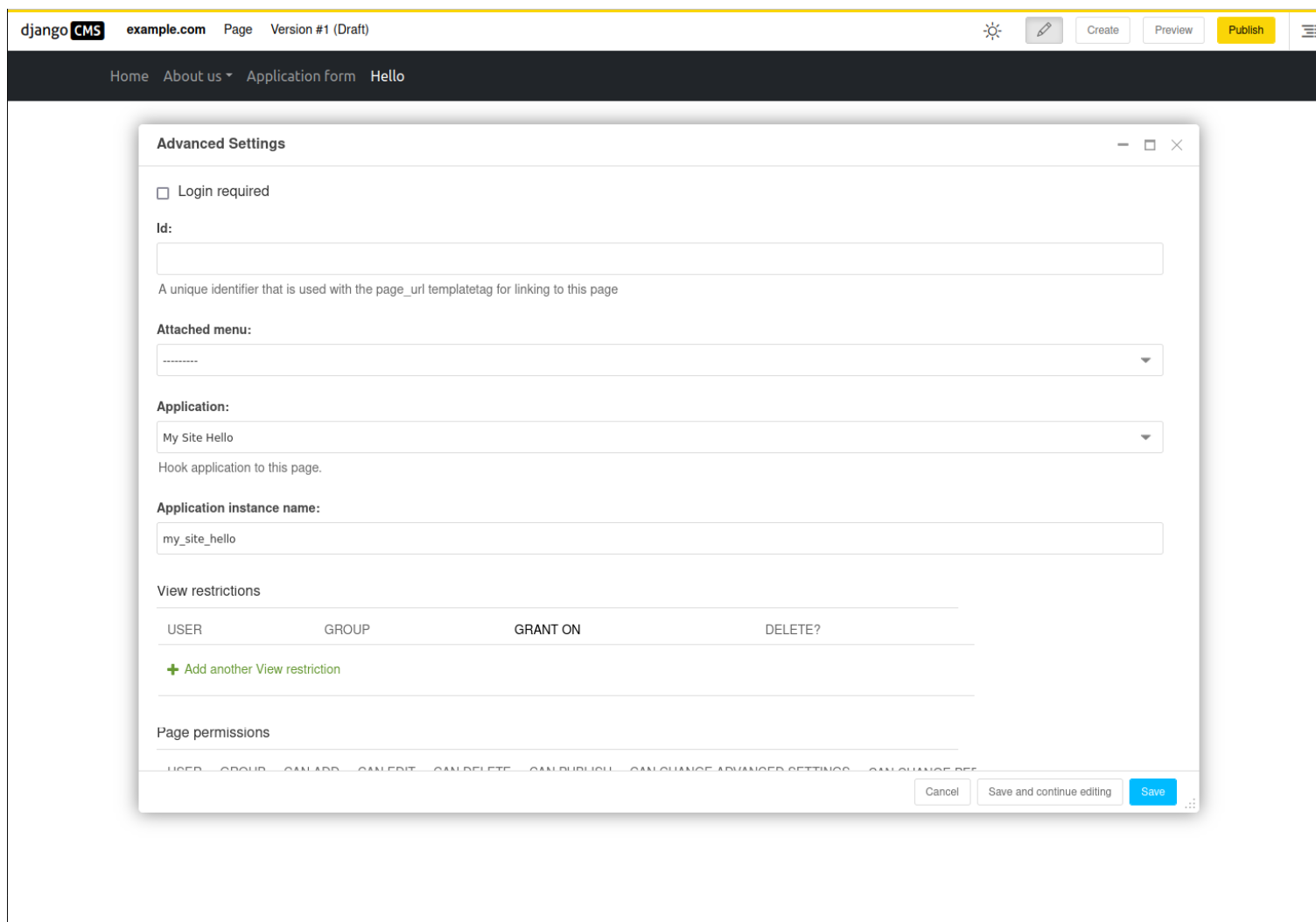
Django CMS – vývoj

Vytvoření aplikace – rozšířená nastavení stránky



Django CMS – vývoj

Vytvoření aplikace – připojení aplikace „My Site Hello“ do stránky



The screenshot shows the Django CMS interface. At the top, the browser address bar displays "django CMS example.com Page Version #1 (Draft)". The navigation menu includes "Home", "About us", "Application form", and "Hello". The main content area is partially obscured by a modal dialog titled "Advanced Settings".

The "Advanced Settings" dialog contains the following fields and options:

- Login required
- Id:** [text input field]
A unique identifier that is used with the page_url templatetag for linking to this page
- Attached menu:** [dropdown menu]
- Application:** [dropdown menu with "My Site Hello" selected]
Hook application to this page.
- Application instance name:** [text input field with "my_site_hello"]
- View restrictions:**

USER	GROUP	GRANT ON	DELETE?
+ Add another View restriction			
- Page permissions:**

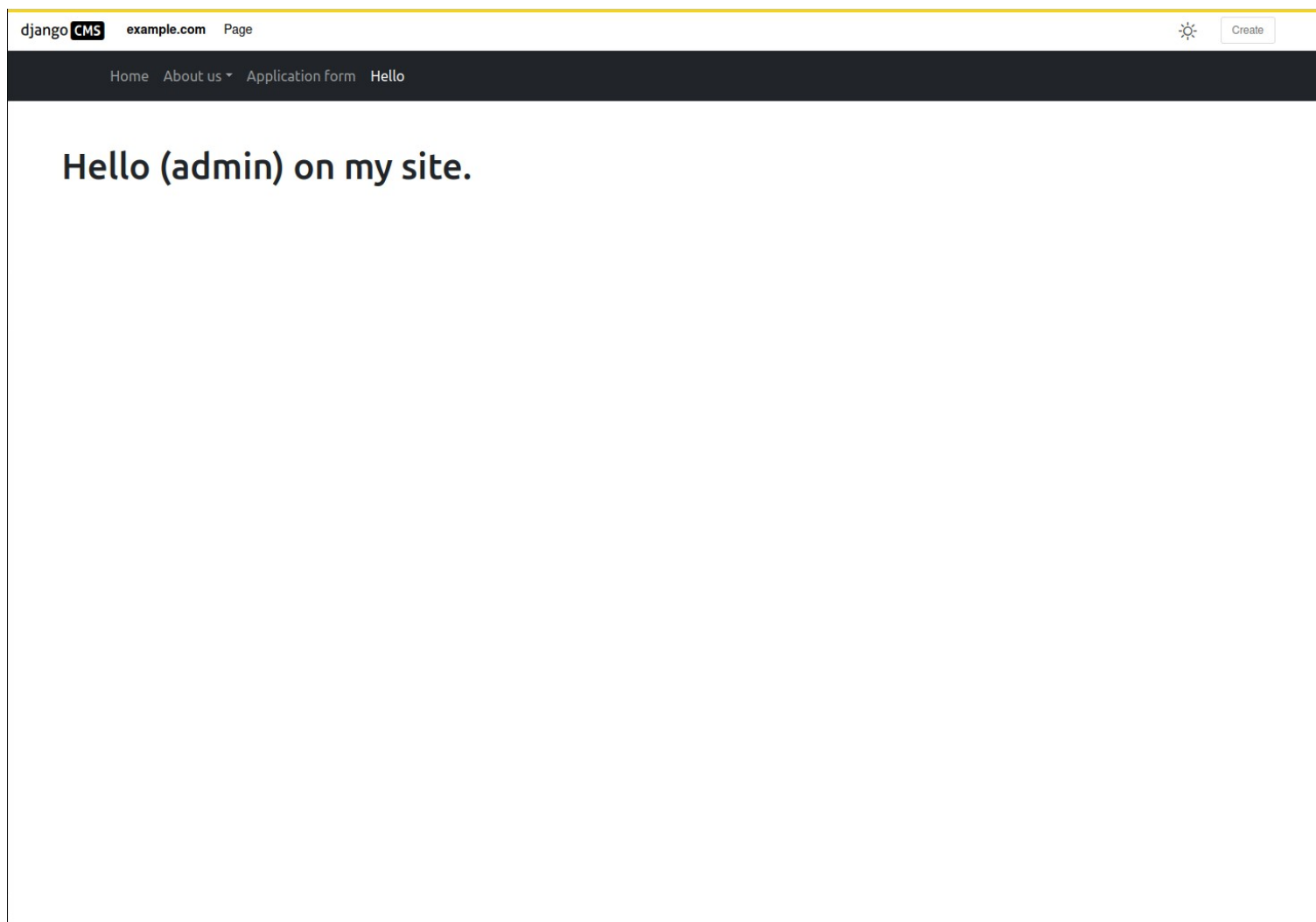
USER	GROUP	CAN ADD	CAN EDIT	CAN DELETE	CAN PUBLISH	CAN CHANGE ADVANCED SETTINGS	CAN CHANGE REF
------	-------	---------	----------	------------	-------------	------------------------------	----------------

At the bottom of the dialog, there are three buttons: "Cancel", "Save and continue editing", and "Save".



Django CMS – vývoj

Vytvoření aplikace – zobrazení aplikace „My Site Hello“ na webu



Django CMS – vývoj

Vytvoření aplikace – zobrazení ikony aplikace v seznam stránek

The screenshot displays the Django CMS admin interface for 'example.com'. The top navigation bar includes 'django CMS', 'example.com', and 'Page'. A search bar and a 'Create' button are also visible. The main content area is divided into two sections: 'Page Tree (example.com)' and 'Main Navigation'.

The 'Page Tree' section shows a list of pages with columns for 'View', 'EN', and 'Menu'. The pages listed are 'Home', 'About us', 'Application form', and 'Hello'. Each page has a 'View' icon, an 'EN' status indicator, a 'Menu' icon, and a 'New Page' button.

The 'Main Navigation' section shows a list of navigation items with columns for 'View', 'EN', and 'Menu'. The items listed are 'Home', 'About us', 'Application form', and 'Hello'. Each item has a 'View' icon, an 'EN' status indicator, a 'Menu' icon, and a 'New Page' button.

The left sidebar contains a search bar and several sections with '+ Add' buttons:

- AUTHENTICATION AND AUTHORIZATION
 - Groups + Add
 - Users + Add
- DJANGO CMS
 - Page contents + Add
 - Pages global permissions + Add
 - User groups (page) + Add
 - Users (page) + Add
- DJANGO CMS ALIAS
 - Aliases + Add
 - Categories + Add
- DJANGO CMS VERSIONING
 - Alias content versions
 - Page content versions
- FILER
 - Folders
 - Thumbnail options + Add
- SITES
 - Sites + Add



Django CMS – vývoj

Vytvoření pluginu nebo aplikace – dokumentace na <https://docs.django-cms.org/>

The screenshot displays the Django CMS documentation page for version 4.1.2. The page is titled "django CMS documentation" and features the Django CMS logo. The main content is divided into several sections:

- Philosophy:** The design philosophy of django CMS is to solve something complex with many simple things. The core of django CMS is designed to be simple and integrate with simple packages to create complex applications. For example, you may add `django-cms-versioning` to manage versions of your content, `django-cms-moderation` to define workflows for how content moves from authoring to being published.
- Overview:** django CMS is a modern web publishing platform built with Django, the web application framework "for perfectionists with deadlines". django CMS offers out-of-the-box support for the common features you'd expect from a CMS, but can also be easily customised and extended by developers to create a site that is tailored to their precise needs. This is the developer documentation. To get an overview on how to use django CMS, see the [django CMS User Guide](#).
- Tutorials:** Start here as a new django CMS developer:
 - installation
 - using additional packages
 - creating your own add-on applications.
- How-to guides:** Practical **step-by-step guides** for the more experienced developer, covering several important topics.
- Explanation:** Explanation and analysis of some key concepts in django CMS.
- Reference:** Technical reference material, for
 - classes,

On the right side, there is a "ON THIS PAGE" table of contents listing various sections like Philosophy, Overview, tutorials, how-to, explanation, reference, Join us online, Discord, StackOverflow, Why django CMS?, Software version requirements and release notes, Long-term support (LTS), Current LTS table, Unsupported LTS versions, and Django/Python compatibility table.

At the bottom right, there are buttons for "Read the Docs" and "Ask AI".



Django CMS v CZ.NIC

Kolik má CZ.NIC v současnosti webů postavených na DjangoCMS?



Covid-19



Django CMS QE

Projekt sdružující všechny vlastnosti společné pro všechny weby.

- Různá settings pro vývoj a pro produkci
- Dynamické settings Constance
- Sada pluginů rozšiřující standardní CMS (Video, Table, Newsletter, ...)
- Django-SCP
- Django Axes
- Djano Import/Export
- Aldryn forms
- Aldryn search
- Django Haystack + Whoosh

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[External plugins](#)
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[Breadcrumb plugin](#)
[Language plugin](#)
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[Video plugin](#)
[Usage](#)
[Django CMS QE](#)
[Development](#)

This Page

[Show Source](#)

Quick search

Django CMS QE's documentation

Django CMS Quick & Easy provides all important modules to run new page without a lot of coding. Aims to do it very easily and securely.

To make it done, it provides a lot of plugins, configurations and gluing it all together. Django CMS QE has several dependencies which aims to glue plugins which works together with base safe configuration so not every app needs to do it again by hand.

Instalation

```
pip install django-cms-qe
```

Usage

Create your Django app and follow instructions at [Usage](#).

Plugins

- [External plugins](#)
 - [Images and files](#)
 - [Forms](#)
 - [CKEditor](#)
 - [Bootstrap 4](#)
 - [Google Map](#)
- [Analytics service integration](#)
 - [Usage](#)
 - [Google Analytic](#)
 - [Piwik](#)
- [Auth plugin](#)
 - [Usage](#)
 - [API](#)
- [Breadcrumb plugin](#)
 - [Usage](#)
 - [API](#)
- [Language plugin](#)
 - [Usage](#)
 - [API](#)



Django CMS – vlastní pluginy

Pluginy z dílny CZ.NIC






Search projects

Help Sponsors Log in Register

Filter by classifier

- Framework
- Topic
- Development Status
- License
- Programming Language
- Operating System
- Environment
- Intended Audience
- Natural Language
- Typing

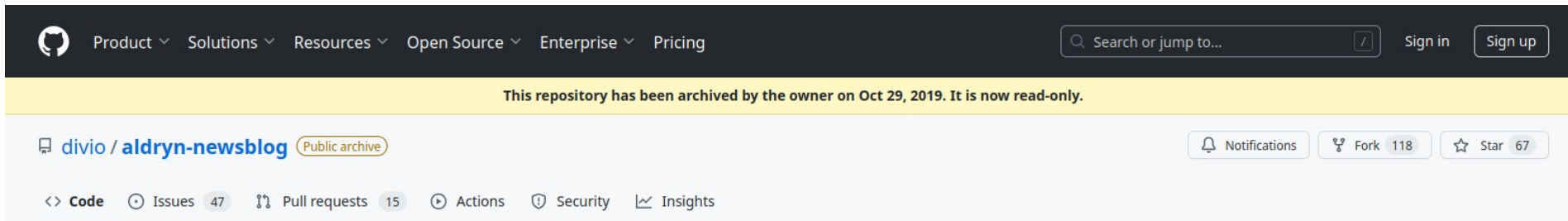
Order by Relevance

 djangocms-oidc 4.2.0 Plugin OIDC (OpenID Connect) into Django CMS.	Jun 18, 2024
 djangocms-oidc-form-fields 3.0.1 Plugin OIDC (OpenID Connect) for Aldryn form fields.	Jul 3, 2024
 djangocms-git-md-page 2.0.0	Oct 10, 2023
 djangocms-mapycz-markers 2.0.0 DjangoCMS Mapy.cz Markers	Mar 28, 2023
 djangocms-catalog-books 1.1.0 DjangoCMS Catalog of Books	Oct 3, 2024



Django CMS – problémy při vývoji

Některé projekty se přestaly vyvíjet.

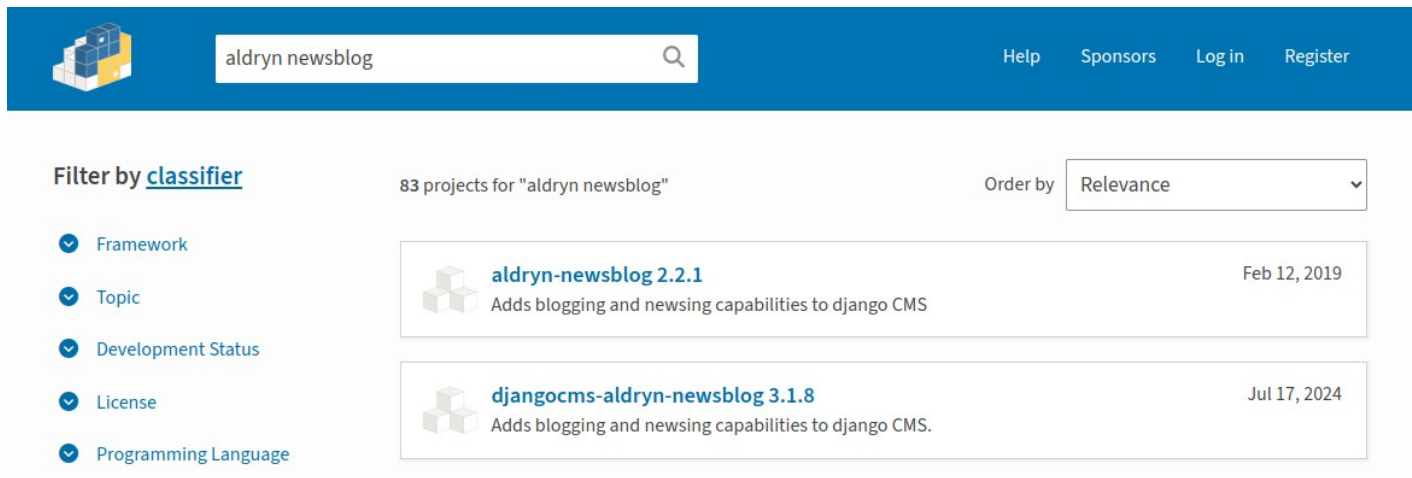


The screenshot shows the GitHub interface for the repository 'divio / aldryn-newsblog'. A yellow banner at the top states: 'This repository has been archived by the owner on Oct 29, 2019. It is now read-only.' Below this, the repository name is shown with a 'Public archive' badge. Navigation links include 'Code', 'Issues 47', 'Pull requests 15', 'Actions', 'Security', and 'Insights'. On the right, there are buttons for 'Notifications', 'Fork 118', and 'Star 67'.

Při přechodu na vyšší verze přestávají být nevyvíjené projekty kompatibilní.

Řešení:

- Přejít na jiný projekt.
- Převzetí projektu a vyřešení kompatibility.



The screenshot shows a search results page for 'aldryn newsblog'. The search bar contains the text 'aldryn newsblog'. Below the search bar, there are links for 'Help', 'Sponsors', 'Log in', and 'Register'. The results are filtered by 'classifier' and ordered by 'Relevance'. Two results are shown:

Project Name	Description	Date
aldryn-newsblog 2.2.1	Adds blogging and newsing capabilities to django CMS	Feb 12, 2019
django-cms-aldryn-newsblog 3.1.8	Adds blogging and newsing capabilities to django CMS.	Jul 17, 2024



DjangoCMS – podpora při vývoji

Makefile pro vývoj projektu.

```
git clone --recursive git@gitlab...
make run
```

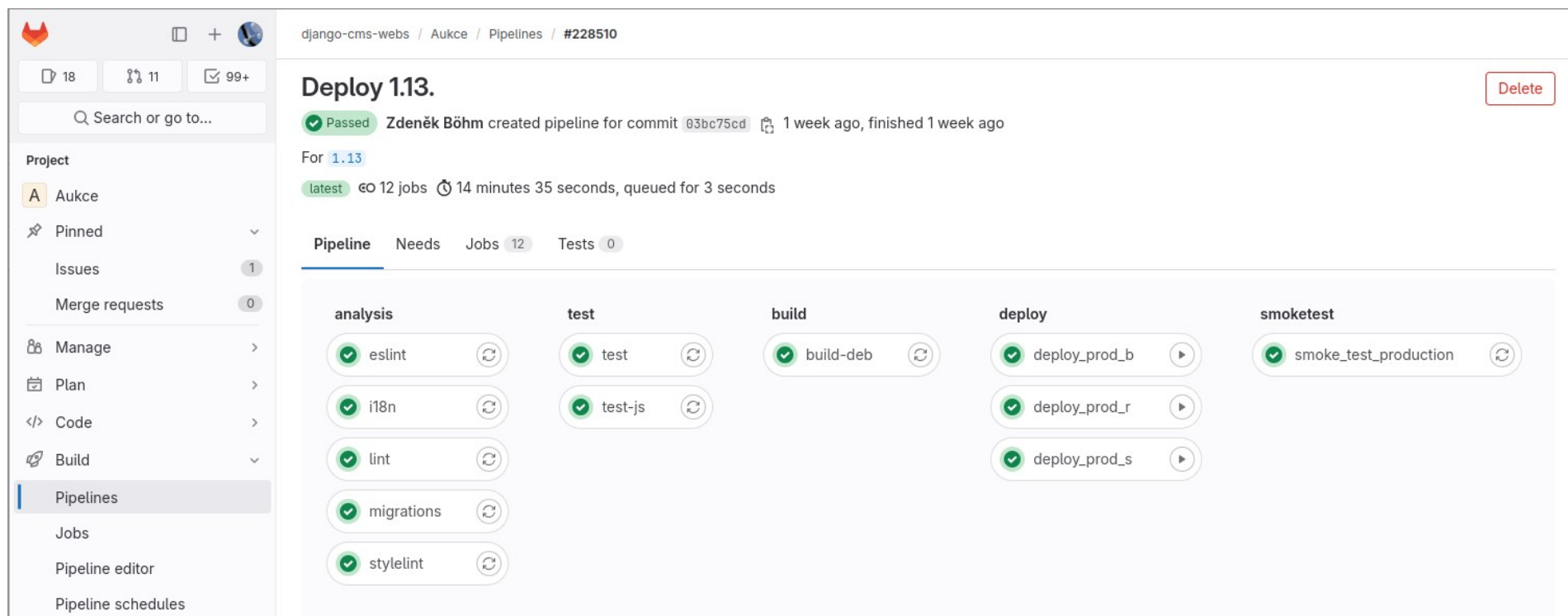
```
zbohm@zboffice:~/cznic/djcms/overeno$ make
Help for the project overeno_web. For more type make more-help

make download-backup
  Download backup data from zbohm@zboffice.nic.cz into ~/dcweb/overeno_web/.
make use-backup
  Replace the database and media from the backup in ~/dcweb/overeno_web/.
  If there are multiple versions, load them with the v parameter. For example make use-backup v=1
make run
  Run the site (DEBUG = True) on port 8142.
  For a different port, use SERVER_IP_PORT.
  make run SERVER_IP_PORT=8000
  For running the site with sqlite database use DATABASE_URL.
  make run DATABASE_URL=sqlite:///home/zbohm/cznic/djcms/overeno/current/db.sqlite3
make shell
  Run Django manage shell (python).
make dbshell
  Run current database shell (psql when Postgres is used).
make cmd cmd=<command>
  Run any django-admin command. For example:
  Create superuser if not exists:
  make cmd cmd=create_superuser_if_not_exists
  Create superuser with username zbohm:
  make cmd cmd='createsuperuser --username=zbohm'
  Change password for existing user zbohm:
  make cmd cmd='changepassword zbohm'
  Set permission superuser for existing user zbohm:
  make shell <<< 'from django.contrib.auth import get_user_model;u=get_user_model().objects.get(username="zbohm");u.is_superuser=True;u.save()'
make dumpdata DATAFILE=<file>
  Dump current database data into DATAFILE file in format json. For example make dumpdata DATAFILE=./site.json
make loaddata DATAFILE=<file>
  Load json data into the current database. For example make loaddata DATAFILE=./site.json
make dump-backup
  Dump current database data into ~/dcweb/overeno_web/backup-db.json and Postgres database into ~/dcweb/overeno_web/backup-db.sql.gz.
  Archive media into ~/dcweb/overeno_web/backup-media.tar.
  Create more versions with parameter v. For example make dump-backup v=1
```



Django CMS – deployment

Nasazení projektu přes GitLab jako .deb balík



The screenshot shows the GitLab CI/CD interface for a pipeline named 'Deploy 1.13'. The pipeline is in a 'Passed' state, created by Zdeněk Böhm for commit 03bc75cd, finished 1 week ago. It is for version 1.13 and the latest commit. The pipeline consists of 12 jobs and took 14 minutes and 35 seconds to complete. The stages and their jobs are:

- analysis**: eslint, i18n, lint, migrations, stylelint
- test**: test, test-js
- build**: build-deb
- deploy**: deploy_prod_b, deploy_prod_r, deploy_prod_s
- smoketest**: smoke_test_production

.gitlab-ci.yml

```
.job_template: &build_deb
  stage: build
  script:
    - *ssh_install
    - *package_vars
    - make prepare-dev
    - make build
```

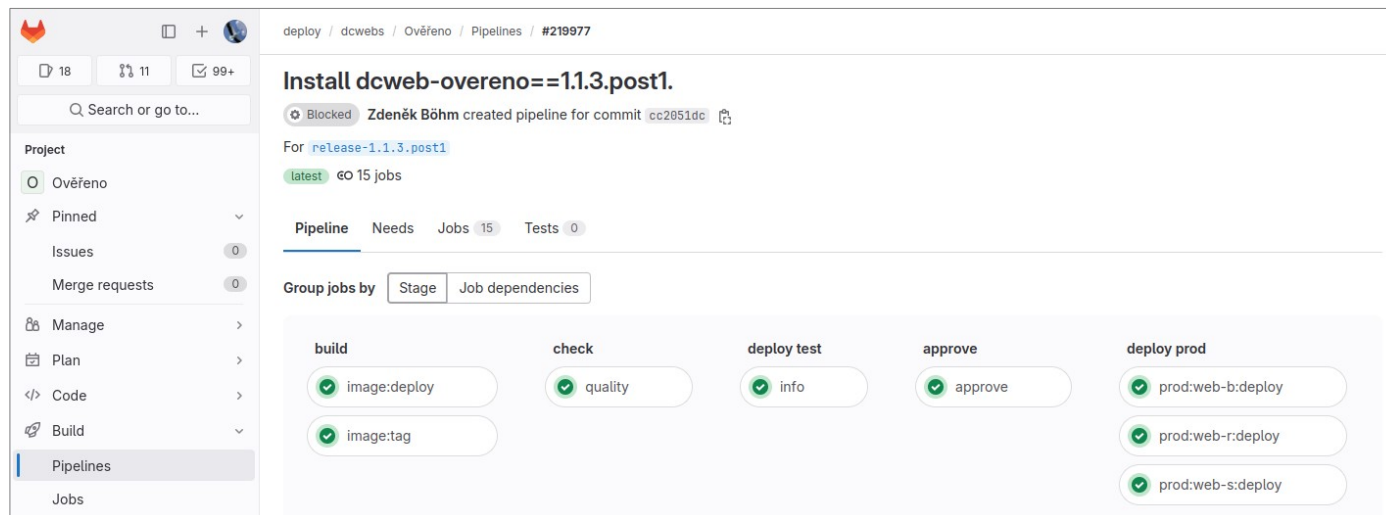
Makefile

```
build: check-latest-tag copy-debian copy-scripts copy-conf venv collectstatic
      dpkg-buildpackage -us -uc -b
      lintian --no-tag-display-limit \
        ../${PACKAGE_NAME}_${shell git describe --tags}-${UBUNTU_CODE}_amd64.deb
```



Django CMS – deployment

Nasazení projektu přes GitLab v Docker kontejneru



.gitlab-ci.yml

```
image:tag:
  extends: .build_task
  script:
    - docker login ...
    - make build

image:deploy:
  script:
    - docker pull "$DEPLOY_IMAGE"
    - docker build --cache-from "$DEPLOY_IMAGE" \
      -f deploy/Dockerfile -t "$DEPLOY_IMAGE" deploy
    - docker push "$DEPLOY_IMAGE"
```

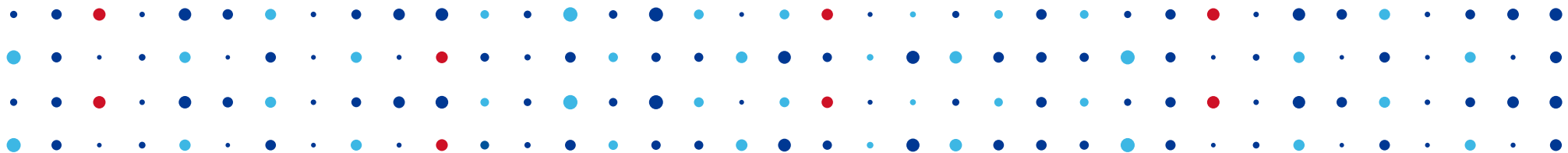
Makefile

```
build:
  docker build -t ${UWSGI_IMAGE} ${DOCKER_BUILD_ARGS} . \
    -f uwsgi/Dockerfile --no-cache
  docker tag ${UWSGI_IMAGE} $$REPO/${UWSGI_IMAGE}
  docker push $$REPO/${UWSGI_IMAGE}
  docker build -t ${NGINX_IMAGE} ${DOCKER_BUILD_ARGS} . \
    -f nginx/Dockerfile --no-cache
  docker tag ${NGINX_IMAGE} $$REPO/${NGINX_IMAGE}
  docker push $$REPO/${NGINX_IMAGE}

deploy:
  docker pull ${UWSGI_IMAGE}
  docker pull ${NGINX_IMAGE}

  docker stack deploy --prune -c docker-compose.yml dcweb_overeno
  docker stack ps --no-trunc dcweb_overeno
```





Děkuji za pozornost

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