Django Convenience Features



Saravanan Dhandapani SOFTWARE ARCHITECT

@dsharu

Localization and Translation



Global customers

Convert local preferences

- mm/dd/yyyy (US)
- dd/mm/yyyy (IN)

Http Accept-language

<language>_<country> (II_CC)

I18N and L10N

Demo



Internationalization



FTP Location

http://ftp.gnome.org/pub/gnome/binaries/win32/dependencies/

gettext-runtime

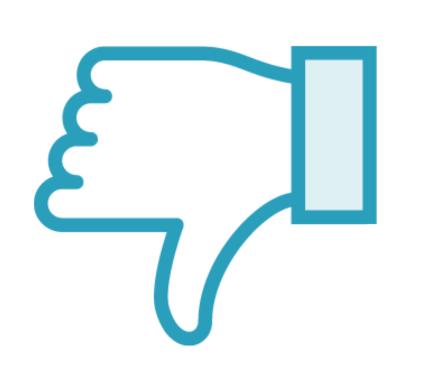
gettext-tools



Django Debug Toolbar



Limitations of Debug Toolbar



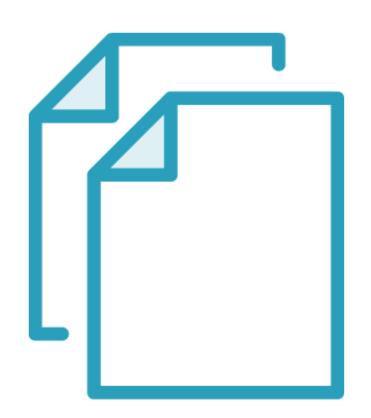
Wont work if the html has no body tag

Known issues with dynamic rendering

Django Flatpages



Flatpages



Pages that don't need modification

- About us/Contact us/Privacy

Decouple content developers

Demo



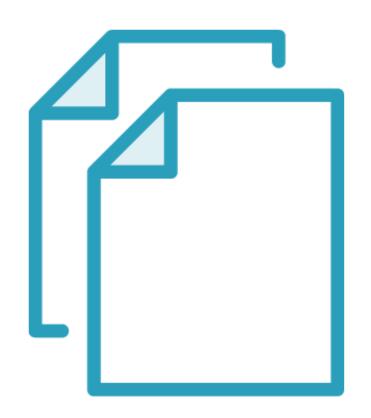
Django flatpages



Django Static Files



Static Files



Images, stylesheets and html files

Serve the files from one single location



Collectstatic



Search for files in STATICFILES_DIRS

Copy to STATIC_ROOT

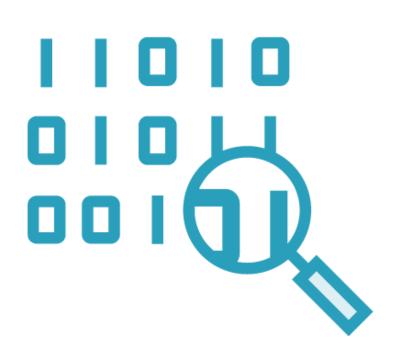
Search under STATIC_ROOT

Serve with STATIC_URL

Django System Check Framework



Django System Check Framework



Detect problems and provide hints to fix

Run automatically when the server starts

Extensible framework

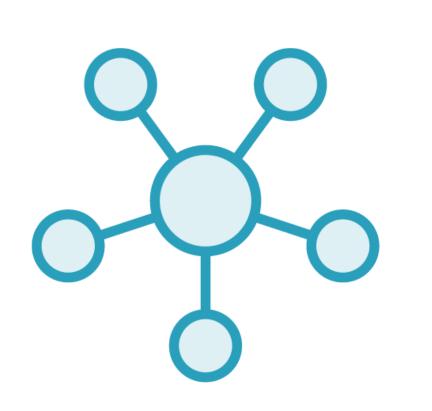
SILENCED_SYSTEM_CHECKS to suppress known warnings



Django Syndication Framework



Syndication Framework



Push new web content

RSS/Atom feeds

Demo



Django syndication framework



Django Sitemap Framework



Sitemap Framework



Sitemap XML

- file that interacts with search engine

Automate the creation of this XML

Installed_apps

- django.contrib.sitemaps

Templates

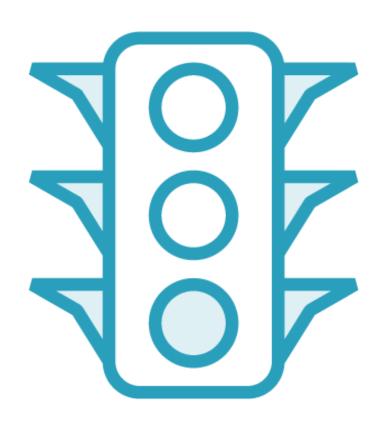
django.template.backends.Django.Django
 Templates

Create a subclass of sitemap and add a path in urls.py file

Django Signals and Sending Emails



Django Signals



Communicate changes in a decoupled application

Offers built-in signals

pre_save, post_save, pre_delete, post_delete

Observer design pattern



Demo



Django signal dispatchers



Send Email



A lightweight framework

- django.core.mail

Subject

Message

Sender address

Recipient address

Fail_silently



Send Email Configuration



Email_backend

Email_host

Email_port

Email_host_user

Email_host_password

Email_use_tls/Email_use_ssl



Wrap Up



