Zend Django App

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Modelos y Autenticación

1.1. django.contrib.auth.backends

- BaseBackend
- ModelBackend
- AllowAllUsersModelBackend
- RemoteUserBackend
- AllowAllUsersRemoteUserBackend

1.2. django.contrib.auth.models

- User
- UserManager
- AnonymousUser
- Permission
- Group

1.3. django.contrib.auth.validators

- ASCIIUsernameValidator
- UnicodeUsernameValidator

Base de Datos

2.1. auth_group

Campo	Tipo	$\mathbf{P}\mathbf{k}$	NN	\mathbf{U}	Referencia
id	integer	\boxtimes	\boxtimes		
name	varchar(150)		\boxtimes		

${\bf 2.2.} \quad auth_group_permissions$

Campo	Tipo	Pk	NN	U	Referencia
id	integer				
group_id	integer				auth_group.id
permission_id	integer		\boxtimes		auth_permission.id

Grupos únicos:

• (group_id, permission_id)

2.3. auth_permission

Campo	Tipo	Pk	NN	U	Referencia
id	integer	\boxtimes	\boxtimes	\boxtimes	
content_type_id	integer		\boxtimes		django_content_type.id
codename	varchar(100)		\boxtimes		
name	varchar(255)		\boxtimes		

Grupos únicos:

• (content_type_id, codename)

2.4. auth_user

Campo	Tipo	Pk	NN	U	Referencia
id	integer	\boxtimes		\boxtimes	
password	varchar(128)				
last_login	datetime				
is_superuser	bool		\boxtimes		
username	varchar(150)		\boxtimes		
$first_name$	varchar(30)				
email	varchar(254)		\boxtimes		
is_staff	bool				
is_active	bool				
$date_joined$	datetime				
$last_name$	varchar(150)		\boxtimes		

$\mathbf{2.5.} \quad auth_user_groups$

Campo	Tipo	Pk	NN	U	Referencia
id	integer	\boxtimes		\boxtimes	
user_id	integer		\boxtimes		$auth_user.id$
group_id	integer		\boxtimes		$auth_group.id$

Grupos únicos:

• (user_id, group_id)

${\bf 2.6.} \quad auth_user_user_permissions$

Campo	Tipo	Pk	NN	U	Referencia
id	integer	\boxtimes	\boxtimes		
user_id	integer		\boxtimes		auth_user.id
permission_id	integer		\boxtimes		auth_permission.id

Grupos únicos:

• (user_id, permission_id)

2.7. django_admin_log

Campo	Tipo	Pk	NN	U	Referencia
id	integer			\boxtimes	
action_time	datetime				
object_id	text				
object_repr	varchar(200)				
$change_message$	text				
content_type_id	integer				django_content_type.id
user_id	integer		\boxtimes		auth_user.id
action_flag	smallint unsigned				

${\bf 2.8.} \quad {\bf django_content_type}$

Campo	Tipo	Pk	NN	U	Referencia
id	integer			\boxtimes	
app_label	varchar(100)				
model	varchar(100)		\boxtimes		

Grupos únicos:

■ (app_label, model)

2.9. django_migrations

Campo	Tipo	Pk	NN	U	Referencia
id	integer	\boxtimes	\boxtimes	\boxtimes	
app	varchar(255)		\boxtimes		
name	varchar(255)		\boxtimes		
applied	datetime		\boxtimes		

2.10. django_session

Campo	Tipo	Pk	NN	U	Referencia
session_key	varchar(40)		\boxtimes	\boxtimes	
session_data	text		\boxtimes		
expire_date	datetime		\boxtimes		

Diagrama de Clases

3.1. django.contrib.auth.models

```
username: string(150)
first_name: string(30)
last_name: string(30)
email: email
password: hash
groups: Group[]
user_permissions: Permission[]
is_staff: boolean
is_active: boolean
is_superuser: boolean
last_login: datetime
date_joined: datetime
is_authenticated: boolean
is_anonymous: boolean
get_username(): string
get_full_name(): string
get_short_name(): string
set_password(raw_password)
check_password(raw_password): boolean
set_unusable_password()
has_usable_password(): boolean
get_user_permissions(obj=None): string[]
get_group_permissions(obj=None): string[]
get\_all\_permissions(obj=None): string[]
has_perm(perm, obj=None): boolean
has_perms(perm[], obj=None): boolean
has_module_perms(app_label): boolean
email_user(subject, message, from_email=None, **kwargs)
```

UserManager: BaseUserManager

create_user(username, email=None, password=None, **extra_fields): User create_superuser(username, email=None, password=None, **extra_fields) with_perm(perm, is_active=True, include_superusers=True, backend=None, obj=None): User[]

Permission

name: string

content_type: +django_content_type

codename: string

Group

name: string

permissions: Permission[]

Formatos:

• perm: "app_label.permission_codename"

3.2. django.contrib.contenttypes.models

ContentType

app_label: string model: string name: string

get_object_for_this_type(**kwargs): ModelClassObjects

 $model_class(): ModelClass$

ContentTypeManager

clear_cache()

 $get_for_id(id)$: ContentType

get_for_model(model, for_concrete_model=True): ContentType get_for_models(*models, for_concrete_model=True): dict

 $get_by_natural_key(app_label, model)$: ContentType

3.3. django.contrib.auth.base_user

AbstractBaseUser

UserManager

3.4. Otros

${\bf Base User Manager}$

static normalize_email(email): string get_by_natural_key(username): User

 $make_random_password(length{=}10,\,allowed_chars{=}$

'abcdefghjkmnpqrstuvwxyzABCDEFGHJKLMNPQRSTUVWXYZ23456789'): string

3.5. zend_django.functional_tests.utils_test

```
FuncionalTest: StaticLiveServerTestCase

main_model_name: string = ""
base_data_model: model = None
duplicar: string = "alfa"
actualizar1: string = "beta"
actualizar2: string = "beta_002"

setUp()
tearDown()
xPathFind(xpath, multiple=False, base_object = None)
Wait2PresenceOf(xpath, seconds=30)
t_list(search_text="alfa")
t_list_to_crud_pages()
t_read_to_crud_pages()
t_update_right()
```

```
URLsTests: SimpleTestCase
model_name: string = ""
main_views: views_modelule = None
t_url_resolves(url, view)
t_list_url_resolves()
t_crerate_url_resolves()
t_update_url_resolves()
t_delete_url_resolves()
t_read_url_resolves()
```

```
ViewsTests: TestCase
model_name: string = ""
duplicar: string = "alfa"
actualizar1: string = "beta"
actualizar2: string = "beta_002"
inexistente: string = "inexistente"
idinexistente: int = 99999
main_views: views_module = None
campo_base: string = ""
base\_data\_model: model = None
objs: data\_object = []
getData(obj)
preSetUp()
t_list_get_post(method="get")
t_list_post_searching()
t_list_post_no_searching()
t_list_post_searching_inexistent()
t_list_post_no_searching_inexistent()
t_read_get_existente(template_file="zend_django/html/form.html")
t_read_get_inexistente()
t_read_post(id)
t_create_get_post(looking_for, method="get", template_file="zend_django/html/form.html")
t_create_post_well(data=None)
t_create_post_duplicating(looking_for, data=None, template_file="zend_django/html/form.html")
t_update_get_post(id, looking_for, method="get", template_file="zend_django/html/form.html")
t_update_get_inexistente()
t_update_post_well(data=None)
t_update_post_duplicating(looking_for, data=None, template_file="zend_django/html/form.html")
t_update_post_inexistente_empty()
t_update_post_inexistente(data)
t_update_post_inexistente_well()
t_update_post_inexistente_duplicating()
t_delete_get_existente(obj)
t_delete_get_inexistente()
t_delete_post(id)
```

Utilerias HTML

4.1. zend_django.templatetags.html_helpers

4.1.1. Funciones

```
get_apps() : list
```

4.1.2. Inclusion Tags

```
{% tag %}
generate_get_css_apps() : {'apps': list_obj}
generate_get_js_apps() : {'apps': list_obj}
requiere_ui_css(context) : {'apps': ['jquery-ui']} | {}
requiere_ui_js(context) : {'apps': ['jquery-ui.min', 'datepicker-es'], 'req_ui': True} | {}
context.request.META['"HTTP_USER_AGENT"]
```

${\bf 4.2.} \quad {\bf zend_django.templatetags.op_helpers}$

4.2.1. CRUDs

- create
- create_f
- \blacksquare read
- update
- delete
- list

4.2.2. Actions

- save
- ok
- cancel
- send_mail
- call
- send_whatsapp
- reset_password

4.2.3. Simple Tags

```
{% tag %}

crud_icon(operation): string
crud_label(operation): string
crud_smart_button(operation): string
action_icon(action): string
action_label(action): string
action_smart_button(operation): string
```

4.3. html_struct.html

Llamada como	zend_django/html/html_struct.html
Carga	html_helpers
	op_helpers
	parametros_helpers

```
<!doctype html>
  <head>
      <title>{% parametro_de_sistema seccion='SitioGeneral' nombre='site_title' %}</title>
      < | Sink rel="icon" href="{{ MEDIA_URL }}{% parametro_de_sistema seccion="SitioGeneral" nombre="favicon" %}" type="image/png" />
      {% generate_get_css_apps %}
      {% requiere_ui_css %}
      <script type="text/javascript">
        let BASE_URL = '//{{ request.get_host }}'
 <body>
      {% include "zend_django/menuopc/main_menu.html" %}
      {% block extraaftermain %}
      (% endblock%)
        .container
            {% include "zend_django/html/toolbar.html" %}
            <h1>
               {{ titulo | safe }}
               <small class="text-muted">
                {{ titulo_descripcion | safe }}
               </small>
            </h1>
            {% block extrabefore %}
            {% endblock%}
            {% block content %}
            {% endblock %}
            (% block extraafter %)
            {% endblock%}
      {% include "zend_django/html/footer.html" %}
      {% generate_get_js_apps %}
      {% requiere_ui_js %}
      {% if req_chart %}
        <script type="text/javascript" src="{% static 'api/js/chart-272.min.js' %}"></script>
      {% endif %}
      {% if read_only %}
        App.setReadOnlyForm();
      {% endif %}
```

Figura 4.1: html_struct.html

4.4. TOOLBAR.HTML

4.4. toolbar.html

4.5. form.html

Llamada como	zend_django/html/form.html
Extiende	zend_django/html/html_struct.html
Carga	crispy_forms_tags
	op_helpers

```
forms = {
    'top': [{'title ':'XXXX', 'form': form_object}, ...],
    'left': [...],
    'right': [...],
    'bottom': [...],
}
```

.top					
rm_obj.title					
Select fields to update status					
Position					
Senior Engineer				ok	
Company Tesla Motors				ok	
Working from		Working to	Current time	UK	
October ▼ 2011	<u> </u>	- Decembe		ok	
:left		forms	right		
ab: 4:41 a		رع ا	rm obj titlo		
rm_obj.title		'	orm_obj.title		
Select fields to update status Mark all as	OK	-	Select fields to update statu	Mark all as OK	
O Engineering	ok		○ Engineering		ok
O Thinking	ok		O Thinking		ok
○ Working	ok		○ Working		ok
O Sleeping	ok		O Sleeping		ok
O Eating	ok		O Eating		ok
O Walking	ok		O Walking		ok
O Walking	OK OK		O (Vidining) UK
bottom					
rm_obj.title					
Select fields to update status					
Position					
Senior Engineer				ok	
Company				_	
☐ Tesla Motors Working from		Working to	Current time	ok	
October 2011	<u> </u>	December		ok	

Figura 4.2: forms.html