Dokumentasjon gruppe 13

1 Models

ER Diagram for the database.
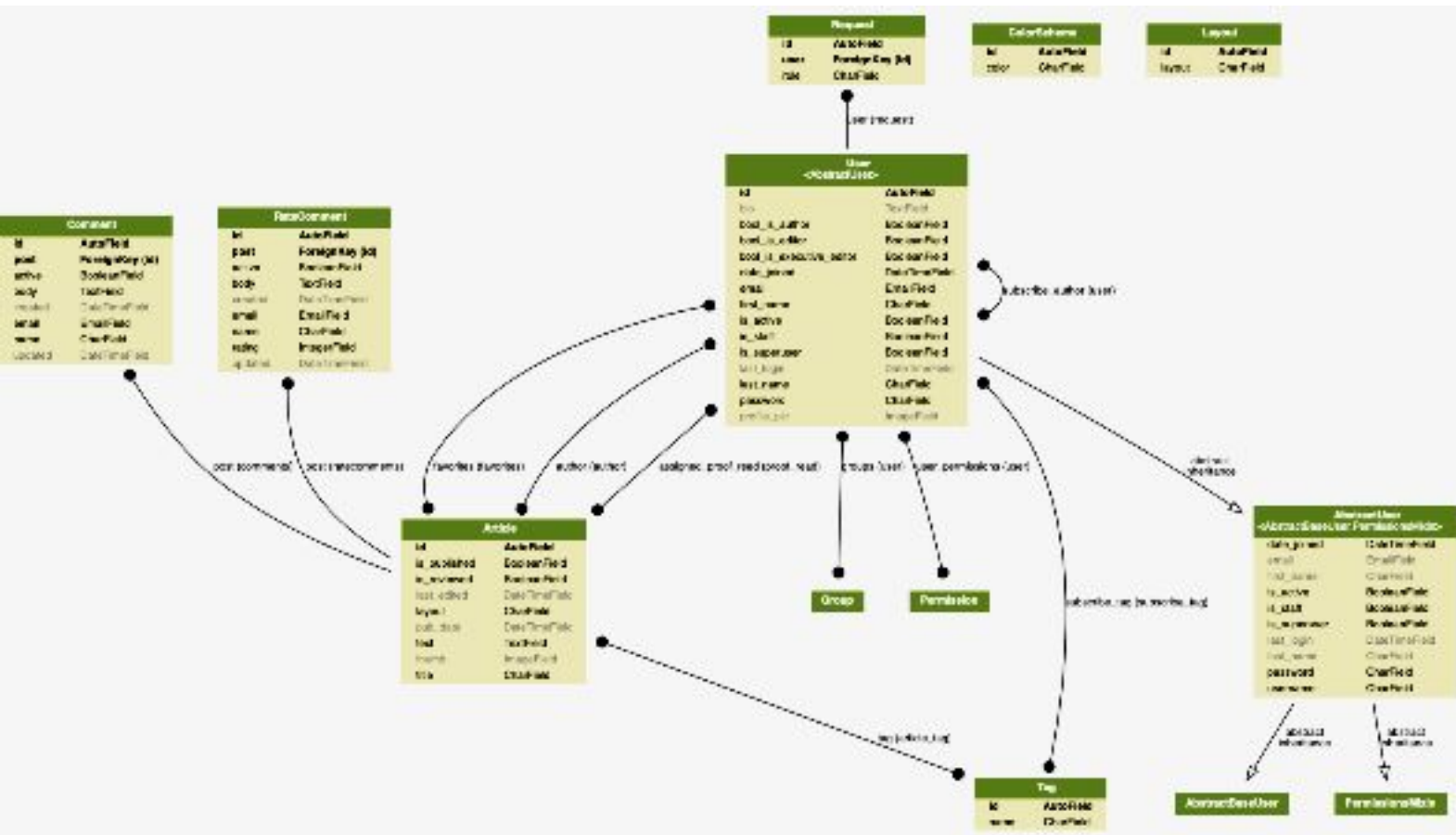
1.2 User

User(id, password, last_login, is_superuser, is_staff, is_active, date_joined, email, bool_is_author, bool_is_editor, bool_is_executive_editor, first_name, last_name, bio, profile_pic)

Field	Type	Description
author.all	List	all related catalog.Article objects
author.count	Integer	number of related catalog.Article objects
bio	Text	bio
bool_is_author	Boolean (Either True or False)	Author - Designates whether user is an author

bool_is_editor	Boolean (Either True or False)	Editor - Designates whether user is an editor
bool_is_executive_editor	Boolean (Either True or False)	Executive editor - Designates whether user is an executive editor
date_joined	Date (with time)	date joined
email	Email address	email address
favorites.all	List	all related catalog.Article objects
favorites.count	Integer	number of related catalog.Article objects
first_name	String (up to 30)	first name
get_image		
groups.all	List	all related auth.Group objects
groups.count	Integer	number of related auth.Group objects
id	Integer	ID
is_active	Boolean (Either True or False)	active - Designates whether this user should be treated as active. Unselect this instead of deleting accounts.
is_admin		
is_author		
is_editor		
is_executive_editor		
is_staff	Boolean (Either True or False)	staff status - Designates whether the user can log into this admin site.
is_superuser	Boolean (Either True or False)	superuser status - Designates that this user has all permissions without explicitly assigning them.
last_login	Date (with time)	last login
last_name	String (up to 30)	last name
logentry_set.all	List	all related admin.LogEntry objects
logentry_set.count	Integer	number of related admin.LogEntry objects

name		
password	String (up to 128)	password
profile_pic	Image	profile pic
proof_read.all	List	all related catalog.Article objects
proof_read.count	Integer	number of related catalog.Article objects
request_set.all	List	all related catalog.Request objects
request_set.count	Integer	number of related catalog.Request objects
subscribe_author.all	List	all related catalog.User objects
subscribe_author.count	Integer	number of related catalog.User objects
subscribe_tag.all	List	all related catalog.Tag objects
subscribe_tag.count	Integer	number of related catalog.Tag objects
user_permissions.all	List	all related auth.Permission objects
user_permissions.count	Integer	number of related auth.Permission objects
user_set.all	List	all related catalog.User objects
user_set.count	Integer	number of related catalog.User objects

1.2 Tag

Tag(id, name)

FIELD	TYPE	DESCRIPTION
article_tag.all	List	all related catalog.Article objects
article_tag.count	Integer	number of related catalog.Article objects
id	Integer	ID
name	String (up to 20)	name
subscribe_tag.all	List	all related catalog.User objects

subscribe_tag.count	Integer	number of related catalog.User objects

1.3 Article

Article(id, title, text, thumb, pub_date, layout, is_published, is_reviewed, last_edited)

FIELD	TYPE	DESCRIPTION
assigned_proof_read.all	List	all related catalog.User objects
assigned_proof_read.count	Integer	number of related catalog.User objects
author.all	List	all related catalog.User objects
author.count	Integer	number of related catalog.User objects
comments.all	List	all related catalog.Comment objects
comments.count	Integer	number of related catalog.Comment objects
favorites.all	List	all related catalog.User objects
favorites.count	Integer	number of related catalog.User objects
get_image		
id	Integer	ID
is_published	Boolean (Either True or False)	is published - Publish article
is_reviewed	Boolean (Either True or False)	is reviewed - Review article
last_edited	Date (with time)	last edited
layout	String (up to 3)	layout

pub_date	Date (with time)	pub date
ratecomments.all	List	all related catalog.RateComment objects
ratecomments.count	Integer	number of related catalog.RateComment objects
submit		
tag.all	List	all related catalog.Tag objects
tag.count	Integer	number of related catalog.Tag objects
text	Text	text
thumb	Image	thumb
title	String (up to 100)	title

1.4 Comment

Kommentarer som kun er synlige for editors

Comment(id, post, name, email, body, created, updated, active)

FIELD	TYPE	DESCRIPTION
active	Boolean (Either True or False)	active
body	Text	body
created	Date (with time)	created
email	Email address	email
id	Integer	ID
name	String (up to 100)	name
post	Article	the related catalog.Article object
updated	Date (with time)	updated

1.5 RateComment

Kommentarer som skrives når artikkelen er publisert

RateComment(id, post, name, email, body, created, updated, active, rating)

FIELD	TYPE	DESCRIPTION
active	Boolean (Either True or False)	active
body	Text	body
created	Date (with time)	created
email	Email address	email
id	Integer	ID
name	String (up to 100)	name
post	Article	the related catalog.Article object
rating	Integer	Rating 1-10
updated	Date (with time)	updated

1.6 Request

Request(id, user, role)

FIELD	TYPE	DESCRIPTION
id	Integer	ID
role	String (up to 30)	role
user	User	the related catalog.User object

1.7 ColorScheme

ColorScheme(id, color)

FIELD	TYPE	DESCRIPTION
color	String (up to 100)	color
id	Integer	ID

1.8 Layout

Layout(id, layout)

FIELD	TYPE	DESCRIPTION
id	Integer	ID
layout	String (up to 33)	layout

2. Forms

Form	Field(s)	Description
PostFormNew	title, text, author, thumb, layout, tag	The form used for creating new articles
PostFormEdit	title, text, author, thumb, layout, tag, is_published, assigned_proof_read, is_reviewed	The form used for editing existing articles
RegistrationForm	email, first_name, last_name, password1, password2	The form used for creating new users
EditUserForm	first_name, last_name, profile_pic, bio	The form used for updating your profile

EditorForm	is_published	The form used to publish complete articles
CommentForm	name, email, body	The form used for creating new comments between editors and authors
RateCommentForm	name, email, body, rating	The form used for creating new comments and rating articles
CreateTagForm	name	The form used for creating new article tags
RequestForm	role	The form used for requesting different roles between RUs and admin(s)
ColorForm	color	The form used by admins to change the color of the sites navbar
LayoutForm	layout	The form used to change the layout of a new or existing article

3. Views

Function	Template	Min. role required	Return type	Description
registered_required(user)	None	None	Boolean (Either True or False)	Returns true if user is registered, and otherwise false.

editor_required(user)	None	None	Boolean (Either True or False)	Returns true if user is an editor, and otherwise false.
author_required(user)	None	None	Boolean (Either True or False)	Returns true if user is an author, and otherwise false.
editor_or_author_required(user)	None	None	Boolean (Either True or False)	Returns true if user is an author or editor, and otherwise false.
executive_editor_required(user)	None	None	Boolean (Either True or False)	Returns true if user is an executive editor, and otherwise false.
index(request)	index.html	None	Render function (HttpResponse object)	Returns a HttpResponse containing articles, color_form, color, layout_form and layout.
favorite(request)	favourite_list.html	Registered user	Render function (HttpResponse object)	Returns a HttpResponse containing articles that are favorited by the user.
index_tag(request, tag)	index.html	None	Render function (HttpResponse object)	Returns a HttpResponse containing articles that are tagged with the argument "tag", and a boolean that tells index.html what is rendered so that the correct layout is applied.
editor(request)	editor.html	Editor or author	Render function (HttpResponse object)	Returns a HttpResponse with all articles if user is a editor, else if user is author it returns articles written by the author.

login(request)	login.html	None	Render function (HttpResponse object)	Returns a HttpResponse with the login template.
user(request)	user.html	None	Render function (HttpResponse object)	Returns a HttpResponse with the user template.
register(request)	registration/register.html	None	Render function (HttpResponse object)	Returns a HttpResponse with 'RegistrationForm'.
search(request)	index.html	None	Render function (HttpResponse object)	Returns a HttpResponse with articles containing the search query, which can either be a title or text from article.
post_detail(request, pk)	post_detail.html	None	Render function (HttpResponse object)	Returns a HttpResponse with the article which as pk = id, and its comments, CommentForm, RateCommentForm and ratecomments.
post_new(request)	post.html	Author	Render function (HttpResponse object)	Returns a HttpResponse with the form PostFormNew.
post_edit(request, pk)	post.html	Editor or author	Render function (HttpResponse object)	Returns a HttpResponse with the article which has pk = id, and the form PostFormEdit
browse_tags(request)	browse_tags.html	None	Render function (HttpResponse object)	Returns a HttpResponse with all tags, number of tags, and a the form CreateTagForm
feed(request)	feed.html	Registered user	Render function (HttpResponse	Returns a HttpResponse with

				object)	articles made by authors, or tags, that user has subscribed to.
feed_tag(request, tag)	feed.html	Registered user	Render function (HttpResponse object)		Returns a HttpResponse with articles made by authors, or tags, that user has subscribed to, and updates which tags user has subscribed to.
profile(request, id)	profile.html	None	Render function (HttpResponse object)		Returns a HttpResponse with user, articles written by user and the form RequestForm.
profile_edit(request, id)	edit_profile.html	Registered user	Render function (HttpResponse object)		Returns a HttpResponse with the form EditUserForm if the user is the owner of profile page.
on_user_logged_out(request, **kwargs)	None	None	Messages (Alert)		Returns a message when a user logs out.
analyze(request)	analyze.html	Executive editor	Render function (HttpResponse object)		Returns a HttpResponse with stats about users, articles, tags, ratings, comments, favorites and tags.

4. Template tags and filters

Every paragraph in this chapter is taken from the official Django documentation.[1]

4.1 Built in tags

4.1.1 csrf_token

The CSRF middleware and template tag provides easy-to-use protection against Cross Site Request Forgeries. This type of attack occurs when a malicious website contains a link, a form button or some JavaScript that is intended to perform some action on your website, using the credentials of a logged-in user who visits the malicious site in their browser. A related type of attack, 'login CSRF', where an attacking site tricks a user's browser into logging into a site with someone else's credentials, is also covered.

4.1.2 extends

Signal that this template extends a parent template.

This tag may be used in two ways: {% extends "base" %} (with quotes) uses the literal value "base" as the name of the parent template to extend, or {% extends variable %} uses the value of variable as either the name of the parent template to extend (if it evaluates to a string) or as the parent template itself (if it evaluates to a Template object).

4.1.3 for

Loop over each item in an array.

For example, to display a list of athletes given athlete_list:

```
<ul>
{% for athlete in athlete_list %}
    <li>{{ athlete.name }}</li>
{% endfor %}
</ul>
```

The for loop sets a number of variables available within the loop:

VARIABLE	DESCRIPTION
forloop.counter	The current iteration of the loop (1-indexed)
forloop.counter0	The current iteration of the loop (0-indexed)
forloop.revcounter	The number of iterations from the end of the loop (1-indexed)
forloop.revcounter0	The number of iterations from the end of the loop (0-indexed)
forloop.first	True if this is the first time through the loop
forloop.last	True if this is the last time through the loop

4.1.4 if

Evaluate a variable, and if that variable is "true" (i.e., exists, is not empty, and is not a false boolean value), output the contents of the block:

```
{% if athlete_list %}
    Number of athletes: {{ athlete_list|count }}
{% elif athlete_in_locker_room_list %}
    Athletes should be out of the locker room soon!
{% else %}
    No athletes.
{% endif %}
```

In the above, if athlete_list is not empty, the number of athletes will be displayed by the {{ athlete_list|count }} variable.

The if tag may take one or several `` {% elif %}`` clauses, as well as an {% else %} clause that will be displayed if all previous conditions fail. These clauses are optional.

if tags may use or, and or not to test a number of variables or to negate a given variable:

```
{% if not athlete_list or coach_list %}
    There are no athletes, or there are some coaches.
{% endif %}

{% if athlete_list and not coach_list %}
    There are some athletes and absolutely no coaches.
{% endif %}
```

Comparison operators are also available, and the use of filters is also allowed, for example:

```
{% if articles|length >= 5 %}...{% endif %}
```

Arguments and operators _must_ have a space between them, so {% if 1>2 %} is not a valid if tag.

All supported operators are: or, and, in, not in ==, !=, >, >=, < and <=.

Operator precedence follows Python.

4.2 Filters

4.2.1 floatformat

Display a float to a specified number of decimal places.
If called without an argument, display the floating point number with one decimal place -- but only if there's a decimal place to be displayed:

- num1 = 34.23234
- num2 = 34.00000
- num3 = 34.26000
- {{ num1|floatformat }} displays "34.2"
- {{ num2|floatformat }} displays "34"
- {{ num3|floatformat }} displays "34.3"

If arg is positive, always display exactly arg number of decimal places:
- {{ num1|floatformat:3 }} displays "34.232"
- {{ num2|floatformat:3 }} displays "34.000"
- {{ num3|floatformat:3 }} displays "34.260"

If arg is negative, display arg number of decimal places -- but only if there are places to be displayed:
- {{ num1|floatformat:"-3" }} displays "34.232"
- {{ num2|floatformat:"-3" }} displays "34"
- {{ num3|floatformat:"-3" }} displays "34.260"

If the input float is infinity or NaN, display the string representation of that value.

4.2.2 linebreaksbr

Convert all newlines in a piece of plain text to HTML line breaks (<br>).

4.2.3 truncatewords

Truncate a string after x number of words. Remove newlines within the string.

4.2.4 safe

Mark the value as a string that should not be auto-escaped.

5 Frameworks and plugins

5.1 Bootstrap

For documentation, see:https://getbootstrap.com/docs/4.1/components/ [2]

5.2 DataTables

For documentation, see: https://datatables.net/manual/ [3]

5.3 Pillow

For documentation, see: https://pillow.readthedocs.io/en/5.3.x/handbook/overview.html [4]

6 References

[1]https://docs.djangoproject.com/en/2.1/

[2]https://getbootstrap.com/docs/4.1/components/

[3]https://datatables.net/manual/

[4]https://pillow.readthedocs.io/en/5.3.x/handbook/overview.html