

timezone

What it accomplishes?

Timezone is only used for single purpose with the function `timezone.now()` right here. We use that function to keep track of the unexpired sessions by filtering all the sessions according to time (`Session.objects.filter(expire_date__gte=timezone.now())`) [here](#) but we also use that function to populate the `dateAndTime` field of the object post [here](#).

How does this technology accomplish what it does?

When support for time zones is enabled, Django stores datetime information in UTC in the database, uses time-zone-aware datetime objects internally, and translates them to the end user's time zone in templates and forms. More details about the Django's timezone [here](#).

models

What it accomplishes?

models is used in our website to create Objects such as Profiles or messages in order to create, modify and manipulate information to populate our website and keep track of a database. We use multiple functions from the models class such as `models.OneToOneField`, `models.ForeignKey`, `models.TextField`, `models.BooleanField` ([example](#)) and each one of them represents a different form of data that we are storing thanks to models and then reusing again later.

How does this technology accomplish what it does?

According to the Django official documentation provided [here](#), models A model is the single, definitive source of information about your data. It contains the essential fields and behaviors of the data you're storing. Generally, each model maps to a single database table.

Each model is a Python class that subclasses `django.db.models.Model` and each attribute of the model represents a database field.

With all of this, Django gives us an automatically-generated database-access

render

What it accomplishes?

We provide render with a request, a template name and a context and it generates an HTTP response back for us in a simple and convenient way to create the pages of our website. This link [here](#) is an example of how we use render to create the Register page.

How does this technology accomplish what it does?

According to Django's official documentation found [here](#), render combines a given template with a given context dictionary and returns an HttpResponse object with that rendered text.

redirect

What it accomplishes?

Redirect is generally used to redirect users to the right URL and in the context of our website, we use it redirect users to the login page after they created their account so they can login and start using our website (source code for that example [here](#)), to redirect them back to their profile page after they are done updating the information inside of it (source code for that example [here](#)) or back to the main page after they sent a message (source code for that example [here](#)).

How does this technology accomplish what it does?

Redirect gets provided with an appropriate URL and returns an HttpResponseRedirect to that URL for the arguments passed. More information about it [here](#).

What license(s) or terms of service apply to the technologies mentioned in this report?

The entire application runs on the django framework. The owner of the license of all django libraries is Django Software Foundation as mentioned [here](#). They give the right to use django under many circumstances mentioned in the link provided.

It is mentioned that you can use the libraries within the following conditions of :

- 1) Service Identification
- 2) Django-related software project
- 3) Groups and Events
- 4) Merchandise
- 5) Products and services serving the community
- 6) Other Commercial activity
- 7) Domain Names
- 8) Uses outside of this license
- 9) Community standards
- 10) Interpretation