Django 3 cheatsheet

Builtin model field Types

CharField(max_length=150)	Small Text
TextField(max_length=1000)	Large Text
BooleanField(default=True)	Flags
DateField(auto_now_add=True)	Dates
DateTimeField(auto_now_add=True)	Dates and Times
EmailField()	Email Addresses
URLField()	URLs
IntegerField()	Whole numbers
DecimalField()	Decimal numbers
SlugField()	URL Slugs
<pre>ImageField(upload_to='/path')</pre>	Binary Images
FileField(upload_to='/path')	Binary Files
OneToOneField('OtherModel')	1-1 relations
ForeignKey('OtherModel')	∞-1 relations
ManyToManyField('OtherModel')	∞-∞ relations

Querying data

```
from myapp.models import Planet

Create a new object:
mars = Planet(name="Mars", slug="mars")
mars.save()

Get all objects in the table:
all_planets = Planet.objects.all()

Get a specific instance:
mars = Planet.objects.get(name="Mars")

Filtering data:
Planet.objects.filter(name="Mars")
Planet.objects.filter(galaxy__name="Milky Way")
Planet.objects.filter(size__lt=5000)

Update an object:
mars.description = "A place for Rover"
mars.save()
```

Built-in template tags

```
{% url 'some-url-name' arg1=v1 arg2=v2 %}
{% if people_in_room %}
   You have company!
{% else %}
    The room is empty.
{% endif %}
{% for person in people %}
    {{ person.name }}
{% empty %}
   No people here!.
{% endfor %}
{% extends "base_template.html" %}
{% include "other_template.html" %}
{% block block_name %}Conten...{% endblock %}
{% csrf_token %}
{% static 'images/hi.jpg' %} or
{% get_static_prefix %}/images/hi.jpg
```

Built-in filters

```
{{ value|date:"D d M Y" }} {{ value|time:"H:i" }}

{{ optional|default:"nothing" }}

{{ list|first }} {{ list|last }} {{ list|length }}

{{ value|json_script:"hello-data" }}

{{ words|lower }} {{ words|upper }} {{ words|upper }}

{{ number|pluralize }}

{{ list|slice:":2" }}

{{ words|slugify }}

{{ url|urlencode }}
```

Useful commands

Install Django:

pip install django

Create a project:

django-admin startproject name [dir]

Create an application:

django-admin startapp name [dir]

Create database migrations

django-admin makemigrations

Run database migrations

django-admin migrate

Start development server

django-admin runserver

Useful links

Django homepage:

https://www.djangoproject.com

Deploying Django on Azure:

https://aka.ms/django-azure-quickstart

Django documentation:

https://docs.djangoproject.com/en/stable/



