# Django

This document is developed with the goal of sharing within the team how the Django project was setup in case someone needs/wants to give it a try or modify the django server

## Setup the new project:

1. Install django
2. In terminal create a django project. This will generate automatically all python files required for running the server

create django project django-admin startproject djago\_openedu

1. In terminal, go to folder where django project is saved and create a new app. This will contain the educational material

Django-admin startapp edu\_data

1. Include app in the settings.py, so that is connected to the web server

INSTALLED\_APPS = [  
 'django.contrib.admin',  
 'django.contrib.auth',  
 'django.contrib.contenttypes',  
 'django.contrib.sessions',  
 'django.contrib.messages',  
 'django.contrib.staticfiles',  
 # include any new apps that are created for making the connection to the webpage  
 'edu\_data'  
]

1. Create all new models (tables) in the models.py. Ex:

class Author(models.Model):  
 Name=models.CharField(max\_length=40)  
 Email=models.EmailField(max\_length=40)  
 Phone=models.CharField(max\_length=40, blank=True, null=True)  
 Website\_url=models.URLField(max\_length=300, blank=True, null=True)

1. For migrating the new models and creating them in the DB migrations need to be run. In terminal, go to folder where django project is saved and tun

python manage.py makemigrations

python manage.py migrate

1. To edit the models from the webserver/admin, the models need to be included in the admin page. In admin.py import and include the models. Ex:

from .models import EduMaterial, Author, Publisher, Institution, MediaChannel  
admin.site.register(EduMaterial)

1. For editing the models(tables) from the admin page a superuser need to be created. In terminal, go to folder where django project is saved and tun

python manage.py createsuperuser

1. Views.py control how a webpage is rendered. To this end, the models, containing the data going to be display on the view need to be imported in to views.py. Further, a html template can be used to format how the data is rendered. To show the view, this must be included in the urls.py

## Deploy in Azure

Create an Azure DB and a Web service.