**AcademicsVideo Web Application**

**Application Developer’s Guide**

**AcademicsVideo**

**2017**

**Last Revised: ver 1.3 14.04.2017**

Table of contents:

[Setting up the environment 3](#_Toc479967832)

[Linux 3](#_Toc479967833)

[1. Install python 3](#_Toc479967834)

[2. Install DB PostgreSQL 3](#_Toc479967835)

[3. Install Virtualenv 3](#_Toc479967836)

[4. Install git 3](#_Toc479967837)

[5. Clone repository 3](#_Toc479967838)

[6. Database creation 3](#_Toc479967839)

[Windows 4](#_Toc479967840)

[1. Install python 4](#_Toc479967841)

[2. Install Virtualenv 4](#_Toc479967842)

[3. Install DB PostgreSQL and PostgreAdapter 4](#_Toc479967843)

[4. Install git 4](#_Toc479967844)

[5. Clone repository 4](#_Toc479967845)

[6. Database creation 4](#_Toc479967846)

[Deployment of the app 5](#_Toc479967847)

[1. Create and activate virtual environment 5](#_Toc479967848)

[3. Configure database connection 5](#_Toc479967849)

[4. Create an administrator account 5](#_Toc479967850)

[5. Load all CMS data 6](#_Toc479967851)

[6. Run the server 6](#_Toc479967852)

# Setting up the environment

# Linux

## Install python

Run following commands in terminal:

* sudo apt-get update
* sudo apt-get install python3-pip

## Install DB PostgreSQL

Run following command in terminal:

* sudo apt-get install python3-dev libpq-dev postgresql postgresql-contrib

## Install Virtualenv

Run following command in terminal:

* sudo pip3 install virtualenv

## Install git

Run following command in terminal:

* sudo apt-get install git

## Clone repository

Run following command in terminal:

* git clone <https://github.com/NaGriS/AcademicsVideo.git>

Switch branch to develop, running following command in terminal:

* git checkout origin develop

## Database creation

Run following script in repository directory:

* sudo -u postgres bash Linux/create\_database.sh

# Windows

## Install python

[Download it from Python official site](https://www.python.org/downloads/)

## Install DB PostgreSQL

[Download it from Postgre official site](https://www.postgresql.org/download/)

## Install git

[Download it from Git official site](https://git-scm.com/downloads)

## Clone repository

Run following command in terminal:

* git clone <https://github.com/NaGriS/AcademicsVideo.git>

Switch branch to develop, running following command in terminal:

* git checkout origin develop

## Database creation

Run following bat-file in repository directory:

* Windows/create\_database.bat

# Deployment of the app

## Create and activate virtual environment

Run following command in terminal:

* virtualenv academicsVideo\_env (for Linux)
* {PYTHON PATH} -m venv academicsVideo\_env (for Windows)
* source academicsVideo\_env/bin/activate (for Linux)
* academicsVideo\_env\Scripts\activate (for Windows)

1. Install required packages

Run following command in terminal (in dir with requirements.txt):

* pip install –r requirements.txt

## Configure database connection

Open the configuration file in the text editor settings.py project Django, located in the created child directory /{project\_name}/{site\_name}/settings.py. Find the section DATABASES = {}

. . .

DATABASES = {

'default': {

'ENGINE': 'django.db.backends.postgresql\_psycopg2',

'NAME': 'academicsvideo\_db',

'USER': 'superuser',

'PASSWORD': 'Password',

'HOST': 'localhost',

'PORT': '',

}

}

Save the changes and close the file.

Now Django is fully configured to interact with the database. Run following command to migrate the data to the database and test the server:

* python manage.py makemigrations
* python manage.py migrate

## Create an administrator account

Run following command:

* python manage.py createsuperuser

Specify a name, email address and password:

* “{user\_name}” , {e-mail}, “{password}”

## Load all CMS data

Run following command:

* manage.py loaddata cms\_export

## Run the server

Run following command:

* python manage.py runserver