# Homework: Advanced PHP, Apache, and MySQL Settings

This document defines homework assignments from the [“PHP & MySQL” Course @ Software University](https://softuni.bg/trainings/fasttracks/details/1033). Please submit as homework a single zip / 7z archive holding the solutions (source code) of all below described problems.

## Music.bg

Configure a virtual host **www.music.bg** in the Apache server to point the directory **C:\TEMP\music.bg**:

* Change the "hosts" file to register www.music.bg to be resolved as **127.0.0.1**
* Configure the virtual host
* Configure the directory and enable browsing its files

## Using SSL

Configure SSL in Apache to allow opening <https://www.music.bg>

* Use self-signed certificate created with **OpenSSL**

## Administrative Stuff

Configure the **/admin** directory to require authentication

## Rewriting URLs

Configure **mod\_rewrite** to rewrite requests like <http://www.music.bg/Black%20Lab/That%20night> as <http://www.music.bg/song.php?artist=Black%20Lab&name=That%20Night>

* Create a **song.php** script to display the song name and artist

## Big File Upload

Create an **upload.php** script to allow uploading songs

* Allow only song files (such as .mp3 / .wav / .flac)
* Try to upload a file big enough to prevent PHP from accepting it
* Fix the appropriate settings to allow the file to be uploaded
* Do not submit the big file in the homework archive; submit a text file where you explain for each setting changed in the configuration files:
  + The setting name
  + The old value
  + The new value

## Long-Running Script

Create a script which runs for a long time (say, 1-2 minutes)

* Fix the appropriate settings to allow the execution of the script
* Submit a text file like in the previous problem
* **Hint:** sleep(10) makes the script wait for 10 seconds