

# **Tutorial Management System**

## Technical Documentation

**MSC-CA Sem II**

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## Abstract

This guide explains the basic steps to be taken for the installation of Document Management System. It explains the procedure to be followed before the installation, during installation and after the installation.

# 1 System Requirements

Installation of: **Document Management System(DMS)**. Certain requirements must be fulfilled by the web server:

- **Disk Space** - A minimum installation requires 10 Megabytes. Required size however may increase, if we plan to manage many documents. Also, size will increase if there are too many images of documents.
- **Web Server** - Apache WebServer is required for the system to run successfully.
- **Database** - MySQL Server version 5.5.34 or higher.
- **PHP** - PHP version 5.4.9 or higher.

# 2 Creating Database

A database should be present when we want to run the Content Management System. If the database is not present, you will have to create one in Mysql. The system will take user input for database name, username, password, host and table prefix, and accordingly create the tables that are required for the Content Management System to run.

However, as mentioned previously the database will have to be created by the user.

- Login to mysql:
  - `mysql -u username -p`
- Create a new database (only if database is not present). Here, we will use tutorial as the database name:
  - `create database tutorial;`
- Give appropriate permissions to the user for the created database:
  - `grant all privileges on tutorial.* to aaron@localhost identified by 'knightmare';`
- If successful, MySQL will reply with:
  - `Query OK, 0 rows affected`
- Now exit the MYSQL prompt by typing:
  - `exit`

### 3 Installing Tutorial Management System

- Uncompress the tutorial.zip archive.
- Copy the mycms directory from the uncompressed archive, into the document root configured in your Apache installation.
- Change the permissions of the mycms/.private directory to read and write. (eg. `chmod 777 mycms/.private` on a Linux machine)
- Open your web browser and run the install script called install.php present in the root directory of the CMS, using your configured host name. (eg. `http://localhost/mycms/install.php`)
- Provide the appropriate database details when prompted.
- Choose a username and password for site maintenance. The CMS should install successfully given all valid values, and you will get a message saying that the CMS has been installed successfully.
- The database details will be stored in mycms/.private/config.php. Therefore, these details can be changed at any later stage.
- Change the permissions of the mycms/.private directory back to read only. (eg. `chmod 555 mycms/.private` on a Linux machine)
- Change the permissions of the mycms/cms.multimedia directory to read and write. (eg. `chmod 775 mycms/cms.multimedia` on a Linux machine)

### 4 Directory Structure

- .private contains the config file that stores the database details.
- cms.admin contains the admin files required for site maintenance.
- cms.incs contains the library functions commonly used.
- cms.multimedia contains all the uploaded pictures, videos, files.
- cms.user contains all the core CMS files.
- common contains all the javascript, css and some images.

### 5 Main Table Structure

- author table contains every author's personal information.
- chats table contains all conversations between users.
- comment table holds the comments for tutorials.
- login table contains basic login information, like username and password.
- role table holds all the different roles defined in the CMS.

- site\_info table contains basic site information, like sitename, logo, etc.
- tutorial table contains the details of the tutorial.
- validator table contains official information about the validator.

## 6 Post Successful Installation

- Now you can browse to the website through web-browser using your host (e.g `localhost/mycms/`)
- The default user is considered the admin, and has all permissions.
- Admin can further add, view, delete, tutorials, users, validators and edit site information like name, logo, etc.