



Image Gallery Web Application Documentation

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About

A sample image gallery web application that would allow users to upload images and render images on the page. However these are the requirements:

- Allow users to upload a PNG, JPG, or GIF image with a caption (user can be permitted to leave caption blank)
- Visitors to the site can view uploaded images, 10 per page (use next/ back links or buttons to bring them to the next 10 pictures), sorted by most recent
- (Development phase, should be complete by 4-Mar-17) allow users to sign up for an account which will allow them to edit their picture captions and delete their uploaded photos.

Installation

This application was created using Python 3.0 and MongoDB. Please follow the steps below before you can run the application

- Python 3.0
 - Linux: Open terminal and type
 - `sudo apt-get install python3` or
 - `sudo pip3 install python3`
 - Windows: Go to <https://www.python.org/downloads/> and download the latest python version. Beware to download python version 3 and not 2! You will need to set environment variables before you could run the app(easier approach) Step by step instruction on this can be found in <https://docs.python.org/3/using/windows.html>
- MongoDB - <https://www.mongodb.com/community>
 - Linux(Ubuntu 16.04): Open terminal terminal and type
 - `sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv 0C49F3730359A14518585931BC711F9BA15703C6`
 - `echo "deb [arch=amd64,arm64]
http://repo.mongodb.org/apt/ubuntu xenial/mongodb-org/3.4 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-3.4.list`
 - `sudo apt-get update`
 - `sudo apt-get install -y mongodb-org`
 - You can type `mongo` in the terminal to see if the DB is working or not. If not please follow through the following steps

https://docs.mongodb.com/master/tutorial/install-mongodb-on-ubuntu/?_ga=1.127900612.879887207.1486065297

- Windows Installation: Windows installation needs extra attention while installation. Please go through the link for instructions on windows

https://docs.mongodb.com/master/tutorial/install-mongodb-on-ubuntu/?_ga=1.69098328.879887207.1486065297

- OSX installation: Mac OSX installation steps can also be found in the link below

https://docs.mongodb.com/master/tutorial/install-mongodb-on-os-x/?_ga=1.94869589.879887207.1486065297

Additional Libraries required to run the Application

- Flask
 - Linux: `sudo pip3 install flask`
 - Windows: You would first need to get the pip installed and then go on with installation of flask.

Installation instruction can be found in the link below

<http://flask.pocoo.org/docs/0.12/installation/>

- Pymongo: detailed installation steps can be found in the link below:

<http://api.mongodb.com/python/current/installation.html>



Running the Application

Steps to run the application.

1. Unzip the application in any folder
2. Go into src folder
3. Run the MongoDB using the terminal i.e. by typing `sudo mongo`
4. Type `python3 app.py`, it would open the server and the port, which would be shown in the terminal window
5. Open the browser and type in the address that is shown in the terminal