

Deliverable CAD Assignment 1

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Functionality:

Application allows to upload a picture and set a name for it. The pictures can be viewed in a gallery, which shows the image and the name of each picture stored.

Design:

Web-Framework: [Express.js](#) (Based on Node.js)

Template engine: [EJS](#)

File upload middleware: [multer](#)

Database: [MongoDB](#)

Server Configuration:

1. Select Ubuntu 18.04 as image
2. Establish SSH connection and login with **ubuntu**
3. Replace XXXX with the authtoken from ngrok dashboard in `startup.sh`
4. Send `script.sh` to machine. If using PuTTY,

```
pscp C:\path\to\script.txt ubuntu@IPofVirtualMachine:/home/ubuntu/script.sh
```

1. In the virtual machine, use this for fixing character encoding between Windows and Linux

```
sed -i -e 's/\r$//' script.sh
```

1. `./script.sh` and copy localhost **http** parsing from ngrok with CTRL + Shift + C and paste in preferred browser
2. `script.sh` installs node, mongo. Clones git and startup application and database

Screenshots of running Application

1.) Upload form

View

Upload

Select a file: Download.jpg

Select a name:

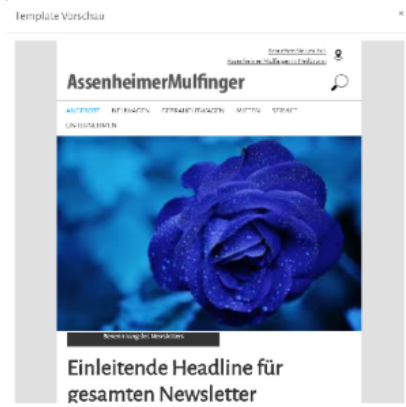
2.) View uploaded images

View

Upload



MyExampleImage



Another example

Virtual Server configuration

Image: Ubuntu 18.04

Specs: m1.large (RAM 8GB, 12GB Storage, 4 VCPUS) [Works with any BWCloud variant]

Ports: 3000, 27017