

DAM Course Project

2017

2017-09-27

2017-10-09

Goal

- Build a **simple** but **useful** DAM system (more than CMS)
 - determine your application
 - design data model
 - provide services
 - the front-end can be run on mobile device (H5 web or App)
 - in a Raspberry PI board

An application

- 3 choices:
 - Home Multimedia (Management) Center
 - Personnel Deployment and Management
 - Online Registration System

Home Multimedia (Management) Center

- 结合课程项目要求，构建基于家庭场景的媒体资源管理平台

Personnel Deployment and Management

- For ZJU
 - 每个拟入学学生的信息
 - 原报名单位
 - 调剂到新的报名单位
 - 多媒体资料管理

Online Registration System

- For ZJU
 - 很多学生来浙大参加暑期夏令营实习
 - 来报名的学生
 - 提项目的教授
 - 学院研究生科的老师

Data Model

- Database: **SQLite (MySQL)**
- Just use designed folder structure in a file system

Requirements

- The client side of your system must be **web-browser (B/S architecture)**
 - **or with a front-end of mobile app**
- The server side could be in:
 - **Linux (ubuntu, raspberry pi)**
 - **Windows 7/XP**
- The web page must be in **HTML 5**
- **python or Node.JS (recommended)**

资源管理小系统[共40分]

- 必选（25分）：
 - 创意与设计 [满分10分]
 - 简单内容管理 [满分5分]
 - 用户管理 [满分5分]
 - 内容检索 [满分5分]
- 可选项（15分）

资源管理小系统[共40分]

- 可选项，必须至少完成一项 [满分15分]，多完成一项加5分，总分加满100分为止
 - DRM，数字版权管理
 - 数字水印
 - 统一格式与媒体格式转换
 - 数据的版本管理
 - 内容计费与设计

资源管理小系统[共40分]

- 附加分，总分加满100分为止
 - 流程管理 [满分5分]
 - 云存储 [满分5分]
 - 能够打通aliyun oss 或者baidu云盘
 - 我没有想到的其他有价值功能 [满分5分]

Organization

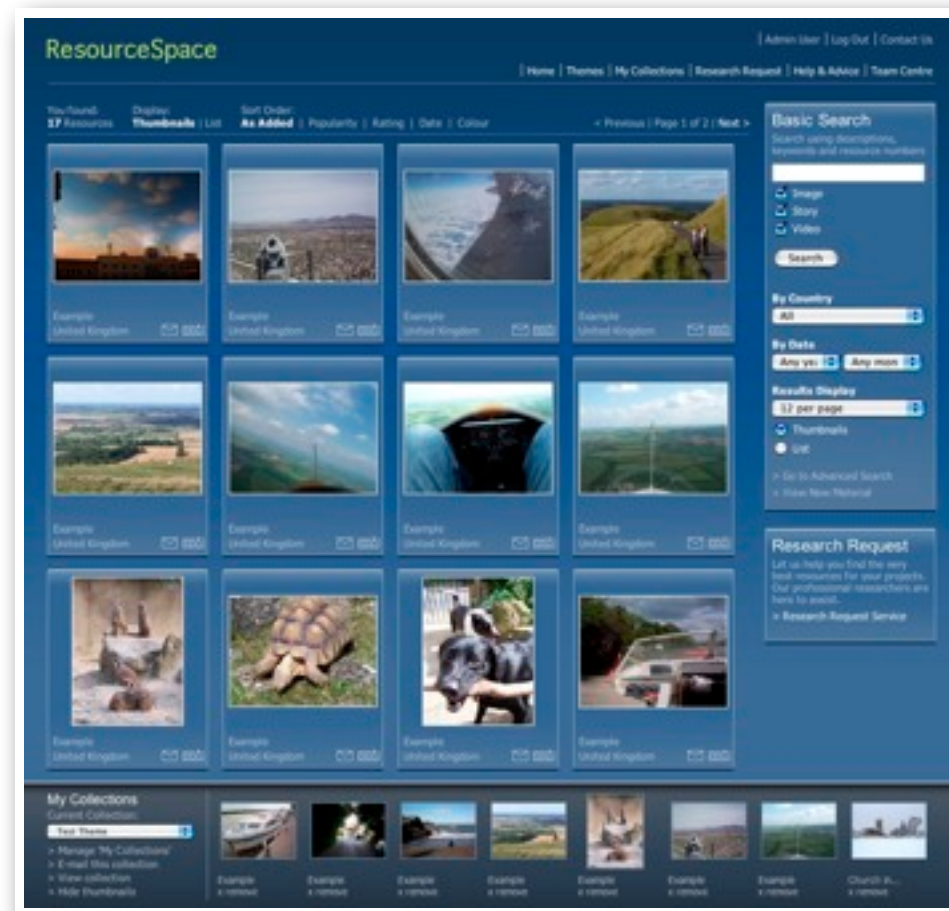
- One project team with 4~5 people
 - 1 leader (designer or architecture)
 - 1~2 programmer
 - 1~2 testing
 - 1~2 content management

Hand out

- **5** min presentation
- **3** documents on
 - design (1~2 pages)
 - key techniques (1~pages)
 - testing report / user menu (1~2 pages)
- **1** run-able system (with demo video)
 - please hand out **code** as well

Reference

- Resourcespace: open source DAM
<http://www.montala.net/resourcespace.php>



Reference

- <http://www.razuna.com/>
- Content Management System
- CMS + PHP
- <http://www.php-open.com/9.htm>

Reference

- Flask
- Jinja 2
- Werkzeug
- modwsgi

The life cycle of your project

Stage 1: idea, organize and design

Stage 2: implementation

Stage 3: maintaining and enhancement

Help and Support from www.aliyun.com

1. Online fundamental services:
VM, HTTPD, DB, cloud storage
2. Technique support
3. Small Award / gift for winner
phone, VM or pad?

This is a TRUE competition!



reddot design award

Important date

- Organization: 2017-10-18
 - 1 minute representation for main idea
- Project representation: 2017-11-xx
 - the 16-th (last) lesson,
5~10 minute demo
- Final hand out: 2017-11-xx + 10 days