Online Teacher Training ToolRequirements Document

# 1. Introduction

## 1.1 Overview

The goal of this project is to updating an Online Teacher Training Tool Website. The old website is off-line right now, and it is used for training and evaluating teachers’ teaching skill. Since the old website hasn’t been run for a long time. The first problem is trying to run this old project. If we can’t run it properly (hopefully not), we should consider building our new version of website to meet sponsor’s requirements.

## 1.2 Scope of the Product

This is a website development project. When the project completed, it should run on a server. Users can access the website by using a web browser (like chrome). The product is basically a video website with same special requirements with education purposes.

## 1.3 Business Case for the Product

This product is not designed for commercial use. It is used to improve University teachers’ teaching skill. So, University teachers will be directly benefited from the Online Teacher Training Tool product, especially the new and inexperienced teachers. Also, students in UB will have better learning experience due to the improvement of their teachers’ teaching skills. Thus, this product is very useful and meaningful.

# 2. General Description

## 2.1 Product Perspective

Our team chosen to develop this project because we think it is meaningful. The product will provide a platform for teachers to share their teaching experience and get feedback from their peers. So far, Dr. Olewnik and Dr. Yerrick are in charge for the product development. After completed the product, the whole UB community could benefit from it.

## 2.2 Product Functions

The Online Teacher Training tool is design for university teachers. It includes many lecture videos now. User can search specific videos by meta tag and user should be able to upload their own lecture video to the website. More importantly, users can rate teaching skill of the teacher in the video in many aspects, so that the teacher in the video could know what kind of ability he or she should improve. Also, after knowing feedback from peers, user can search among high-rated lecture video to learn and to see how other teachers do in their class. Some in-build tools can be used to summary the ratings from difference user to the same videos.

## 2.3 User Characteristics

The aimed users for our finished product are precisely targeted – the teachers from University at Buffalo. Apparently, all of our users are well educated. Because the purpose of this product is to share, rate and get evaluation and suggestion from peers, it might need users pay more attention on the videos and rating action. So, they need be more patient than other usual video website users.

## 2.4 General Constraints

We have got the Mac Mini and hard disk from Dr. Yerrick. It would be nice if we can find the old recourse code and continue working on it. Until now our team don’t know what technique the project is using. We can work on that once we find the source code. Also Dr. Olewnik and Dr. Yerrick have gave us much freedom, they allow us to update this project by using our familiar framework (if we cannot run the old one).

## 2.5 Assumptions and Dependencies

A server is needed when the project finished. The completed product should run on a server so that every user can access the website by a web browser. Also, we should assumption the original project can be run properly. Otherwise we have to start build our own version website for this project (it might happen since the original project has been suspended for a long time).

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# 3. Specific Requirements

## 3.1 User Requirements

There should be two kind of user to use the system: the general user and the administer user.

The general users should be the University teachers, they should be able to:

* + - 1. Register an account and login into the website.
      2. Search for lecture videos uploaded by other users based on meta tags.
      3. Watch videos which interest them.
      4. Evaluate the video based on specific rubric. The rating for a video is concerned with many aspects and based on time. For example, an evaluation could be like the score for “linking the new concepts with the previous knowledges” is 8 from the beginning to 2 minute, and from 2 minute to the end, the score for that aspect is 6. The rating of an aspect of teaching skill could vary as the lecture goes. And the rating can show a lot of attributes of teaching skills.
      5. Watch videos’ reports which generated by user’s evaluation.
      6. Upload their own lecture videos and get feedback from peers.

For the administer users, they should be able to:

Set new rating rubrics for evaluating lecture videos. For example, if suddenly, the website manager wants to add “community skill” as a rating attribute, the web should provide a way to do so. After adding this attribute, other user can rate on the “community skill” aspect of the video.

Delete the irrelevant videos uploaded by general users.

## 3.2 System Requirements

The system should be able to:

1. Distinguish the general user and administer user by their account.
2. Receive and store videos uploaded by users.
3. Automatically generate report after one user evaluating one lecture video. As mentioned above, the rating for a video is based on time -- could vary as the lecture goes. The old project can not general the report properly. It only generates first 20 minutes’ score for every video. If the video is 30 minutes long, it will lose the last 10 minutes’ score result. We need to fix this problem for the system, so the result of a video rating can be show properly, no matter how long the video is.
4. Compare different reports regarding the same video. Because different user may have different rating score for a video, it would be nice if we have this tool to see how accordant of people’s views for the same video.
5. The original website’s UI is outmoded, that may harm user’s patient when they using this project, so the system should provide more user-friendly UI for all the users.

## 3.3 Interface Requirements

We haven’t run the old product right now because we need find the resource code in the apple Mini. From Dr. Olewnik’s presentation, we know many needed interfaces has been completed by the old product. The new interface we need to add is uploading video page. At this interface, user can choose video on their computer and uploaded to the database. If the video is properly uploaded, the user should be taken to a page which tell them the information of successfully uploaded. If the video isn’t uploaded successfully, the user still need to be taken into a page to tell them the information.

# 4. Appendices

To be update (because we haven’t found the old source code and documents in the Mac mini, once after meeting with our sponsor and running the system, we can update this part.)