

# SE31520/CHM5820 Assignment 1 2016-17

## Part 1

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Hand-out date: Tuesday 18th October 2016

Hand-in date: Monday 31st October 2016

Feedback date: Monday 21st November 2016

10% of Assignment 1

This first part of the assignment will prepare you for Part 2 of the assignment. Part 2 will be handed out on Tuesday 1<sup>st</sup> November. It will focus on extending the CSA application.

### Task

Your task is to complete the Weblog Rails application started in the workshops<sup>1</sup> by adding several features described for the CSA application. Please add pagination and tabbing to the Weblog application. Have a Home tab with some sample text, a Posts tab that lists all the user posts and a Users tab that lists all the users. You are not required to add any extra features. The URL <http://localhost:3000> should be set to display the Home tab page.

Write a 500 word report (about one A4 pages of text, but more if there are diagrams) that summarises the architecture of the Weblog application. Describe how the MVC design pattern (actually it is the Model 2 variant) is represented, by describing key files that represent each part of the application. Include and modify my UML architectural diagram that can be found at the end of the requirements slides in Workshop 3.

Produce a one-minute screencast with a voice over showing the application running: that the Home tab is the first tab selected for <http://localhost:3000>, creating users and posts and linking posts with users via an email and showing the database changes. There are many free screen-casting tools out there, e.g. for Linux see Kazam. CamStudio is another possibility. I will cope with most formats.

### Learning outcomes

By undertaking this assignment you will:

- Demonstrate that you know the basic structure of a Rails application and how it relates to MVC.
- Demonstrate that you have Rails running and are able to understand enough about the CSA application to be able to reuse some of its code in the Weblog application.
- Demonstrate that you are able to produce a UML diagram(s) during the design process and then translate this (these) into code.
- Demonstrate the effective use of screen casting software.

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<sup>1</sup> A solution is provided on Blackboard for that exercise in Workshop 4.

## Submission Date and Instructions

You must submit the Weblog Rails project and the documentation and screen cast as a single .zip file (nothing else please! no .rars, .tars, .gzs etc.). **If I cannot read your files your project will not be marked.**

Your solution to this assignment must be uploaded to Blackboard by Monday 31st October 2016 4pm. You will be able to submit as a late submission after this deadline. If you have a problem with upload to Blackboard then email the zipped assignment to [cwl@aber.ac.uk](mailto:cwl@aber.ac.uk) (or a link to Dropbox or similar if the file is too large to email).

**Note:** this is an “individual” assignment and must be completed as a one-person effort by the student submitting the work. This assignment is **not** marked anonymously.

By submitting your work to Blackboard, you agree to the statement about the Declaration of Originality: as shown on the Blackboard assignment link.

## Mark breakdown

Assessment will be based on the assessment criteria described in [Appendix AA](#) of the [Student Handbook](#). However, the following table gives you some indication of the weights associated with individual parts of the assignment. This will help you judge how much time to spend on each part. Note that it should be possible to get close to 100% for Part 1 of the assignment if all the instructions are followed; this goes against Appendix AA slightly where you are normally required to go *above and beyond* to get 80%-100%. I am not expecting you to spend more than 8 hours on this.

Screencast showing the running Weblog application running.	Does the screencast, with voice over, show the Weblog running as specified above?	20%
Report	Quality of the documentation. Are all key areas of the application covered and related to MVC? Quality of the UML architectural class diagram.	30%
Implementation	The functions as specified run correctly.	50%