

# Cloud Computing Assignment

## Problem Scenario

The task at hand is the development of a collaborative platform for archival and sharing of class notes and student coursework.

The platform should allow handling of:

- Teacher accounts;
- Groups of two/three students;
- A repository of documents;
- Appropriate measures against data loss;
- A document versioning strategy.

The documents may be stored in source format (LaTeX, docx) or in PDF.

The collaboration site shall be implemented on the Amazon AWS platform.

It is suggested to use the DRUPAL software, [www.drupal.org](http://www.drupal.org), for the deployment of the website. A tutorial on installing DRUPAL is available at <https://www.tecmint.com/install-drupal-in-centos-rhel-fedora/>. Two **important** additional install instructions.

- At the very start, edit the file `/etc/selinux/config` so that `SELINUX=disabled`.
- After drupal has started up and you have edited `/etc/httpd/conf/httpd.conf`, run the command `systemctl restart httpd`.

Using Drupal is *not mandatory*: you may implement the system using any tools you feel comfortable with.

You will have to turn in:

1. A report containing a description of the approach taken, the design of the solution, some examples of use, and a project and test plan;
2. The source code;
3. The web site operational and available for testing.

You will ensure that the website is operational for two days after the submission deadline and made available for testing by the module leader as part of the marking process; as part of the submission process you will send the module leader the necessary information to connect to the application, including creation of an account where appropriate. *You shall turn off the AMI instance hosting the application at other times whenever you are not working on it.* You will be informed after testing is done, at which point you will be able to stop the AMI instance. At a later time you will also be informed that the marking/course administration is completed, at which point you will be able to terminate the AMI instance. You will also be notified when your AWS account will eventually be unlinked from the main Cranfield AWS account.

**Very important:** Do not use the Amazon RDS service. Whilst it is a perfectly sensible solution from a purely technical point of view, it has a high cost that is not justified in the context of a simple assignment exercise, and it would consume your AWS Educate credits in a very short time.

## **Marking Scheme**

**30** Software & website;

**35** Report document;

**20** Design specification & project plan;

**15** Test plan;

**Submission deadline: 09:30 am, February 4th, 2019**

**Website and application to be available from submission time until 6:00pm, February 6th, 2019**

**Submission deadline for Part Time Students: 09:30 am, February 18th, 2019**