Deadline: Demos ready for W12 immediately after the Easter break.

Technologies: MEAN Stack and 100% cloud deployment of running example.

Marks: 30%

Overview:

Using the MEAN stack produce a Content Management System + Application for a Moodle type Application.

Note, you are not writing a full-blown Moodle system, concentrate on the key requirements.

However, you need to use the concept of Moodle for ideas from the view point of all users.

Your application via the CMS side should allow a lecturer to create various types of courses to deliver to learners. Moodle allows teachers to configure text, html, pdf, files, etc. for presentation to the learner.

We are not interested in any of the more complicated assessment features.

An issue with Moodle is that the delivery of similar type courses/modules with overlapping content requires the lecturer to configure each module's content from a blank sheet.

There is an import feature to initially grab content and items from another module and then the content can be moved around in a module, but unfortunately it may merge to the wrong area when imported in the sense that the lecturer has to tidy up the import.

The moving around can be difficult for large sections/topics.

Your s/w CMS should allow for hidden virtual courses/content that are not delivered but act as a staging area for content/assets to be dropped into one or more courses as required either as full or partial content etc. with the ability to maintain the link to the original content and see new items when added, or break the link to make the new content separate or partial options on this.

Even though you are using NOSQL to persist the data we are describing a form of normalization (when needed) for the virtual content.

Your effort will need good functionality from the user's viewpoint, i.e. make tasks easy/intuitive to carry out in the CMS.