COM644 Full Stack Web and App Development

Assignment 2

"Individual MEAN Application Development"

In the course of the module, we construct a sample full stack MEAN application built around a database containing information on a range of businesses and a collection of user reviews. This assignment tests your understanding of this material by having you build your own MEAN application, based around a data set of your choice. You can obtain your data set from any source, but you should modify its structure (if required) to provide the most appropriate "fit" for your functionality.

Your application can be in any field, but must be driven by a back-end database and must provide opportunities to demonstrate all of the main database operations (store, retrieve, modify, delete).

The primary focus should be on **usability** and **functionality**. The application should fulfil a well-defined need and should provide a quality user experience.

Note: You may include a short document describing the main features of your application, although this will carry no marks.

Marking

Submissions will be marked according to the following criteria

- Database structure and appropriateness to the application
- Range and complexity of database queries
- Appropriateness of routing mechanism
- Implementation of middleware
- Provision of API endpoints (implementation of controllers)
- Usability and appropriateness of front-end
- Code structure and presentation
- Extension of functionality from the *WeMeanBusiness* example provided in class

This assignment is worth **75%** of the total mark for the module

Feedback

Individual feedback will be provided in written form for all submissions under the categories presented above.

Submission

The deadline for submission is **Friday 12th April 2019**. All work should be uploaded to Blackboard as a Zip archive.

Note: Please delete the **node_modules** folders from your application before uploading – but ensure that your **package.json** files contain all instructions needed to re-build the application.

Targets

You should be able to judge the level of your submission by reference to the following criteria.

Note: The *WeMeanBusiness* example referred to here, relates to the state of the application at the end of **Practical C6**

1st Class (70%+)	The application will be fit-for-purpose and usable for the intended task. Functionality will be in excess of that demonstrated by the *WeMeanBusiness* example. The application will provide realistic examples of the CRUD database operations, and will be free from bugs.
2:1 (60-69%)	The application will have a level of functionality similar to that of the *WeMeanBusiness* example, but will be in a different application area with a different data set. There may be minor usability issues or functionality deficiencies that prevent is from being truly fit for the intended purpose. The application should be free from major bugs that prevent elements of functionality from running properly.
2:2 (50-59%)	The application will be similar to the *WeMeanBusiness* example in terms of working functionality and data structure, but will suffer from bugs or performance issues that prevent it from being a usable application. There will be at least some evidence that the developer has attempted to extend the basic functionality. The application may have significant usability issues.
3rd (40-49%)	The application will be heavily influenced by the *WeMeanBusiness* example, with extended re-use of code without modification. There will have been no visible attempt to enhance the functionality and there may be significant bugs that prevent it from working properly.
Fail (<40%)	The application will suffer from major bugs that prevent it from being properly examined. There will have been no attempt to enhance functionality from the *WeMeanBusiness* example