

UNIVERSITY OF THE WEST INDIES  
Department of Computing  
**COMP3161** – Database Management Systems (Semester II, 2014)  
Lecturer: Mr. Kevin Miller  
**Assignment II – Final**

**This part of the assignment consists of two parts:**

The **first part** will be a document that will consist of the ER Diagram that was chosen as the best for the implementation of the application, the tables before normalization, the list of functional dependencies and the set of normalized tables. You should clearly indicate which keys are to be used as the primary keys. Your normalized tables should be in at least 3NF, and where possible BCNF. You should also include a data dictionary, describing the intended meaning of the various tables and attribute names used in the tables.

The **second part** will be the application. The choice of front end is up to you. The requirements for the application are as follows:

1. You should ensure that **all** the basic requirements from Assignment 1 are done.
2. You must use at least 2 stored procedures in your queries.
3. You should provide the SQL file used to create and populate your tables. Attach this file to the document created in the first part of this assignment.
4. You should provide an admin interface that can at least get a report of all users and their friends along with their associated posts and comments.
5. Ensure that you have enough records in your database to facilitate testing of the requirements.

**NB:** *Useful additional features will be awarded with extra marks.*

*You should be ready to demo your application on any of the following days:*

*Tuesday, April 15<sup>th</sup> from 2pm – 3 pm*

*Wednesday, April 16<sup>th</sup> from 2pm – 4pm.*

*Just before your demo, you will have to submit the document for the first part of this assignment. This is needed to grade the demo. Therefore, your demo cannot be graded if you do not submit this part on the day of your demo.*

*Each assignment should clearly contain the ID number and name of each student in the group.*

*You should work in groups of five (5).*

**\*\* END \*\***