**Lab Assignment #2 – Developing an Express application with data access capabilities**

Due Date: Week 6.

Purpose: The purpose of this homework is to:

* Become familiar with **MongoDB and NoSQL databases**
* Become familiar with **Mongoose**
* Develop a **Node** Web Application using **Express** and **MongoDB**

References: Read the textbook, lecture slides, and class examples. This material provides the necessary information that you need to complete the exercises.

Be sure to read the following general instructions carefully:

- - Entry point/main file of your assignment must be app.js

-Zip the files including package.json (excluding node\_module folder) into Yourfullname\_COMP308Lab2.zip

- You **MUST** demonstrate your solution in a scheduled lab session, and submit the project using the assignment link on Dropbox.

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**Exercise 1**

This exercise **extends Lab Assignment 1 exercise by adding database access**.

Create an Express Web Application which allows the customers to provide feedback for the services offered by your company. Your MongoDB database should have a collection ***customers*** to store **customer information** and customer **feedback**. You will have to provide a **login page** (ejs page) to allow the customers to login, a **sign up page** (ejs page), a **feedback page** (ejs) to allow the customers to enter the feedback, a **view customer feedback** page (ejs), and the **Thank You page** (ejs).

The **sign up page** should allow the customer to sign up by providing *first name*, *last name*, *email*, *password, and two other fields* that will be different for each student. For example, you may create fields for *favorite subject*, *number of languages*, *major*, *favorite sport*, *favorite team*, *favorite act*or, *favorite food*, *strongest technical skill*, etc.



Figure 1. Sign Up page (ejs)

The login form should accept the user name (user’s *email* address) and *password*.



Figure 2. Login page (ejs)

Then it will use **MongoDB** and **Mongoose** methods to **find the user in the data store**. After finding the user, the application should display the feedback page and automatically **populate the** *first name*, *last name*, *email and two additional fields* as described above. Your application should **store customer feedback when the user clicks on submit button**. Then, a **Thank You form should display the customer name and comments** and thank the customer for providing the feedback.

The **view customer feedback** page should allow an admin person to view the feedback for each customer given the email address (user name).

Apply **MVC principles**. Design nice and friendly web pages.



Figure 3. Feedback form

**Evaluation:**

* **Option-1: Use sample code from the class and add to it - Max marks: 80**
* **Option-2: Develop your own code from scratch with ideas from class samples: Max marks: 100**

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| **Functionality:** |  |
| UI views (index.ejs, signup.ejs, feedback.ejs, viewcustomerfeedback, thankyou.ejs) | 10% |
| Correct routing code | 15% |
| Correct controllers code | 20% |
| Correct models code and MongoDB database | 25% |
| Correct implementation of MVC architecture | 10% |
| Correct server.js, express.js, mongoose.js and config.js files | 10% |
| **Friendliness** | 10% |
| **Total** | **100%** |