Course:	**INFO3144**
Professor:	**Jim Cooper**
Project:	**Project #2 – Customer Maintenance Page – Node.js**
Due Date:	**Thursday, December 10, 2020**
Submitting:	**Please see the last page for instructions.**

How will my project be marked?

- This project counts for 15% of your final grade and will be evaluated using the following grid:

Marks Available	What are the Marks Awarded For?	Mark Assigned
3	Good coding style including proper indentation and use of variable and object naming conventions and suitable comments	
5	Display form html page correctly and with good styling	
5	Node.js server code creates the web server and handles the initial get request to return the index.html page on localhost:3000	
5	Node.js server code handles correctly all CRUD database transactions	
2	Proper submission	
20	Total	

Project Description

Use Visual Studio 2019 to create a node.js server application called Customers with a server page named server.js and a client page named index.html. The purpose of this kind of application would be to:

1. Allow users to maintain customer data using a web page where maintenance means the ability to add new customers, update existing customer data, delete customers and find a specific customer by customer number (CRUD).

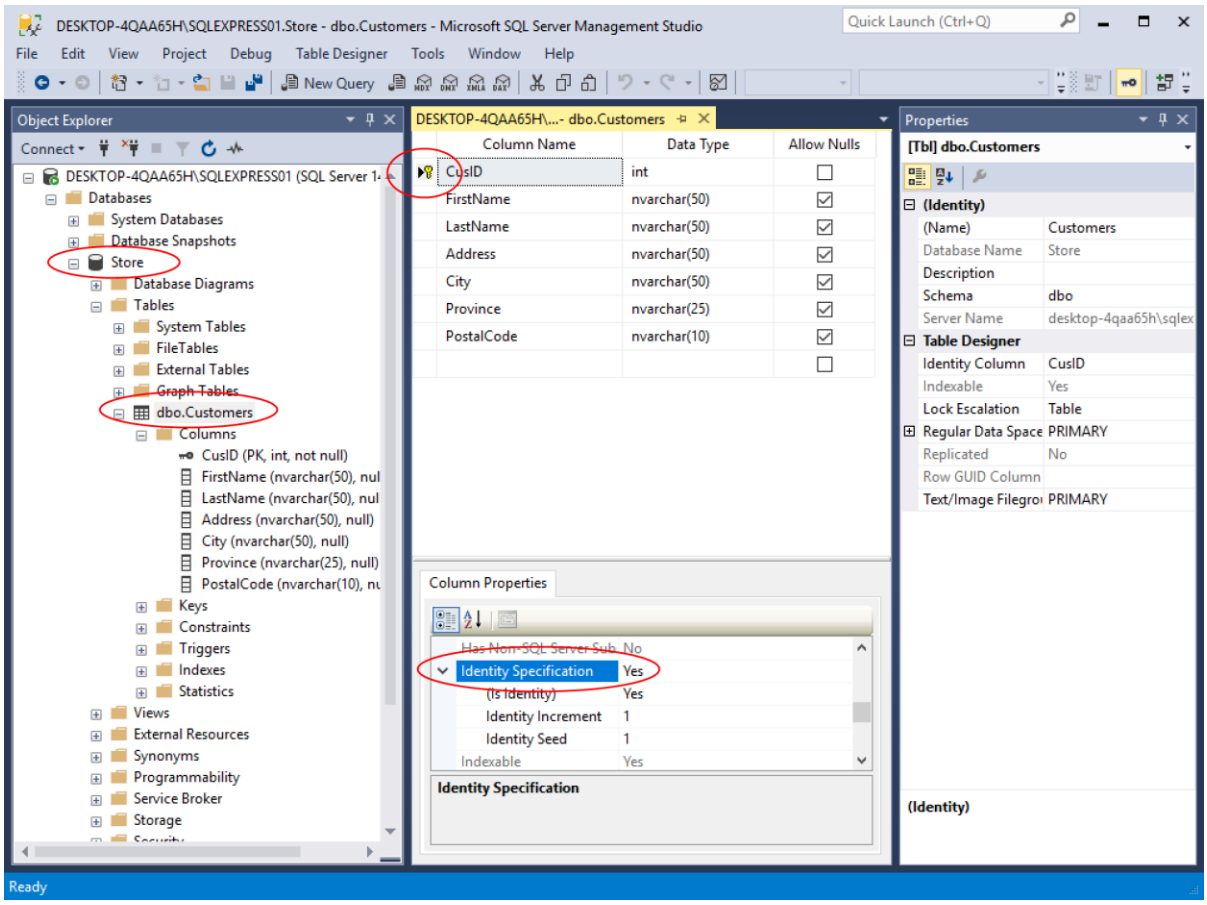
2. From a design perspective, this is exactly the functionality you achieved with the Customers.aspx page in the ASP.NET course (INFO-3091) from term two.

3. What's different with this project is that the server code will be done using node.js, using JavaScript and the client web page will be an html page rather than an aspx page.

4. You'll need to use AJAX to issue post requests (with responses) between the html page and the node.js server.

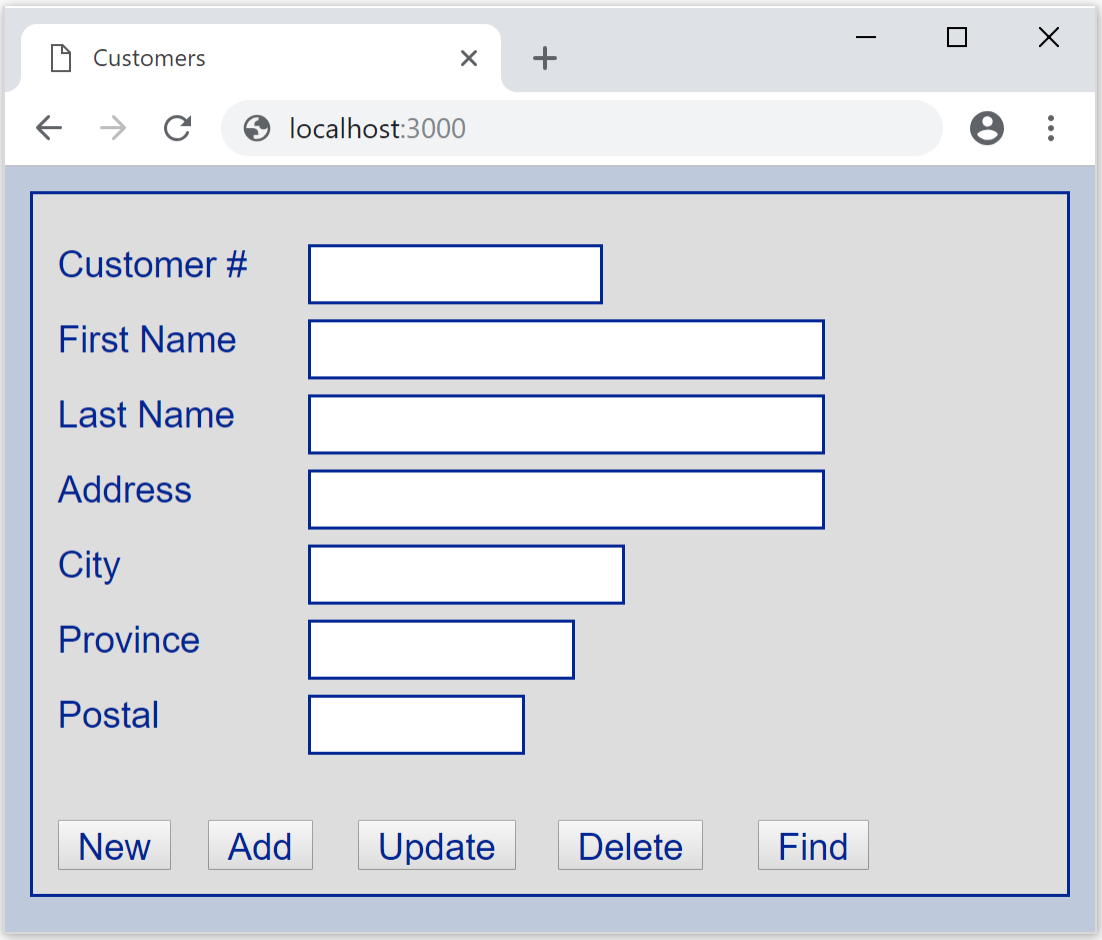
5. For help with this, see the NodeAJAX example and also the NodeSQLInsert example, specifically for help with accessing your SQL Server database.

6. We'll use the Store database with the Customers table as follows for this project:



7. While it's not a requirement for this project, it is recommended that you use jQuery to manage the client-side post requests and response call backs. See the NodeAJAX solution available on FOL for an example of how to use jQuery AJAX with node.js.

8. The UI for your index.html page should be designed to have the following functions although you can use different styling.

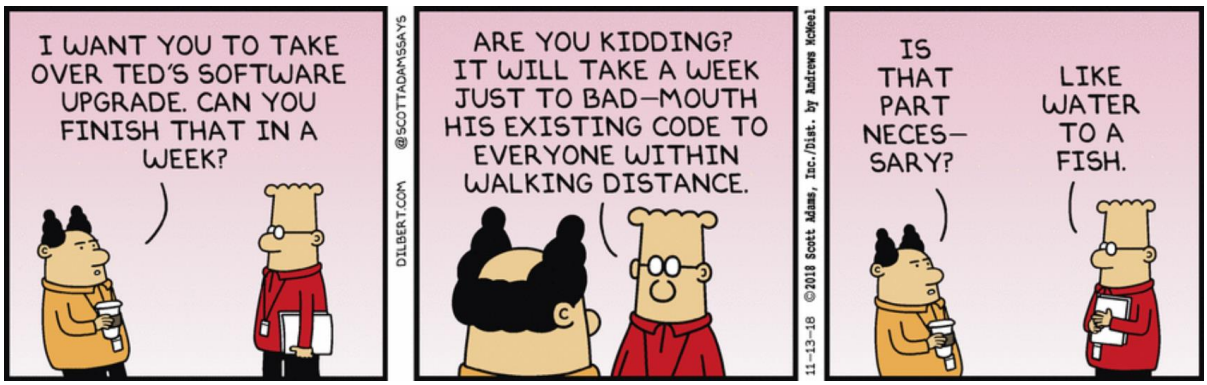


Notes:

Since all of our node.js examples have been developed using Visual Studio 2019, it's recommended that you use this development framework to complete the project.

Please note that using Visual Studio is not a project requirement; i.e. you can use a different development platform if you like however, since the grading will be done using SQL Server with a "Store" database, you must build your solution to use SQL Server.

Also keep in mind that all grading of projects will be done on a Windows 10 platform and as such, your submission must be testable as a node.js application on Windows 10 with SQL Server.



How should I submit my project?

Electronic Submission:

Submit your program files to the *Info3144 "Project 2"* electronic dropbox in *FanshaweOnline*. These files should be submitted as a single "zip" file containing your web application's complete website.

I strongly recommend that you test your own submission to ensure that nothing has been missed.

Submit your project on time!

Project submissions must be made on time! Late projects will be subject to divisional policy on missed test and late projects. In accordance with this policy, no late projects will be accepted without prior notification being received by the instructor from the student.

Submit your own work!

It is considered cheating to submit work done by another student or from another source. Helping another student cheat by sharing your work with them is also not tolerated. Students are encouraged to share ideas and to work together on practice exercises, but any code or documentation prepared for a project must be done by the individual student. Penalties for cheating or helping another student cheat may include being assigned zero on the project with even more severe penalties if you are caught cheating more than once. Just submit your own work and benefit from having made the effort on your own.