

Project 5: Count Northwind Orders

Graded Project



The Northwind Traders Database

- The Northwind Traders database was created by Microsoft for training and demonstration purposes.
- There is a read-only copy on scorpius available to all users.
 - Database name: Northwind
- There are 13 tables in the database
 - In this project we are only concered with two of them.
 - And only a few of the columns in those two tables.



Northwind Database

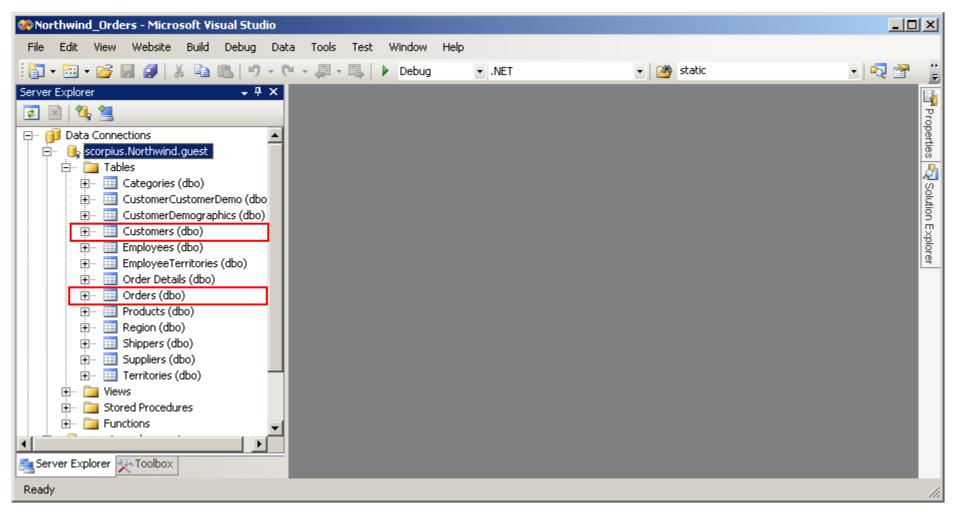
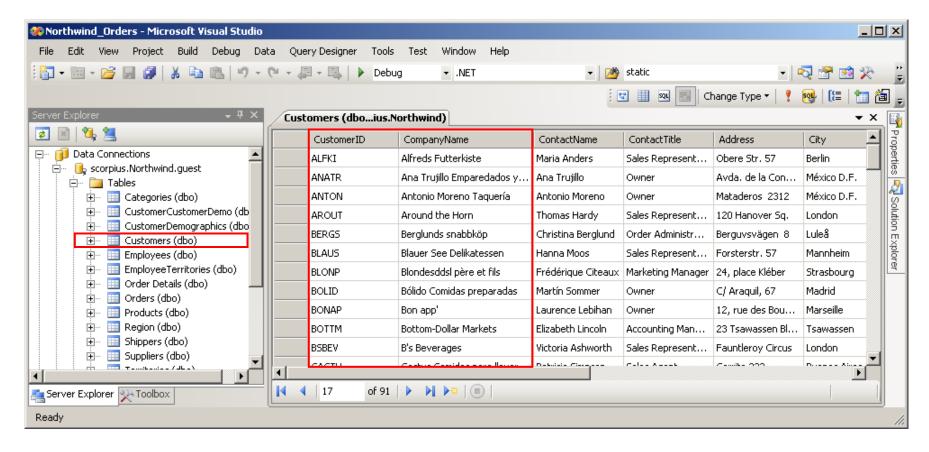




Table Customers



In table Customers, we will be concerned with CustomerID and CompanyName. CustomerID is the primary key.



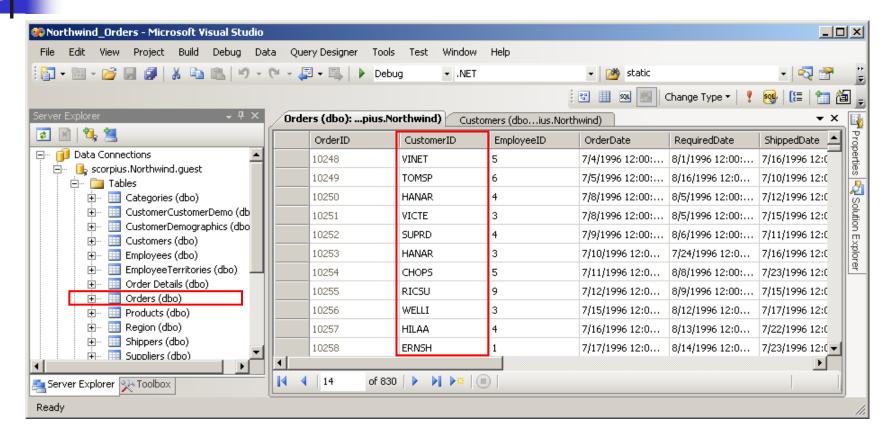


Table Orders has a row for each order that has been entered.

The customer for each order is identified by the Customer ID column.

This is the same CustomerID that appears in the CustomerID column of table Customers.



Assignment

Write an ASP.NET app that permits the user to determine the number of orders that have been entered for a specified customer.

The user identifies a customer by typing the first few letters of the CompanyName (not CustomerID) into a TextBox.



If there are multiple customers whose CompanyName matches the letters entered by the user, the app will display a DropDownList with those companies' names as choices.

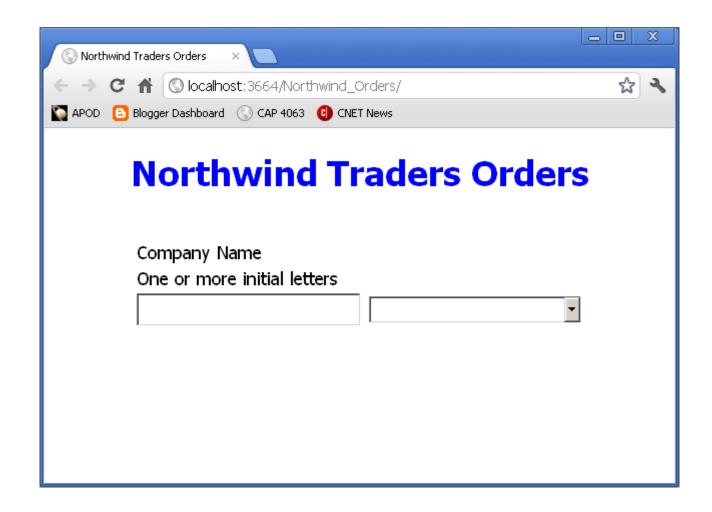
The user can then select the company from the DropDownList.



When the user has uniquely identified a company, the app determines the number of orders in the database for that company and displays the result.



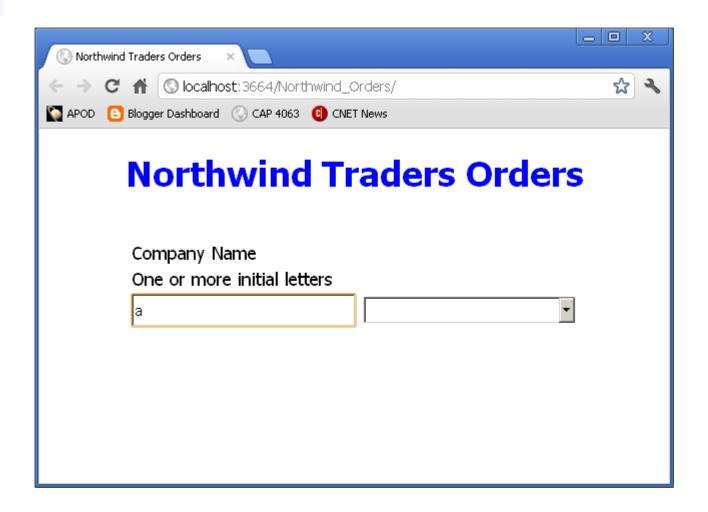
Initial Page



User enters one or more initial letters of company name.



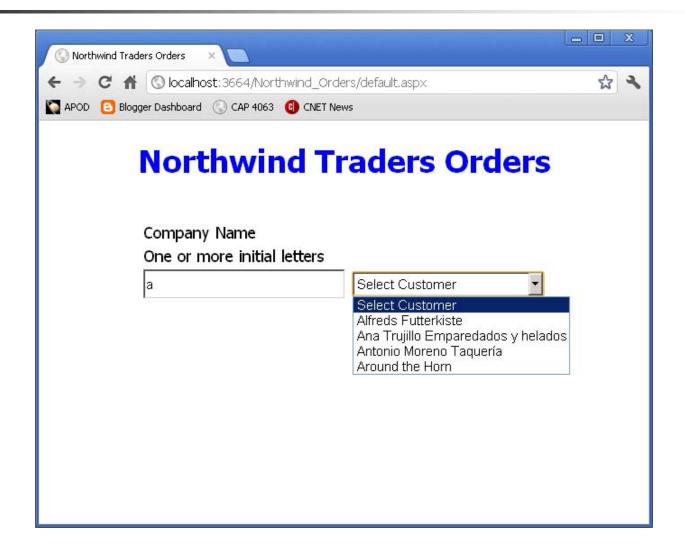
After user has entered initial letters



User presses Tab or Enter, or clicks outside the TextBox.

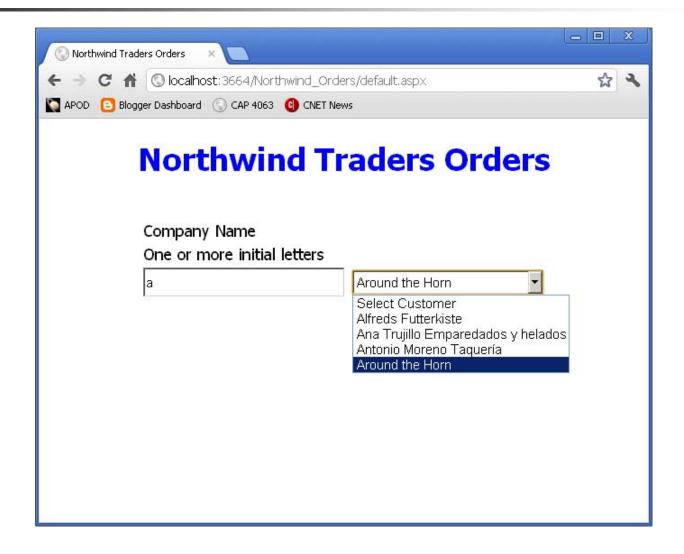


After tabbing out of the TextBox





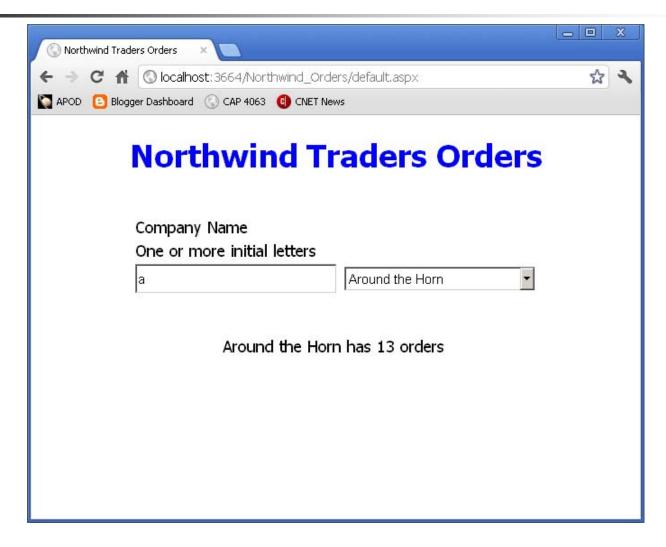
Selecting from the DrowDownList



User selects an item from the DropDownList.



Result Displayed

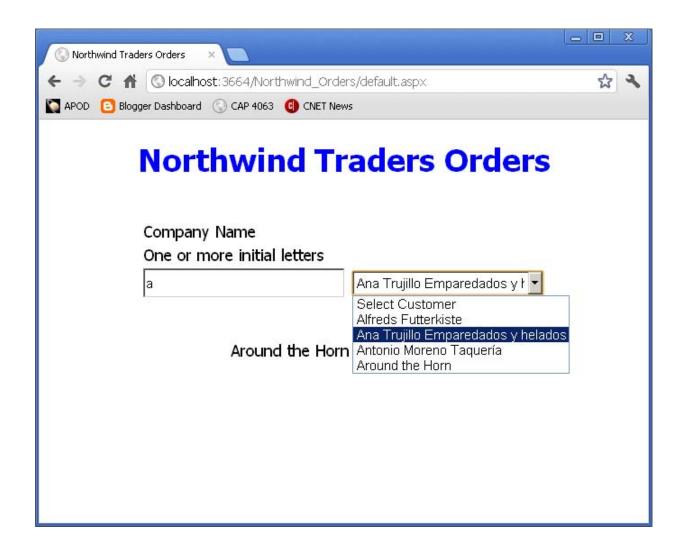


App displays the number of orders for the selected customer.

User can now select another customer from the DropDownList or enter new initial letters into the TextBox.

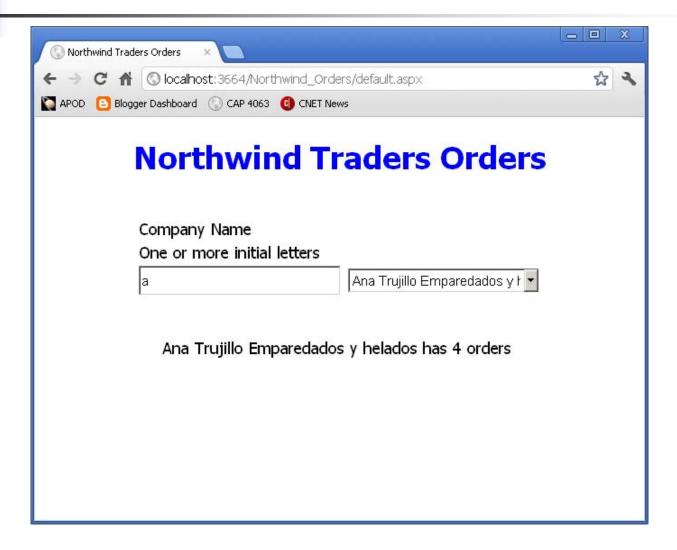


User selects another customer from the DropDownList.





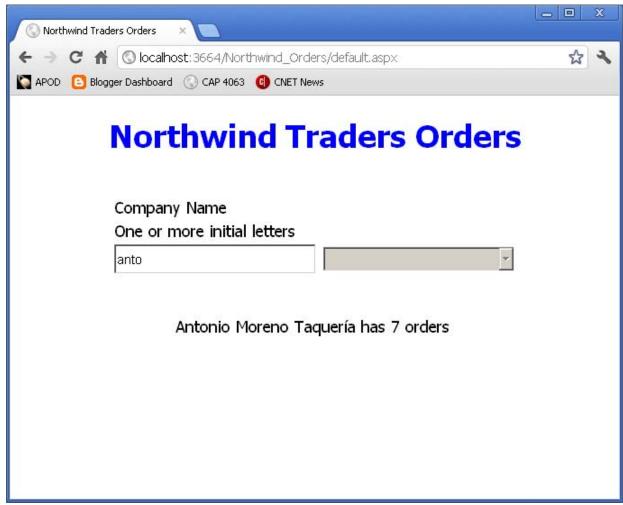
New Result



App displays number of orders for newly selected customer.



User enters letters that uniquely identify a customer.

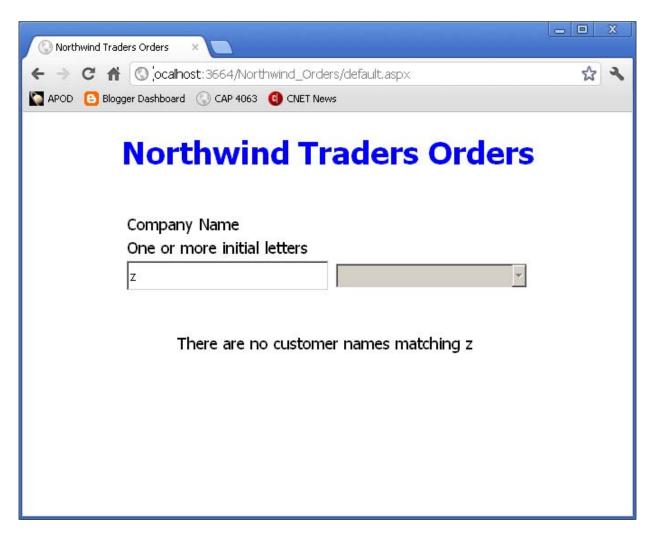


When user tabs out of the TextBox, app immediately displays number of orders.

DropDownList is empty and disabled.



User enters letters with no matching customer name.



App displays error message.

DropDownList is empty and disabled.

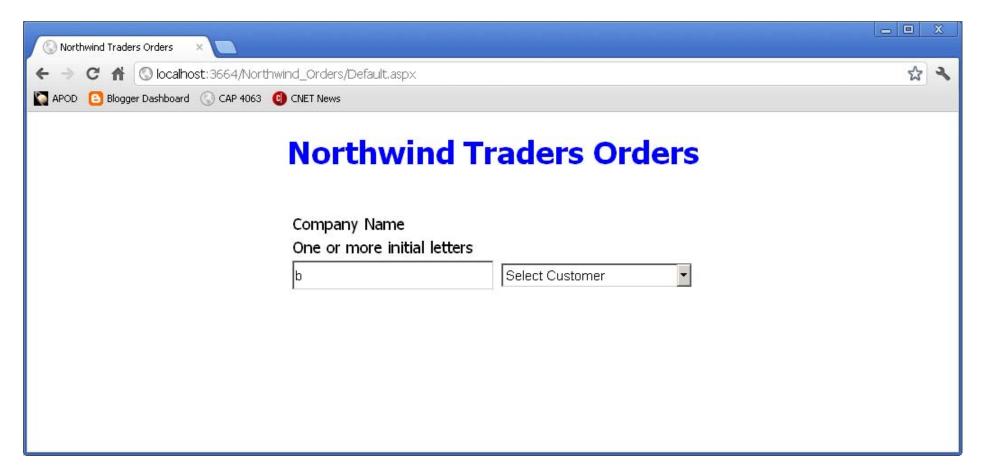


User Resizes Browser Window





User Resizes Browser Window



Page content remains centered.



- Page layout should match the examples.
- Use CSS styling as shown and discussed in class.



- Cursor should be in the TextBox when the page is initially shown on the browser.
 - User can start typing immediately without having to click on the TextBox.
- Remove any leading and trailing spaces from the text that the user enters before looking for matching company names.
 - See C# string class Trim method.
- When the user tabs out of the TextBox after making a change, any previous output disappears.
 - If there are no non-space characters in the TextBox, nothing more happens.
 - Don't look for matches to a zero length string.



- DropDownList has a dummy initial item "Select Customer".
 - If user selects that item, any previous output disappears, but nothing else should happen.
 - DropDownList is unchanged.



Design Matters

 Apply the principles of object oriented design that have been shown and discussed in class.

 Projects will be graded on software design as well as functionality.

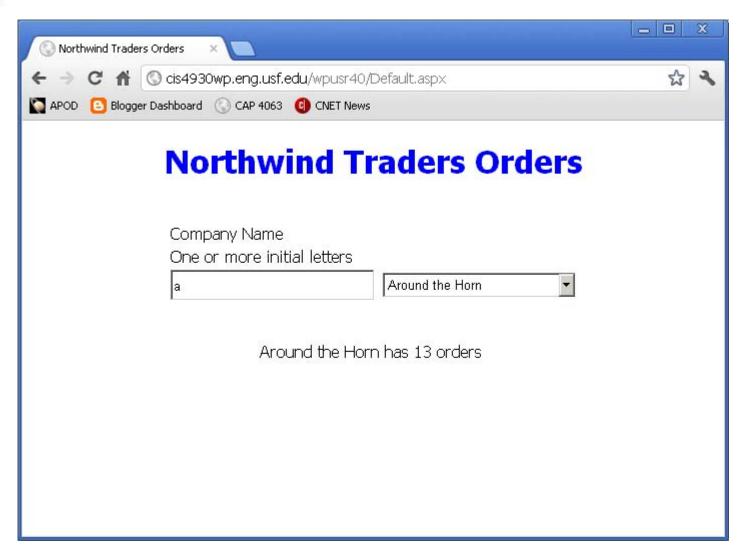


Deployment

- Deploy your application to your virtual directory on the scorpius web site.
 - OK to use a different IIS server if you have access to one.
 - Must be publically accessible on the Internet.
- Put the URL for your app into the Blackboard submission comments box.
 - Example:
 - http://cis4930wp.eng.usf.edu/wpusr40
- Substitute your user ID for wpusr40.
- Grader should be able to view your page by copying and pasting the link 24



App on scorpius





Ground Rules

- No collaboration on this project.
- It is OK to use anything on the class website or in the textbook.
- It is OK to reuse code that you have written previously or submitted as a group member on previous project.



Ground Rules

- Do not share your work with other students.
 Before or after submitting the project.
 - OK to discuss the project.
 - OK to look at others' web sites with a browser.
- Do not copy any other student's code.
 - Or even look at it.
- Do not let anyone copy or examine your code.



Ground Rules

Except for code posted on the class web site

- Do not copy code from the Internet
 - or any other source.
- Write your own code.



Submission

- Submit your web site files via Blackboard Assignments.
- Zip your web site folder using the Windows "Send to Compressed Folder" command.
- Attach the .zip file to your Blackboard submission.
 - Be sure to click Attach after selecting the file.
 - Be sure to click Submit after attaching the file.



Due Date

- Project is due by 11:59 PM, Wednesday, June 20.
 - Late submissions will be seriously penalized.