



## Project 4

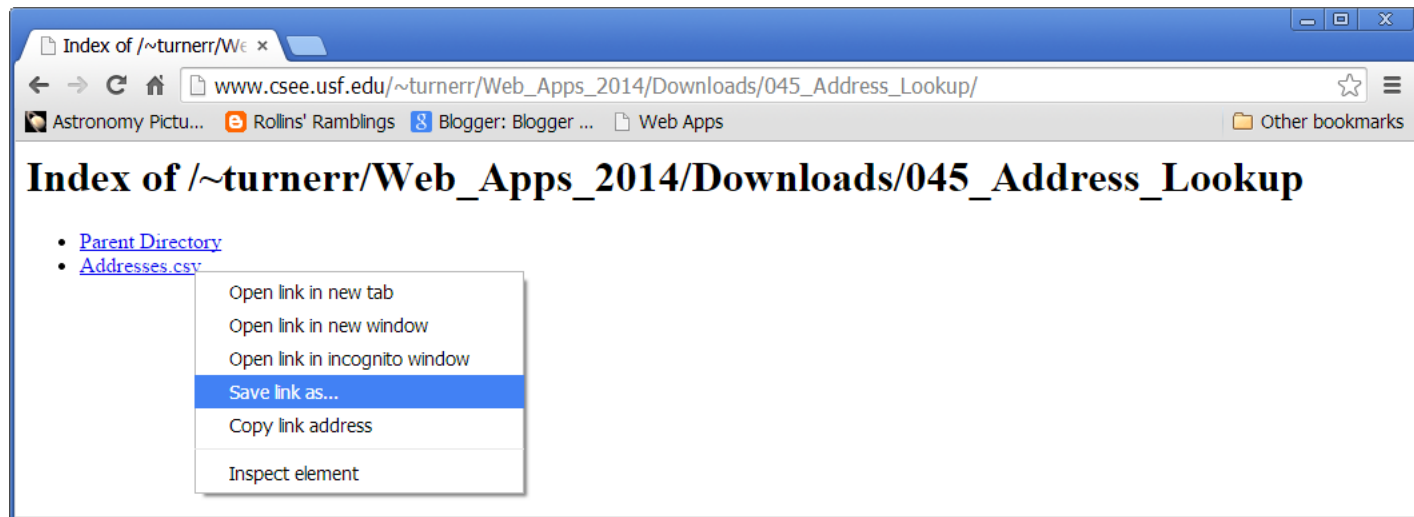
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# Address Lookup

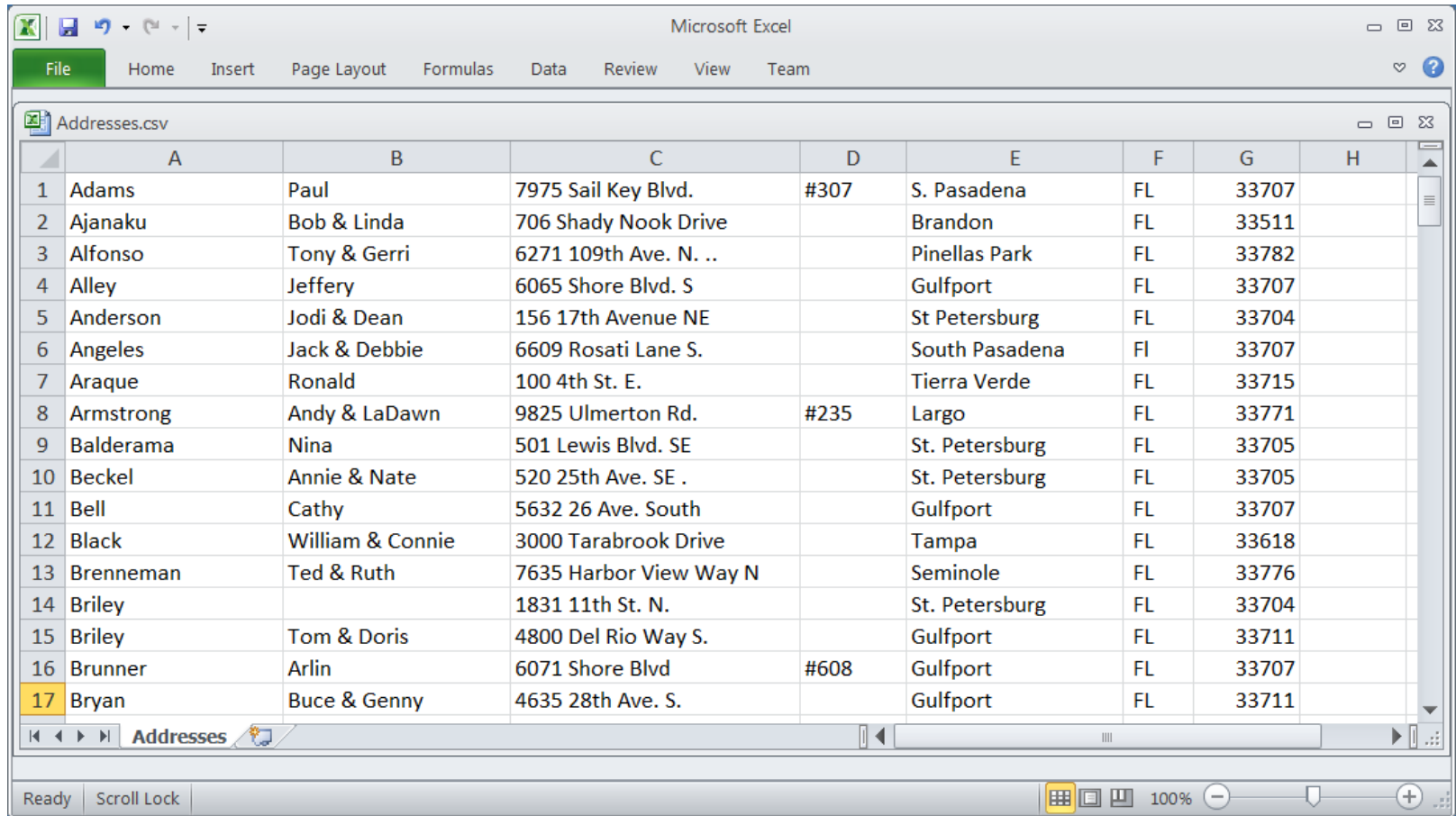
- Write an ASP.NET app that permits users to retrieve addresses from a potentially large list of addresses.
- There will be a two stage selection process.
  - Select the first letter of the last name.
  - Select the name from a list of names with last name beginning with the selected letter.

# The Addresses File

- Download file Addresses.csv from the class web site:
  - <http://www.cse.usf.edu/~turnerr/045>



# Addresses.csv



Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Team

Addresses.csv

	A	B	C	D	E	F	G	H
1	Adams	Paul	7975 Sail Key Blvd.	#307	S. Pasadena	FL	33707	
2	Ajanaku	Bob & Linda	706 Shady Nook Drive		Brandon	FL	33511	
3	Alfonso	Tony & Gerri	6271 109th Ave. N. ..		Pinellas Park	FL	33782	
4	Alley	Jeffery	6065 Shore Blvd. S		Gulfport	FL	33707	
5	Anderson	Jodi & Dean	156 17th Avenue NE		St Petersburg	FL	33704	
6	Angeles	Jack & Debbie	6609 Rosati Lane S.		South Pasadena	FL	33707	
7	Araque	Ronald	100 4th St. E.		Tierra Verde	FL	33715	
8	Armstrong	Andy & LaDawn	9825 Ulmerton Rd.	#235	Largo	FL	33771	
9	Balderama	Nina	501 Lewis Blvd. SE		St. Petersburg	FL	33705	
10	Beckel	Annie & Nate	520 25th Ave. SE .		St. Petersburg	FL	33705	
11	Bell	Cathy	5632 26 Ave. South		Gulfport	FL	33707	
12	Black	William & Connie	3000 Tarabrook Drive		Tampa	FL	33618	
13	Brenneman	Ted & Ruth	7635 Harbor View Way N		Seminole	FL	33776	
14	Briley		1831 11th St. N.		St. Petersburg	FL	33704	
15	Briley	Tom & Doris	4800 Del Rio Way S.		Gulfport	FL	33711	
16	Brunner	Arlin	6071 Shore Blvd	#608	Gulfport	FL	33707	
17	Bryan	Buce & Genny	4635 28th Ave. S.		Gulfport	FL	33711	

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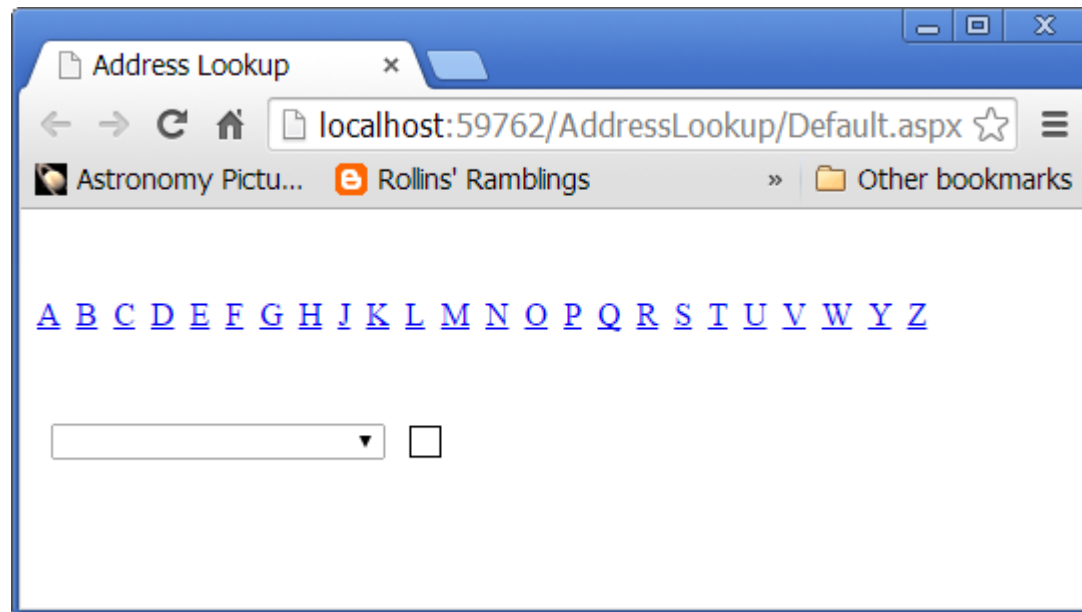
## Use Sequence

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- The user selects the first letter of the last name from a row of single letter links.
- The app populates a dropdown list with all of the names with last name starting with that letter.
- The user selects an item from the dropdown list.
- The app displays the full address for the selected name.
  - The second address line is displayed only if it is nonblank.

# Example

App displays a list of first letters of last names.

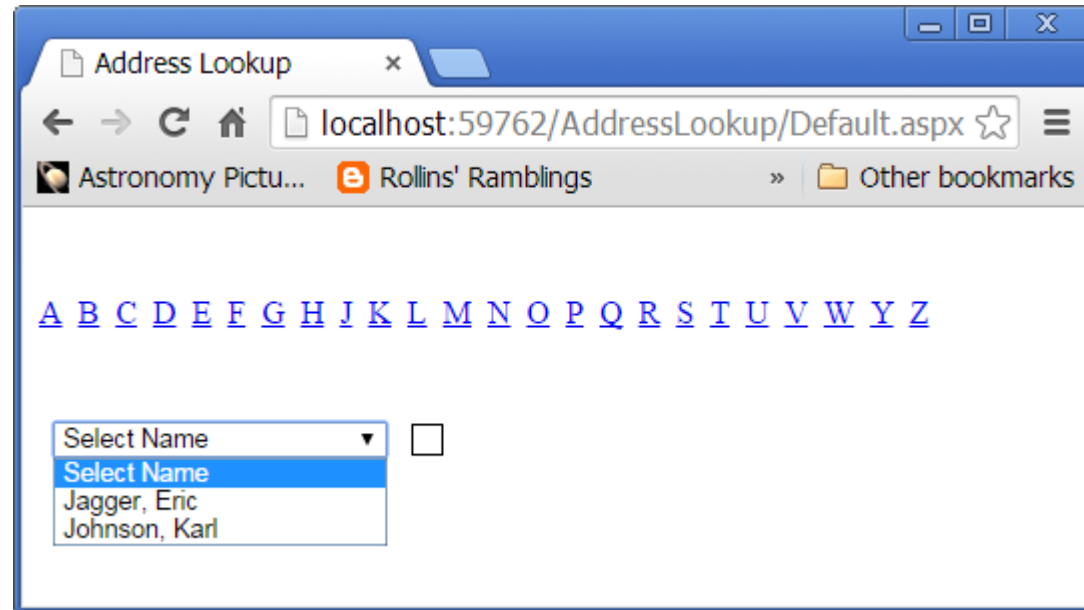


Note that letters with no corresponding last name are not shown.

# Example

User clicks J

App populates dropdown list with names where last name begins with J



User clicks Johnson, Karl

# Example

App displays address of Karl Johnson.



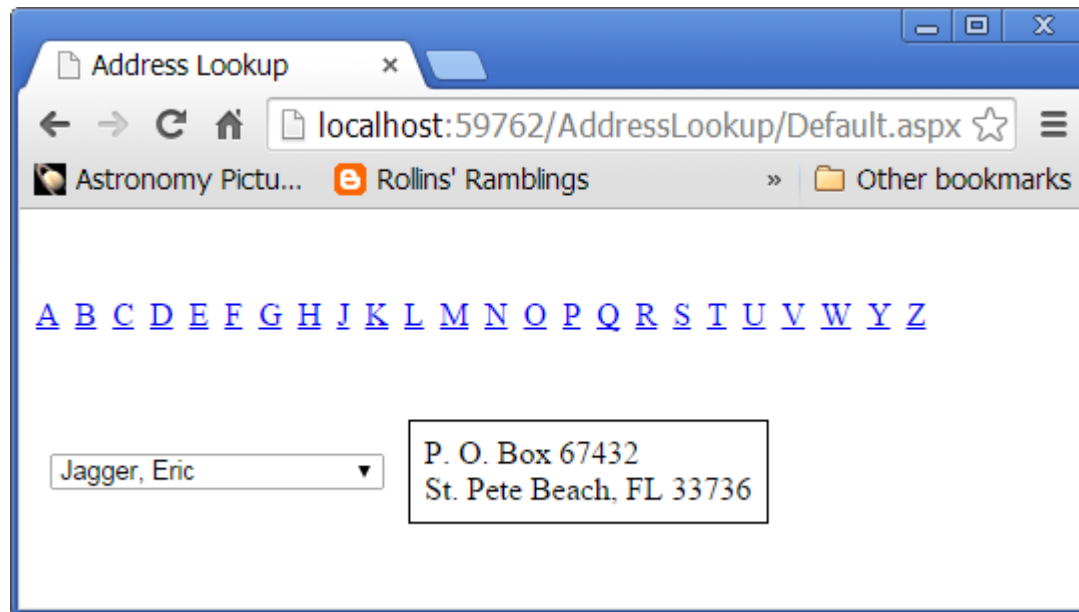
The dropdown list is unchanged.  
User can select another item from the list.



# Example

User clicks Jagger, Eric on the dropdown list.

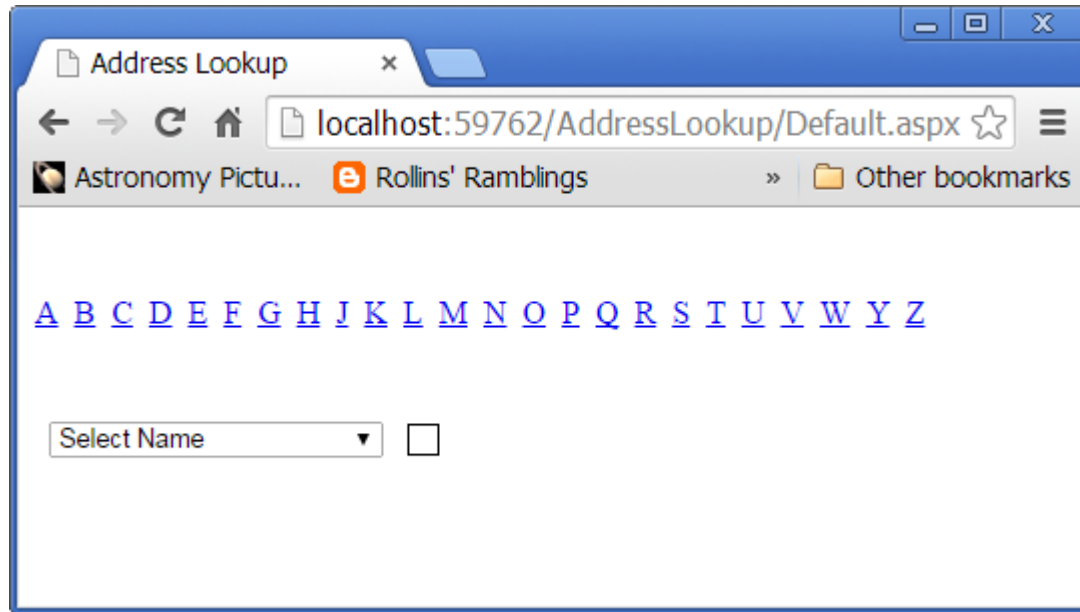
App displays the address of Eric Jagger.



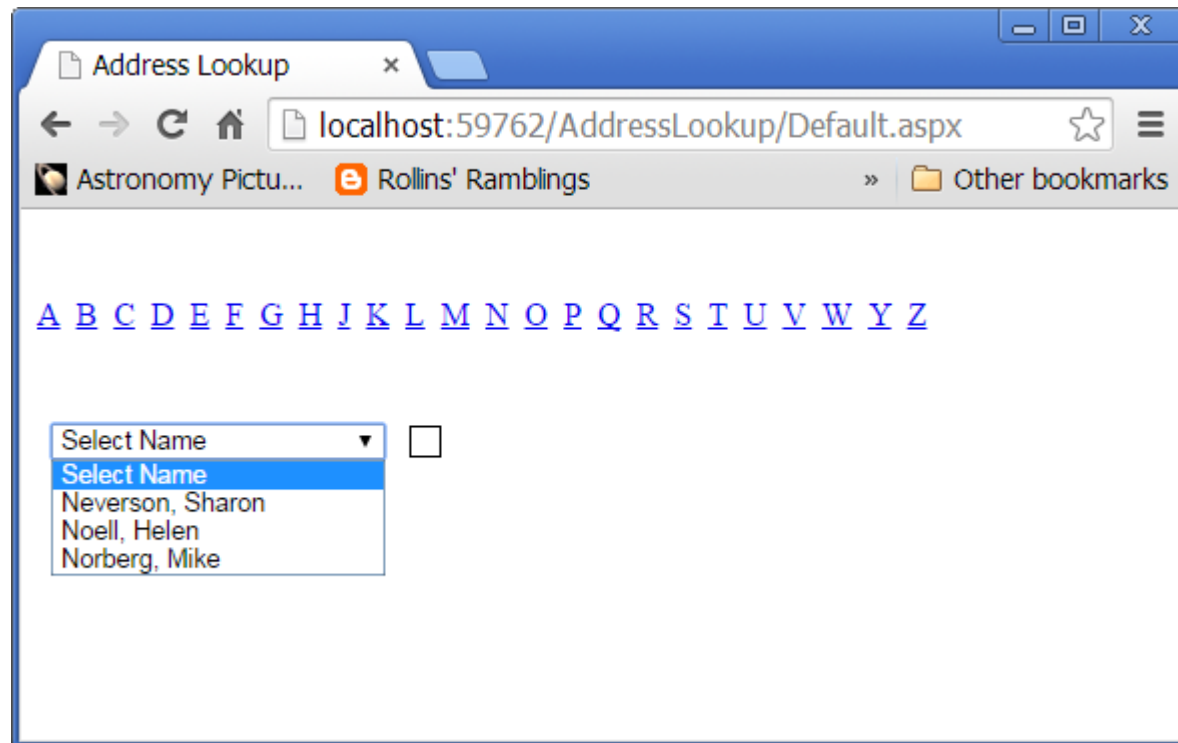
# Example

User clicks N on the initial letter links.

App clears the previous address and populates the dropdown list with names beginning with N.

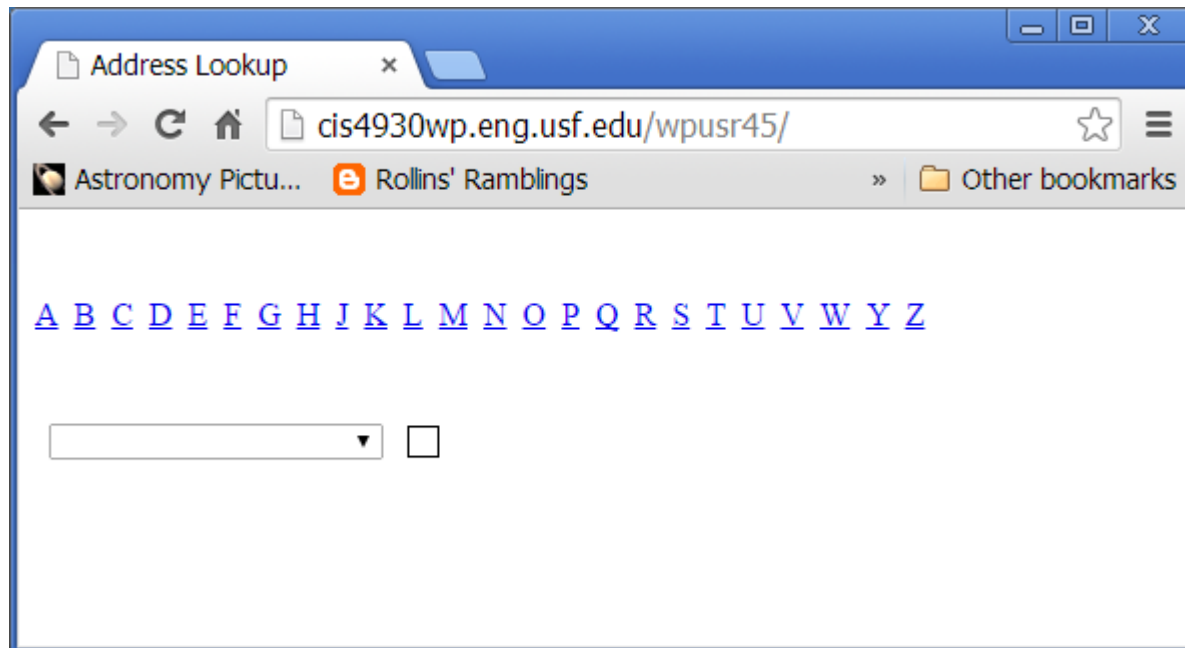


# Example



# Deployed Example

- There is a working example on scorpius:
  - [cis4930wp.eng.usf.edu/wpusr45](http://cis4930wp.eng.usf.edu/wpusr45)





# Specifications

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- Your app should look similar to the example and should behave identically.



# Specifications

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- Use ASP LinkButton controls for the initial letter links.
  - Must be dynamically created based on contents of the file.
  - Only display links for letters having corresponding names in the file.
  - Leave some space between adjacent links.
- Display the address, with a border, beside the dropdown list.
- Clear the displayed address when the user clicks a letter link.

- Define a class, `Address`, to hold address information.
  - One object of this class should hold the information from one line of the input file.
  - Constructor takes one line of the input file as a parameter.
  - Use `Address` objects wherever you need address information.
- Use Application state to hold file contents.
- Read the file only if you have to because the Application variable does not exist.



## Implementation Tips

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- Creating a click event handler for dynamically created LinkButton objects:
- Add a LinkButton to your aspx page from the tool box.
  - Default name will be LinkButton1.
- In the Design view, double click the LinkButton.
  - Visual Studio creates an event handler for that LinkButton:

```
protected void LinkButton1_Click1(object sender, EventArgs e)
{
}
```

- Delete LinkButton1.



- Dynamically creating a LinkButton
- Let firstLetter be a string variable set to a single character string that is the first letter of a last name.

```
LinkButton lb = new LinkButton();  
lb.Text = firstLetter;  
lb.ID = "lb" + firstLetter;  
lb.Click += LinkButton1_Click;
```

- All LinkButtons should use the same click event handler.
  - Use the *sender* parameter to determine which LinkButton was clicked.



# Implementation Tips

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- Review the slides and examples from class presentations.
  - You have seen something similar to everything you need to do in this project.
- It is OK to copy and modify code from class presentations and the Downloads area of the class web site.



# Submission

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- Submit your web site folder via Canvas Assignments:
  - App\_Code folder holding Address class definition
  - App\_Data folder holding Addresses.csv
  - Default.aspx
  - Default.aspx.cs
  - web.config
- Zip your web site folder using the Windows “Send to Compressed Folder” command.
- Submit the .zip file
- Deploy your website files to your scorpius directory.
  - Omit web.config. (It will cause the app to fail on scorpius.)



# Ground Rules

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- You may work with one or two other students.
  - OK to work alone if you prefer.



# Ground Rules

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- If you do collaborate
  - All group members are expected to contribute.
  - Each group member should deploy the files to his or her own scorpius directory.
  - Only one group member should submit the website files in Canvas.
    - Include a comment with the URL of his or her own scorpius directory and the names of all group members.
  - Other group members submit just a comment with their own URL and the names of all group members.
- Grader should be able to access your website by copying the URL from your Canvas comment and pasting it into a browser address box.



# Ground Rules

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- Do not share your work with other students (outside your group.)
  - 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

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Except for code posted on the class web site

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



# Due Date

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- Project is due by 11:59 PM, Sunday, October 5.
  - No late submissions will be accepted.