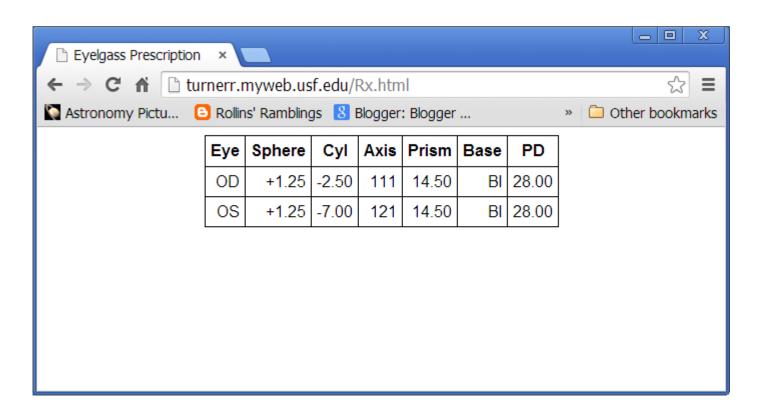


Project 5

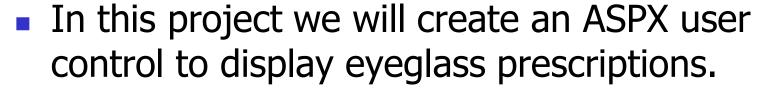
Eyeglass Rx User Control

Eyeglass Rx

 Earlier in the semester we looked at an eyeglass prescription in an example of HTML tables.



Project 5



- Use ASPX Table control so that the contents are settable by code.
- The user control will be a reusable component.

Assignment

- Write an ASP.NET app to display Eyeglass
 Prescriptions from a comma separated values file.
 - Let the display be done by a user control suitable for reuse in other pages and apps.

There is a working example at

http://rollinsturner.net/Eyeglass_Rx/

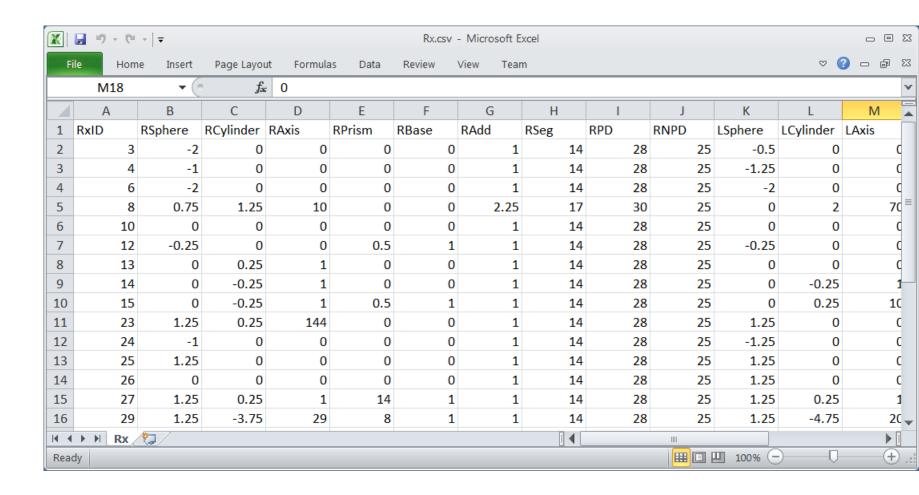
The Data File

Download file Rx.csv from the class web site:

http://www.cse.usf.edu/~turnerr/095



Rx.csv



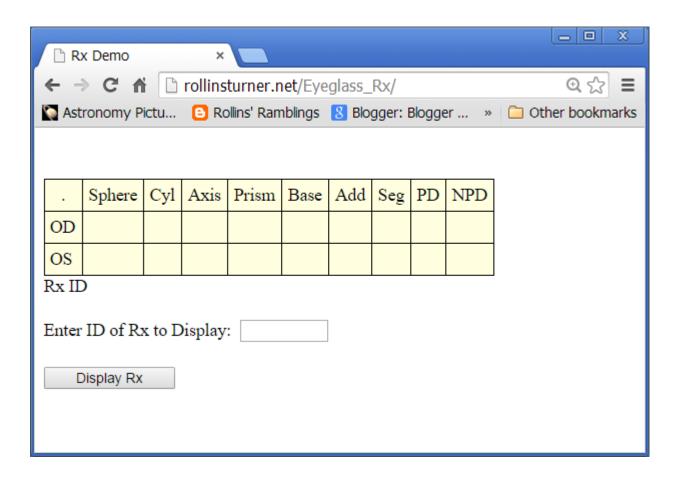
Use Sequence

The user enters a Rx ID into the textbox.

The user clicks the "Display Rx" button.

The app displays the selected Rx.

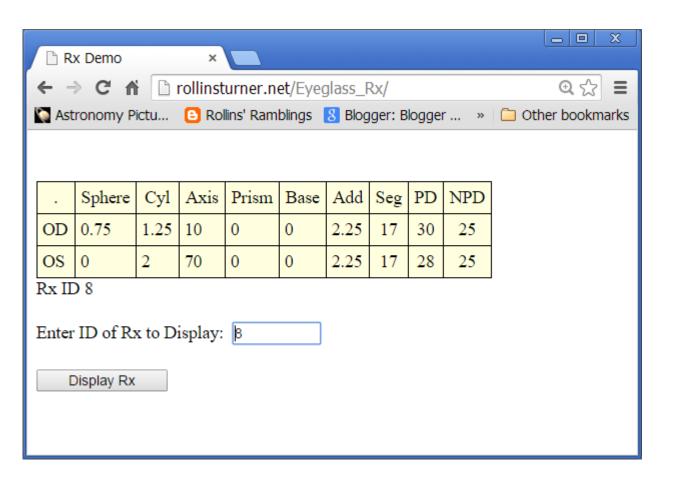
Example



User enters 8 as Rx ID and then clicks "Display Rx".

Example

App displays Rx 8





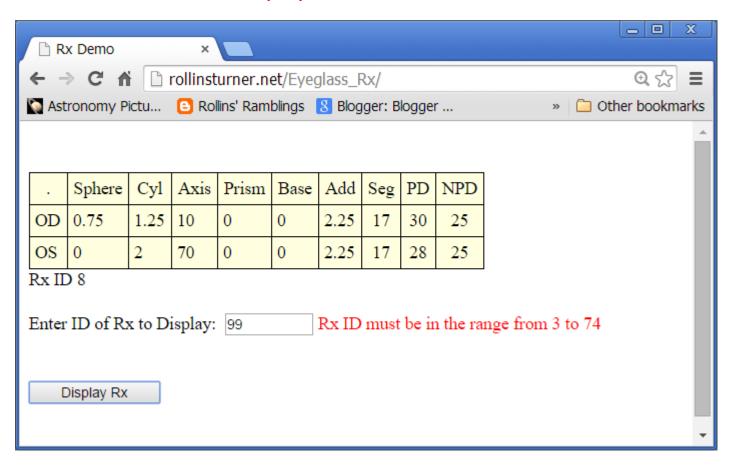
Error Use Sequence

User enters an invalid Rx ID into the textbox.

- User clicks the "Display Rx" button.
- App displays an error message telling the user the valid range of Rx IDs.

Invalid Rx ID Error Use Sequence

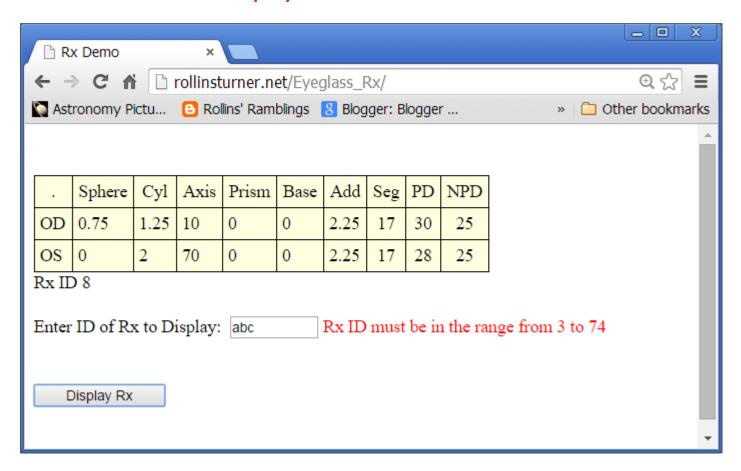
User enters an invalid Rx ID into the textbox and then clicks "Display Rx".



Previously displayed Rx (if any) is unchanged.

Invalid Rx ID Error Use Sequence

User enters an invalid Rx ID into the textbox and then clicks "Display Rx".



Previously displayed Rx (if any) is unchanged.

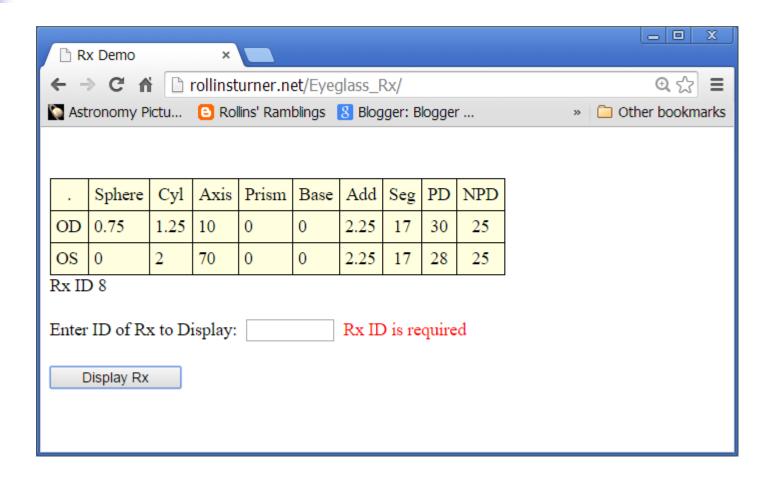


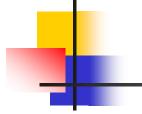
Error Use Sequence

 User clicks the "Display Rx" button with nothing in the Rx ID textbox.

 App displays an error message telling the user that an Rx ID is required.

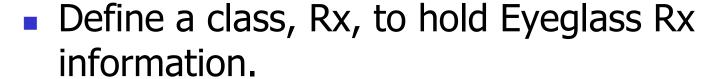
No Rx ID Error Use Sequence





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

Note cell padding.



- An object of this class should hold one eyeglass presecription.
- Constructor takes one line of the data file as a parameter.
- Use Rx objects wherever you need Rx information.
- Use Application state to hold file contents.
- Read the file only if you have to because the Application variable does not exist.

- The eyeglass Rx should be displayed in a user control.
 - Suitable for reuse in other pages and apps.
- The user control should have a public property of type Rx.
 - Setting the property causes the user control to display that Rx.

Use ASPX Validator controls to validate the input.

- Set the min and max values according to the contents of the file.
 - Also the error message.
- The program should have no built-in knowledge of the range of Rx ID values.
 - Accept up to three digits for Rx ID.

- The program should never thrown an exception due to bad input.
 - Even if the user's browser does not support JavaScript, or the user has JavaScript disabled.

Implementation Tips

 Review the slides and examples from class presentations.

 It is OK to copy and modify code from class presentations and the Downloads area of the class web site.

- Look up documentation on the ASPX Table class.
 - The markup in your .aspx file is different from HTML
 markup.
 - Contents settable by page code.
 - Renders as HTML



Implementation Tips

- Test your app with EnableClientScript set to False in all validators.
 - This is to ensure that the app will work correctly even if the browser does not have JavaScript.

Ground Rules

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

Ground Rules



- 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.

Submission

- Submit your web site folder via Canvas Assignments.
- Zip your web site folder using the Windows "Send to Compressed Folder" command.
- Submit the .zip file
 - Do not submit any other form of compressed file.

Submission

- Deploy your website files to your scorpius directory.
 - Omit web.config. (It will cause the app to fail on scorpius.)
 - Delete "using Linq" if it is present in your .cs files.
 - Newer versions of Visual Studio put this into the initial .cs files.
 - It will cause compile errors on scorpius.

Ground Rules



- 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.



Due Date

- Project is due by 11:59 PM, Sunday, October 19.
 - Project submitted after the deadline will be subject to a penalty of 10 points per hour.

End of Presentation 28