Requirements

* (150 pts)Final project: Features, functionality, user experience, code style, and coding syntax.
  + (10) Proper routing techniques, route templates for website and attribute routing for web api.
  + (20) Using binding models and validating all user input in a logical manner to give the users a good experience and keep your application safe.
  + (10) Use tag helpers to create your forms in your web application for a nice user experience.
  + (10) Use dependency injection for all dependencies in all classes.
  + (20) Create and utilize a SQL Server database using at least one data context and entity framework core to access the database. Do all your database interactions in services. You should have examples of creates, reads, updates, and deletes
  + (10) Use MVC filters to clean up your code and remove code redundancy. You should not have repetitious code in the controllers/actions.
  + (10) You should use user accounts, registration, login all using Identity.
  + (10) You should use authorization to limit access to parts of your application for people that do not have access to them. You should also have Razor elements that are shown or hidden based on authorization.
  + (10) Utilize \_Layout.cshtml on each of your views to reduce code and have a consistent look and feel
  + (10) Create and utilize state management through Sessions or Cookies
  + (10) Create and utilize proper error handling techniques including having a custom error handling view
  + (20)  Unit test your code. You should have tests around all your business logic so everything in your services and such should be tested. I am expecting 100% coverage on your business logic since your sites are relatively small applications.
* (50 pts) Project presentation
  + (20) Project demo, you should show all the functionality of your project in the demo
  + (10) What went well during your project, successes and things you are proud of, and things you learned while doing it.
  + (10) What did not go well during your project, challenges and things you struggled with, and how you would improve it if you were to do it again today.
  + (10) Length of the presentation. You are targeting 5 minutes for this presentation going over or under that by more than 1 minute will incur points lost.
* (50 pts) Peer review
  + You will complete a form for each other person in your group, unless you ended up alone by the end.
  + The grades will be based on your honesty and how you were evaluated.

Assignments

Preston

* Create shared repository.
* Login logic with admin and user accounts.
* Controller logic.

Uday

* Unit testing.
* View configuration.
* Model logic.
* Validation

Preston and Uday

* Create azure database.

Logic and identifiers

* Title
* ISBN
  + 13 digits
* GENRE
  + Fiction
  + Non-Fiction
  + Children
  + Other
* Location
* Status
  + Available (Admin to change from Returned)
  + Checked out (User to change from Available)
  + Returned (User to change from Checked out)
* Author

Filters

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