SWEG 5612 Midterm Exam

Web Development II with ASP.NET MVC Core

For this exam you will take an existing ASP.NET application called ToDo List and modify it to show command of the ASP.NET MVC core architecture.

1. Change the background color of the header tag in the main layout to red.
2. Insert the Fairfield University logo, found in the applications root directory, to the right side within the same header tag. (Hint: You are going to have to move the image to an appropriate folder within MVC)
3. Modify the main index view so that an edit button appears to the left of the completed button for each created ToDo task.
4. Direct the click event of this new event button to the Edit method within the Home Controller.
5. Modify the Edit method within this controller to handle the user’s request to edit the existing task.
6. Modify the add view to handle the possibility of it being used as a add/edit view for a given task.
7. Add a date range validation annotation to the ToDo.cs model that guarantees the date being entered in the due date field is greater than or equal to the current date and time.
8. Validate annotated fields when HTTP Post to the Edit method is evaluated by the controller.
9. Persist the changes to the database if no errors were detected else return the view with a list of found errors.
10. Create a new route to handle sorting of the ToDo task fields. The sort will be initiated when a user clicks on a ToDo column heading on the ToDo landing page. The selected sort field should appear in the route.
    1. 5 extra bonus points if you can setup an ascending/descending toggle sort should the user continue to click on the same heading.
11. Create an Areas/Admin section within the website.
12. Create a shared layout for the Admin section called \_AdminLayout.cshtml that correctly has Bootstrap.css setup in its head tag.
13. Change the header and title to say My Admin Page
14. Add a \_ViewImports.cshtml and a \_ViewStart.cshtml to the admin section. The \_ViewStart.cshtml should point to the shared layout you created for this section.
15. Add a Category Controller to the Admin section
16. Use MVC scaffolding to add the following views for Category Controller:
    1. Create
    2. Delete
    3. Details
    4. Edit
    5. Index
17. Add a bootstrap navigation menu to the top of the admin layout page and main layout page so that users can navigate between the two sections.
18. Add the correct MVC route to handle routing to the new admin section and any controller added to that section.