

**Course Information**

Course Number: AWD1115

Course Name: Database Driven Web Development II

Semester: Spring 2022-2023

Class Day(s): Monday- Friday

Class Time: 12:05 PM-3:55 PM

Number of Sessions: 80

Building/Room: Online

**Instructor Information**

Name: Jeff Scott

Office Phone: (314) 286-3675

Cell Phone:

E-mail: jpscott@ranken.edu

Office Location: Online Course

Office Hours: 7 AM – 8 AM Monday – Friday

**Program Level Student Outcomes**

* Develop and design websites that use the latest versions of HTML, CSS, JavaScript, and modern JavaScript libraries.
* Develop, troubleshoot, and implement applications using object-oriented programming principles and fundamentals.
* Build data-driven web applications using JavaScript, Node.js, and Database Management Systems.
* Utilize a version control system to manage code.

**Course Materials and Texts**

Book: TITLE: [Murach's ASP.NET Core MVC (2nd Edition)](https://www.murach.com/shop-books/c-programming-books/murach-s-asp-net-core-mvc-2nd-edition-detail)

AUTHOR: Mary Delamater and Joel Murach

PUBLISHER: Murach

ISBN-13: 978-1-943873-02-9

**Course Description**

Students will delve deeper into web application development as they use industry standard tools to design, code, and test multi-page web applications. Students will implement the Model View Controller (MVC) pattern, work with relational databases, and make full stack web apps with standard features that look great and act responsively. This will widen students' understanding of core programming concepts and web application development. Fourteen credit hours

**Course Level Student Outcomes**

* Develop a data driven MVC application
* Implement controllers and routing
* Test and debug a web application
* Develop sites that utilize Session State and Cookies
* Authenticate and Authorize users

**Policies**

See the [Ranken Technical College Student Handbook](http://ranken.edu/student-life/student-handbook/).

**Attendance**

Students are expected to attend all scheduled course sessions. Students are also expected to arrive on time and remain for the duration of each course session. Students are responsible for monitoring their attendance record on InsideRanken.

**Seated/Face to Face Courses:**

All students in all departments will be held to the following standards:

* The allowable number of absences is based on the total number of sessions the course is scheduled to meet. The allowable number of absences for this course will be \*6\*, as dictated in the student handbook.
* Cancelled course sessions and holidays do not affect the allowable number of absences. The allowable number is always based upon the total number of sessions the course is scheduled to meet.
* Arriving after the scheduled start time or leaving before the scheduled end time will result in a tardy designation for attendance. A tardy is defined as a period of up to 10 minutes during the scheduled class time when a student is not present.
  + Every two tardies will count as one absence. (Two tardies = 1 absence, four tardies = 2 absences, six tardies = 3 absences, etc.)
  + Students missing more than 10 minutes of the course will be counted absent.
* Students will be allowed to make up reasonable academic work missed due to an absence. Reasonable work includes homework, quizzes, and tests. It is not reasonable to make up missed shop and lab hands-on work.

**Online Courses:**

All students in all departments will be held to the following standards:

* The allowable number of absences is 2. After that, the student will be dropped from the class, but can appeal.

**Academic Honesty**

Academic honesty is essential to the education process at Ranken Technical College. Thus, academic dishonesty is a basis for disciplinary action or dismissal. Such acts include:

- Cheating on any type of exam

- Cheating on homework assignments

- Helping another student to cheat on any type of exam

- Helping another student to cheat on homework assignments

- Illegal or unauthorized possession of exams or restricted material

- Illegal or unauthorized changes to a graded assignment or exam

- Plagiarism (including in your work, another’s work that is not properly cited)

**Course Grading**

(Percentage breakdown of projects, tests, homework, etc.)

**Overall Grade Scale**

A 92.5-100% Excellent

B+ 89.5-92.49% Very Good

B 83.5-89.49% Good

C+ 80.5-83.49% Above Average

C 74.5-80.49% Average

D 69.5-74.49% Unsatisfactory. Does not satisfy course requirement

F BELOW 69.49% Failing

**Workload Table**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Category | Reading | Homework | Lecture & Discussion | Quiz | Exam | Projects | Total |
| Instructor Led Lecture & Discussion |  |  | 40 |  | 20 | 260 | 320 |
| Out-of-class participation by student | 65 | 15 |  |  | 10 |  | 90 |
| Lab/Shop |  |  |  |  |  |  |  |

**Inside Ranken**

Students are expected to use Inside Ranken (<http://insideranken.org>) to gain access to general course information, digital course materials, current attendance record, current grades, and online assignments. Students are to notify their instructor immediately of any error in grades or attendance.

**General College Information**

Tutorial Assistance

Students experiencing academic difficulties are encouraged to use the tutorial services offered by the Student Success Center (SSC) located on the top floor on the Finney Building and through the Gray Bridge. You can contact the SSC at (314) 286-4891. Contact Patrick Glynn, Admissions Counselor - Ranken Wentzville at (314)286-3306 or [pmglynn@ranken.edu](mailto:jwsutton@ranken.edu) for Ranken Wentzville-specific information.

Students with Disabilities

Ranken Technical College makes every effort to accommodate individuals with disabilities. To obtain accommodations, students must identify themselves to the Student Success Center (SSC) and provide written documentation of their disabilities from qualified professionals or agencies. You can contact the SSC at (314) 286-4891. Contact Patrick Glynn, Admissions Counselor - Ranken Wentzville at (314)286-3306 or [pmglynn@ranken.edu](mailto:jwsutton@ranken.edu) for Ranken Wentzville-specific information.

Career Services

The Career Services department is available to help students with resume writing and job placement. You can contact Career Services at (314) 286-3665. Contact Patrick Glynn, Admissions Counselor - Ranken Wentzville at (314)286-3306 or [pmglynn@ranken.edu](mailto:jwsutton@ranken.edu) for Ranken Wentzville-specific information.

Snow Days and Campus Emergencies

If classes are canceled due to weather or an emergency, students will be notified via the notification system which will generate a text message to the assigned cell phone and/or email address. Notifications are also posted on the College website and Inside Ranken web portal.

Notifications are active for the time-period you specify during the sign-up process. It is recommended that you sign up for a one-year period. If you are still actively taking classes at Ranken after this time-period, your notifications can be revalidated for an additional period of time. This will also allow you to verify that your information is correct on a yearly basis.

**Please Note:** You may incur charges from your cellular provider for each text message.

We will make every effort to contact you when classes are cancelled. UNLESS YOU ARE ADVISED OTHERWISE, YOU SHOULD ASSUME THAT CLASSES WILL BE HELD.

**Course Schedule**

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| --- | --- | --- |
| Day 1 01/11/23 | **Course Introduction**   * Class Introduction * Student Handbook Review * Work Ethic Grade Sheet * Review of C#/OOP/SQL Server   **Lecture & Lab Chapter 1**   * **An introduction to web programming with ASP.NET Core MVC**   **Specific Objectives:**   * Describe the components of a web app. * Describe the model, view, and controller of the MVC pattern. * Explain how using the MVC pattern can improve app development. * Define state and describe why it’s hard to track in a web app.   **Course Outcome Alignment**   * General Objective: Develop a data driven MVC application | **Homework: Chapter 1**  **Due 1/22/2023**  **Labs/Homework: Chapter 1**  **Due 1/22/2023**  **Written Test: Chapter 1**  **Due 1/22/2023** |
| Day 2 01/12/23 | **Course Introduction**   * Review of C#/OOP/SQL Server   **Lecture & Lab Chapter 1**   * **An introduction to web programming with ASP.NET Core MVC**   **Specific Objectives:**   * Describe the components of a web app. * Describe the model, view, and controller of the MVC pattern. * Explain how using the MVC pattern can improve app development. * Define state and describe why it’s hard to track in a web app.   **Course Outcome Alignment**  General Objective: Develop a data driven MVC application | **Homework: Chapter 1**  **Due 1/22/2023**  **Labs/Homework: Chapter 1**  **Due 1/22/2023**  **Written Test: Chapter 1**  **Due 1/22/2023** |

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| --- | --- | --- |
| Day 3 01/13/23 Day 4 01/17/23 | * **Lab Day**   **Specific Objectives:**   * Describe the components of a web app. * Describe the model, view, and controller of the MVC pattern. * Explain how using the MVC pattern can improve app development. * Define state and describe why it’s hard to track in a web app.   **Course Outcome Alignment**   * General Objective: Develop a data driven MVC application   **NO CLASSES Monday 1/16/2022 (MLK Day)**  **C#/Chapter 1 Hands-On Test #1**  **Course Outcome Alignment**   * General Objective: Develop a data driven MVC application | **Homework: Chapter 1**  **Due 1/22/2023**  **Labs/Homework: Chapter 1**  **Due 1/22/2023**  **Written Test: Chapter 1**  **Due 1/22/2023**  **Homework: Chapter 1**  **Due 1/22/2023**  **Labs/Homework: Chapter 1**  **Due 1/22/2023**  **Written Test: Chapter 1**  **Due 1/22/2023** |
| Day 5 01/18/23 | **Lecture & Lab Chapter 2**  **General Objective: How to develop a one-page MVC web app**  **Specific Objectives:**   * Write the C# code for the model and controller classes and write the C# code and HTML for the Razor view. * Describe how a controller and its action methods work. * Describe how you can use the ViewBag property to transfer data from a controller to a view. * Distinguish between a model class and a controller class. * Describe how ASP.NET Core MVC provides for validating the data entered by a user.   **Course Outcome Alignment**   * Develop a data driven MVC application | **Homework: Chapter 1**  **Due 1/22/2023**  **Labs/Homework: Chapter 1**  **Due 1/22/2023**  **Written Test: Chapter 1**  **Due 1/22/2023**  **Homework: Chapter 2**  **Due 1/29/2023**  **Labs/Homework: Chapter 2**  **Due 1/29/2023**  **Written Test: Chapter 2**  **Due 1/29/2023** |
| Day 6 01/19/23 | **Lecture & Lab Chapter 2**  **General Objective: How to develop a one-page MVC web app**  **Specific Objectives:**   * Write the C# code for the model and controller classes and write the C# code and HTML for the Razor view. * Describe how a controller and its action methods work. * Describe how you can use the ViewBag property to transfer data from a controller to a view. * Distinguish between a model class and a controller class. * Describe how ASP.NET Core MVC provides for validating the data entered by a user.   **Course Outcome Alignment**  Develop a data driven MVC application | **Homework: Chapter 1**  **Due 1/22/2023**  **Labs/Homework: Chapter 1**  **Due 1/22/2023**  **Written Test: Chapter 1**  **Due 1/22/2023**  **Homework: Chapter 2**  **Due 1/29/2023**  **Labs/Homework: Chapter 2**  **Due 1/29/2023**  **Written Test: Chapter 2**  **Due 1/29/2023** |
| Day 7 01/20/23 | **Lecture & Lab Chapter 2**  **General Objective: How to develop a one-page MVC web app**  **Specific Objectives:**   * Write the C# code for the model and controller classes and write the C# code and HTML for the Razor view. * Describe how a controller and its action methods work. * Describe how you can use the ViewBag property to transfer data from a controller to a view. * Distinguish between a model class and a controller class.   Describe how ASP.NET Core MVC provides  **Course Outcome Alignment**  Develop a data driven MVC application | **Homework: Chapter 1**  **Due 1/22/2023**  **Labs/Homework: Chapter 1**  **Due 1/22/2023**  **Written Test: Chapter 1**  **Due 1/22/2023**  **Homework: Chapter 2**  **Due 1/29/2023**  **Labs/Homework: Chapter 2**  **Due 1/29/2023**  **Written Test: Chapter 2**  **Due 1/29/2023** |
| Day 8 01/23/23 | **Lecture & Lab Chapter 3**  **General Objective: How to develop a one-page MVC web app**  **Specific Objectives:**   * Write the C# code for the model and controller classes and write the C# code and HTML for the Razor view. * Describe how a controller and its action methods work. * Describe how you can use the ViewBag property to transfer data from a controller to a view. * Distinguish between a model class and a controller class.   Describe how ASP.NET Core MVC provides  **Course Outcome Alignment**  Develop a data driven MVC application | **Homework: Chapter 2**  **Due 1/29/2023**  **Labs/Homework: Chapter 2**  **Due 1/29/2023**  **Written Test: Chapter 2**  **Due 1/29/2023**  **Homework: Chapter 3**  **Due 2/5/2023**  **Labs/Homework: Chapter 3**  **Due 2/5/2023**  **Written Test: Chapter 3**  **Due 2/5/2023** |
| Day 9 01/24/23 | **Lecture & Lab Chapter 3**  **General Objective: How to develop a one-page MVC web app**  **Specific Objectives:**   * Write the C# code for the model and controller classes and write the C# code and HTML for the Razor view. * Describe how a controller and its action methods work. * Describe how you can use the ViewBag property to transfer data from a controller to a view. * Distinguish between a model class and a controller class.   Describe how ASP.NET Core MVC provides  **Course Outcome Alignment**   * Develop a data driven MVC application | **Homework: Chapter 2**  **Due 1/29/2023**  **Labs/Homework: Chapter 2**  **Due 1/29/2023**  **Written Test: Chapter 2**  **Due 1/29/2023**  **Homework: Chapter 3**  **Due 2/5/2023**  **Labs/Homework: Chapter 3**  **Due 2/5/2023**  **Written Test: Chapter 3**  **Due 2/5/2023** |
| Day 10 01/25/23 | **Lecture & Lab Chapter 3**  **General Objective: How to develop a one-page MVC web app**  **Specific Objectives:**   * Write the C# code for the model and controller classes and write the C# code and HTML for the Razor view. * Describe how a controller and its action methods work. * Describe how you can use the ViewBag property to transfer data from a controller to a view. * Distinguish between a model class and a controller class.   Describe how ASP.NET Core MVC provides  **Course Outcome Alignment**  Develop a data driven MVC application | **Homework: Chapter 2**  **Due 1/29/2023**  **Labs/Homework: Chapter 2**  **Due 1/29/2023**  **Written Test: Chapter 2**  **Due 1/29/2023**  **Homework: Chapter 3**  **Due 2/5/2023**  **Labs/Homework: Chapter 3**  **Due 2/5/2023**  **Written Test: Chapter 3**  **Due 2/5/2023** |
| Day 11 01/26/23 | **Test #2 – Chapters 1 - 3**  **Specific Objectives:**   * Describe the use of floating for page layout. * Describe the use of the clear property in a CSS rule set. * Distinguish between fixed and fluid page layout. * Describe the use of the CSS3 feature for text columns.   Describe the use of absolute, relative, and fixed positioning.  **Course Outcome Alignment**  Develop a data driven MVC application | **Homework: Chapter 2**  **Due 1/29/2023**  **Labs/Homework: Chapter 2**  **Due 1/29/2023**  **Written Test: Chapter 2**  **Due 1/29/2023**  **Homework: Chapter 3**  **Due 2/5/2023**  **Labs/Homework: Chapter 3**  **Due 2/5/2023**  **Written Test: Chapter 3**  **Due 2/5/2023** |
| Day 12 01/27/23 | **Lab Day**  **Specific Objectives:**   * Describe/demonstrate how to define a basic grid * Describe/demonstrate how to use numbered lines, named lines, and template areas * Define/describe how to use the 12-column grid concept   **Course Outcome Alignment**   * Plan, analyze, design, implement, and support web sites * Format text, implement page layout, create links, images, lists, tables, and incorporate video, audio, and social media tool | **Homework: Chapter 2**  **Due 1/29/2023**  **Labs/Homework: Chapter 2**  **Due 1/29/2023**  **Written Test: Chapter 2**  **Due 1/29/2023**  **Homework: Chapter 3**  **Due 2/5/2023**  **Labs/Homework: Chapter 3**  **Due 2/5/2023**  **Written Test: Chapter 3**  **Due 2/5/2023** |
| Day 13 01/30/23 | **Lecture & Lab Chapter 4**  **General Objective: How to develop a one-page MVC web app**  **Specific Objectives:**   * Write the C# code for the model and controller classes and write the C# code and HTML for the Razor view. * Describe how a controller and its action methods work. * Describe how you can use the ViewBag property to transfer data from a controller to a view. * Distinguish between a model class and a controller class.   Describe how ASP.NET Core MVC provides  **Course Outcome Alignment**  Develop a data driven MVC application | **Homework: Chapter 3**  **Due 2/5/2023**  **Labs/Homework: Chapter 3**  **Due 2/5/2023**  **Written Test: Chapter 3**  **Due 2/5/2023**  **Homework: Chapter 4**  **Due 2/12/2023**  **Labs/Homework: Chapter 4**  **Due 2/12/2023**  **Written Test: Chapter 4**  **Due 2/12/2023** |
| Day 14 01/31/23 | **Lecture & Lab Chapter 4**  **General Objective: How to develop a one-page MVC web app**  **Specific Objectives:**   * Write the C# code for the model and controller classes and write the C# code and HTML for the Razor view. * Describe how a controller and its action methods work. * Describe how you can use the ViewBag property to transfer data from a controller to a view. * Distinguish between a model class and a controller class.   Describe how ASP.NET Core MVC provides  **Course Outcome Alignment**   * Develop a data driven MVC application | **Homework: Chapter 3**  **Due 2/5/2023**  **Labs/Homework: Chapter 3**  **Due 2/5/2023**  **Written Test: Chapter 3**  **Due 2/5/2023**  **Homework: Chapter 4**  **Due 2/12/2023**  **Labs/Homework: Chapter 4**  **Due 2/12/2023**  **Written Test: Chapter 4**  **Due 2/12/2023** |
| Day 15 02/01/23 | **Lecture & Lab Chapter 4**  **General Objective: How to develop a one-page MVC web app**  **Specific Objectives:**   * Write the C# code for the model and controller classes and write the C# code and HTML for the Razor view. * Describe how a controller and its action methods work. * Describe how you can use the ViewBag property to transfer data from a controller to a view. * Distinguish between a model class and a controller class.   Describe how ASP.NET Core MVC provides  **Course Outcome Alignment**   * Develop a data driven MVC application | **Homework: Chapter 3**  **Due 2/5/2023**  **Labs/Homework: Chapter 3**  **Due 2/5/2023**  **Written Test: Chapter 3**  **Due 2/5/2023**  **Homework: Chapter 4**  **Due 2/12/2023**  **Labs/Homework: Chapter 4**  **Due 2/12/2023**  **Written Test: Chapter 4**  **Due 2/12/2023** |
| Day 16 02/02/23 | **Lecture & Lab Chapter 4**  **General Objective: How to develop a one-page MVC web app**  **Specific Objectives:**   * Write the C# code for the model and controller classes and write the C# code and HTML for the Razor view. * Describe how a controller and its action methods work. * Describe how you can use the ViewBag property to transfer data from a controller to a view. * Distinguish between a model class and a controller class.   Describe how ASP.NET Core MVC provides  **Course Outcome Alignment**  Develop a data driven MVC application | **Homework: Chapter 3**  **Due 2/5/2023**  **Labs/Homework: Chapter 3**  **Due 2/5/2023**  **Written Test: Chapter 3**  **Due 2/5/2023**  **Homework: Chapter 4**  **Due 2/12/2023**  **Labs/Homework: Chapter 4**  **Due 2/12/2023**  **Written Test: Chapter 4**  **Due 2/12/2023** |
| Day 17 02/03/23 | * **Lab period**   **General Objective: How to develop a one-page MVC web app**  **Specific Objectives:**   * Write the C# code for the model and controller classes and write the C# code and HTML for the Razor view. * Describe how a controller and its action methods work. * Describe how you can use the ViewBag property to transfer data from a controller to a view. * Distinguish between a model class and a controller class.   Describe how ASP.NET Core MVC provides  **Course Outcome Alignment**   * Develop a data driven MVC application | **Homework: Chapter 3**  **Due 2/5/2023**  **Labs/Homework: Chapter 3**  **Due 2/5/2023**  **Written Test: Chapter 3**  **Due 2/5/2023**  **Homework: Chapter 4**  **Due 2/12/2023**  **Labs/Homework: Chapter 4**  **Due 2/12/2023**  **Written Test: Chapter 4**  **Due 2/12/2023** |
| Day 18 02/06/23 | **Lecture & Lab Chapter 5**  **General Objective: How to test and debug an MVC web app**  **Specific Objectives:**   * Manually test a web app in multiple browsers to find errors. * Describe some of the debugging features provided by the developer tools of the major browsers. * Describe the conditions under which the Internal Server Error page is displayed. * Describe the conditions under which the Exception Helper dialog is displayed. * Describe the three Step commands that you can use to control the execution of an app when it reaches a breakpoint: Step Into, Step Over, and Step Out. * Describe the use of the Locals and Watch windows. * Describe the use of the Immediate window.   **Course Outcome Alignment**  Test and Debug a web application | **Homework: Chapter 4**  **Due 2/12/2023**  **Labs/Homework: Chapter 4**  **Due 2/12/2023**  **Written Test: Chapter 4**  **Due 2/12/2023**  **Homework: Chapter 5**  **Due 2/12/2023**  **Labs/Homework: Chapter 5**  **Due 2/12/2023**  **Written Test: Chapter 5**  **Due 2/12/2023** |
| Day 19 02/07/23 | **Lecture & Lab Chapter 5**  **General Objective: How to test and debug an MVC web app**  **Specific Objectives:**   * Manually test a web app in multiple browsers to find errors. * Describe some of the debugging features provided by the developer tools of the major browsers. * Describe the conditions under which the Internal Server Error page is displayed. * Describe the conditions under which the Exception Helper dialog is displayed. * Describe the three Step commands that you can use to control the execution of an app when it reaches a breakpoint: Step Into, Step Over, and Step Out. * Describe the use of the Locals and Watch windows. * Describe the use of the Immediate window.   **Course Outcome Alignment**  Test and Debug a web application | **Homework: Chapter 4**  **Due 2/12/2023**  **Labs/Homework: Chapter 4**  **Due 2/12/2023**  **Written Test: Chapter 4**  **Due 2/12/2023**  **Homework: Chapter 5**  **Due 2/12/2023**  **Labs/Homework: Chapter 5**  **Due 2/12/2023**  **Written Test: Chapter 5**  **Due 2/12/2023** |
| Day 20 02/08/23 | **Lecture & Lab Chapter 5**  **General Objective: How to test and debug an MVC web app**  **Specific Objectives:**   * Manually test a web app in multiple browsers to find errors. * Describe some of the debugging features provided by the developer tools of the major browsers. * Describe the conditions under which the Internal Server Error page is displayed. * Describe the conditions under which the Exception Helper dialog is displayed. * Describe the three Step commands that you can use to control the execution of an app when it reaches a breakpoint: Step Into, Step Over, and Step Out. * Describe the use of the Locals and Watch windows. * Describe the use of the Immediate window.   **Course Outcome Alignment**  Test and Debug a web application | **Homework: Chapter 4**  **Due 2/12/2023**  **Labs/Homework: Chapter 4**  **Due 2/12/2023**  **Written Test: Chapter 4**  **Due 2/12/2023**  **Homework: Chapter 5**  **Due 2/12/2023**  **Labs/Homework: Chapter 5**  **Due 2/12/2023**  **Written Test: Chapter 5**  **Due 2/12/2023** |
| Day 21 02/09/23 | **Test #3 – Chapters 1 – 5**  **General Objective: How to test and debug an MVC web app**  **Specific Objectives:**   * Manually test a web app in multiple browsers to find errors. * Describe some of the debugging features provided by the developer tools of the major browsers. * Describe the conditions under which the Internal Server Error page is displayed. * Describe the conditions under which the Exception Helper dialog is displayed. * Describe the three Step commands that you can use to control the execution of an app when it reaches a breakpoint: Step Into, Step Over, and Step Out. * Describe the use of the Locals and Watch windows. * Describe the use of the Immediate window.   **Course Outcome Alignment**  Test and Debug a web application | **Homework: Chapter 4**  **Due 2/12/2023**  **Labs/Homework: Chapter 4**  **Due 2/12/2023**  **Written Test: Chapter 4**  **Due 2/12/2023**  **Homework: Chapter 5**  **Due 2/12/2023**  **Labs/Homework: Chapter 5**  **Due 2/12/2023**  **Written Test: Chapter 5**  **Due 2/12/2023** |
| Day 22 02/10/23 | * **Lab all period**   **General Objective: How to test and debug an MVC web app**  **Specific Objectives:**   * Manually test a web app in multiple browsers to find errors. * Describe some of the debugging features provided by the developer tools of the major browsers. * Describe the conditions under which the Internal Server Error page is displayed. * Describe the conditions under which the Exception Helper dialog is displayed. * Describe the three Step commands that you can use to control the execution of an app when it reaches a breakpoint: Step Into, Step Over, and Step Out. * Describe the use of the Locals and Watch windows. * Describe the use of the Immediate window.   **Course Outcome Alignment**  Test and Debug a web application | **Homework: Chapter 4**  **Due 2/12/2023**  **Labs/Homework: Chapter 4**  **Due 2/12/2023**  **Written Test: Chapter 4**  **Due 2/12/2023**  **Homework: Chapter 5**  **Due 2/12/2023**  **Labs/Homework: Chapter 5**  **Due 2/12/2023**  **Written Test: Chapter 5**  **Due 2/12/2023** |

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| Day 23 02/13/23 | **Lecture & Lab Chapter 6**  **General Objective: Working with controllers and routing**  **Specific Objectives:**   * Configure the routing for an ASP.NET Core MVC web app and develop controllers that work with the URLs of the app. * Use areas to organize the folders and files of an app. * Describe how the segments of the default route map to a controller, its action methods, and their parameters. * For a custom route, describe the difference between specifying static and dynamic data. * Distinguish between attribute routing and regular routing. * Describe how you can use areas to organize the folders and files of an app.   **Course Outcome Alignment**  Implement controllers and routing | **Homework: Chapter 6**  **Due 2/19/2023**  **Labs/Homework: Chapter 6**  **Due 2/19/2023**  **Written Test: Chapter 6**  **Due 2/19/2023** |
| Day 24 02/14/23 | **Lecture & Lab Chapter 6**  **General Objective: Working with controllers and routing**  **Specific Objectives:**   * Configure the routing for an ASP.NET Core MVC web app and develop controllers that work with the URLs of the app. * Use areas to organize the folders and files of an app. * Describe how the segments of the default route map to a controller, its action methods, and their parameters. * For a custom route, describe the difference between specifying static and dynamic data. * Distinguish between attribute routing and regular routing. * Describe how you can use areas to organize the folders and files of an app.   **Course Outcome Alignment**  Implement controllers and routing | **Homework: Chapter 6**  **Due 2/19/2023**  **Labs/Homework: Chapter 6**  **Due 2/19/2023**  **Written Test: Chapter 6**  **Due 2/19/2023** |
| Day 25 02/15/23 | **Lecture & Lab Chapter 6**  **General Objective: Working with controllers and routing**  **Specific Objectives:**   * Configure the routing for an ASP.NET Core MVC web app and develop controllers that work with the URLs of the app. * Use areas to organize the folders and files of an app. * Describe how the segments of the default route map to a controller, its action methods, and their parameters. * For a custom route, describe the difference between specifying static and dynamic data. * Distinguish between attribute routing and regular routing. * Describe how you can use areas to organize the folders and files of an app.   **Course Outcome Alignment**  Implement controllers and routing | **Homework: Chapter 6**  **Due 2/19/2023**  **Labs/Homework: Chapter 6**  **Due 2/19/2023**  **Written Test: Chapter 6**  **Due 2/19/2023** |
| Day 26 02/16/23 | **Lecture & Lab Chapter 6**  **General Objective: Working with controllers and routing**  **Specific Objectives:**   * Configure the routing for an ASP.NET Core MVC web app and develop controllers that work with the URLs of the app. * Use areas to organize the folders and files of an app. * Describe how the segments of the default route map to a controller, its action methods, and their parameters. * For a custom route, describe the difference between specifying static and dynamic data. * Distinguish between attribute routing and regular routing. * Describe how you can use areas to organize the folders and files of an app.   **Course Outcome Alignment**  Implement controllers and routing | **Homework: Chapter 6**  **Due 2/19/2023**  **Labs/Homework: Chapter 6**  **Due 2/19/2023**  **Written Test: Chapter 6**  **Due 2/19/2023** |
| Day 27 02/17/23 | * **Lab all period**   **General Objective: Working with controllers and routing**  **Specific Objectives:**   * Configure the routing for an ASP.NET Core MVC web app and develop controllers that work with the URLs of the app. * Use areas to organize the folders and files of an app. * Describe how the segments of the default route map to a controller, its action methods, and their parameters. * For a custom route, describe the difference between specifying static and dynamic data. * Distinguish between attribute routing and regular routing. * Describe how you can use areas to organize the folders and files of an app.   **Course Outcome Alignment**  Implement controllers and routing  **No Class Monday 2/20/2023 Presidents Day** | **Homework: Chapter 6**  **Due 2/19/2023**  **Labs/Homework: Chapter 6**  **Due 2/19/2023**  **Written Test: Chapter 6**  **Due 2/19/2023** |
| Day 28 02/21/23 | **Lecture & Lab Chapter 7**  **General Objective:**  **Work with JavaScript objects, functions, and events**  **Specific Objectives:**   * Develop strongly-typed Razor views that display the elements that are unique for a web page. * Develop Razor layouts that provide the elements that are the same for multiple pages. * Distinguish between a Razor code block and inline expressions, loops, and if statements. * Distinguish between an inline conditional statement and an inline conditional expression. * Describe how an MVC web app typically maps its views to the action methods of its controllers. * Describe how to pass a model to a view. * Distinguish between the @model directive and the @Model property. * Describe how to bind an HTML element to a property of a view's model. * Describe how to bind a <select> element to a list of items. * Describe how to create and apply a layout. * Describe how to code a section in a view and render that section in a layout.   **Course Outcome Alignment**   * Implement controllers and routing | **Homework: Chapter 7**  **Due 3/5/2023**  **Labs/Homework: Chapter 7**  **Due 3/5/2023**  **Written Test: Chapter 7**  **Due 3/5/2023** |
| Day 29 02/22/23 | **Lecture & Lab Chapter 7**  **General Objective:**  **Work with JavaScript objects, functions, and events**  **Specific Objectives:**   * Develop strongly-typed Razor views that display the elements that are unique for a web page. * Develop Razor layouts that provide the elements that are the same for multiple pages. * Distinguish between a Razor code block and inline expressions, loops, and if statements. * Distinguish between an inline conditional statement and an inline conditional expression. * Describe how an MVC web app typically maps its views to the action methods of its controllers. * Describe how to pass a model to a view. * Distinguish between the @model directive and the @Model property. * Describe how to bind an HTML element to a property of a view's model. * Describe how to bind a <select> element to a list of items. * Describe how to create and apply a layout. * Describe how to code a section in a view and render that section in a layout.   **Course Outcome Alignment**  Implement controllers and routing | **Homework: Chapter 7**  **Due 3/5/2023**  **Labs/Homework: Chapter 7**  **Due 3/5/2023**  **Written Test: Chapter 7**  **Due 3/5/2023** |
| Day 30 02/23/23 | **Lecture & Lab Chapter 7**  **General Objective:**  **Work with JavaScript objects, functions, and events**  **Specific Objectives:**   * Develop strongly-typed Razor views that display the elements that are unique for a web page. * Develop Razor layouts that provide the elements that are the same for multiple pages. * Distinguish between a Razor code block and inline expressions, loops, and if statements. * Distinguish between an inline conditional statement and an inline conditional expression. * Describe how an MVC web app typically maps its views to the action methods of its controllers. * Describe how to pass a model to a view. * Distinguish between the @model directive and the @Model property. * Describe how to bind an HTML element to a property of a view's model. * Describe how to bind a <select> element to a list of items. * Describe how to create and apply a layout. * Describe how to code a section in a view and render that section in a layout.   **Course Outcome Alignment**  Implement controllers and routing | **Homework: Chapter 7**  **Due 3/5/2023**  **Labs/Homework: Chapter 7**  **Due 3/5/2023**  **Written Test: Chapter 7**  **Due 3/5/2023** |
| Day 31 02/24/23 | **Lecture & Lab Chapter 8**  **General Objective:**  **Transferring data from controllers**  **Specific Objectives:**   * Use the ViewBag and ViewData properties to transfer data from a controller to a view. * Use a view model to transfer data from a controller to a strongly-typed view. * Develop web apps that redirect and use the TempData property to transfer data from a controller to a controller. * Distinguish between the ViewBag and ViewData properties. * Describe the use of a view model to transfer data from a controller to a view. * Describe how one action method can redirect to another action method. * Describe the use of the PRG pattern to prevent resubmission of POST data. * Distinguish between the ViewData and TempData properties. * Describe the purpose of the Keep() and Peek() methods of the TempData class.   **Course Outcome Alignment**  Implement controllers and routing | **Homework: Chapter 7**  **Due 3/5/2023**  **Labs/Homework: Chapter 7**  **Due 3/5/2023**  **Written Test: Chapter 7**  **Due 3/5/2023**  **Homework: Chapter 8**  **Due 3/5/2023**  **Labs/Homework: Chapter 8**  **Due 3/5/2023**  **Written Test: Chapter 8**  **Due 3/5/2023** |
| Day 32 02/27/23 | **Lecture & Lab Chapter 8**  **General Objective:**  **Transferring data from controllers**  **Specific Objectives:**   * Use the ViewBag and ViewData properties to transfer data from a controller to a view. * Use a view model to transfer data from a controller to a strongly-typed view. * Develop web apps that redirect and use the TempData property to transfer data from a controller to a controller. * Distinguish between the ViewBag and ViewData properties. * Describe the use of a view model to transfer data from a controller to a view. * Describe how one action method can redirect to another action method. * Describe the use of the PRG pattern to prevent resubmission of POST data. * Distinguish between the ViewData and TempData properties. * Describe the purpose of the Keep() and Peek() methods of the TempData class.   **Course Outcome Alignment**  Implement controllers and routing | **Homework: Chapter 7**  **Due 3/5/2023**  **Labs/Homework: Chapter 7**  **Due 3/5/2023**  **Written Test: Chapter 7**  **Due 3/5/2023**  **Homework: Chapter 8**  **Due 3/5/2023**  **Labs/Homework: Chapter 8**  **Due 3/5/2023**  **Written Test: Chapter 8**  **Due 3/5/2023** |
| Day 3302/28/23 | **Lecture & Lab Chapter 8**  **General Objective:**  **Transferring data from controllers**  **Specific Objectives:**   * Use the ViewBag and ViewData properties to transfer data from a controller to a view. * Use a view model to transfer data from a controller to a strongly-typed view. * Develop web apps that redirect and use the TempData property to transfer data from a controller to a controller. * Distinguish between the ViewBag and ViewData properties. * Describe the use of a view model to transfer data from a controller to a view. * Describe how one action method can redirect to another action method. * Describe the use of the PRG pattern to prevent resubmission of POST data. * Distinguish between the ViewData and TempData properties. * Describe the purpose of the Keep() and Peek() methods of the TempData class.   **Course Outcome Alignment**   * Implement controllers and routing | **Homework: Chapter 7**  **Due 3/5/2023**  **Labs/Homework: Chapter 7**  **Due 3/5/2023**  **Written Test: Chapter 7**  **Due 3/5/2023**  **Homework: Chapter 8**  **Due 3/5/2023**  **Labs/Homework: Chapter 8**  **Due 3/5/2023**  **Written Test: Chapter 8**  **Due 3/5/2023** |
| Day 34 03/01/23 | **Lecture & Lab Chapter 8**  **General Objective:**  **Transferring data from controllers**  **Specific Objectives:**   * Use the ViewBag and ViewData properties to transfer data from a controller to a view. * Use a view model to transfer data from a controller to a strongly-typed view. * Develop web apps that redirect and use the TempData property to transfer data from a controller to a controller. * Distinguish between the ViewBag and ViewData properties. * Describe the use of a view model to transfer data from a controller to a view. * Describe how one action method can redirect to another action method. * Describe the use of the PRG pattern to prevent resubmission of POST data. * Distinguish between the ViewData and TempData properties. * Describe the purpose of the Keep() and Peek() methods of the TempData class.   **Course Outcome Alignment**   * Implement controllers and routing | **Homework: Chapter 7**  **Due 3/5/2023**  **Labs/Homework: Chapter 7**  **Due 3/5/2023**  **Written Test: Chapter 7**  **Due 3/5/2023**  **Homework: Chapter 8**  **Due 3/5/2023**  **Labs/Homework: Chapter 8**  **Due 3/5/2023**  **Written Test: Chapter 8**  **Due 3/5/2023** |
| Day 35 03/02/23 | **Test – Chapters 1 – 8**  **General Objective:**  **Transferring data from controllers**  **Specific Objectives:**   * Use the ViewBag and ViewData properties to transfer data from a controller to a view. * Use a view model to transfer data from a controller to a strongly-typed view. * Develop web apps that redirect and use the TempData property to transfer data from a controller to a controller. * Distinguish between the ViewBag and ViewData properties. * Describe the use of a view model to transfer data from a controller to a view. * Describe how one action method can redirect to another action method. * Describe the use of the PRG pattern to prevent resubmission of POST data. * Distinguish between the ViewData and TempData properties. * Describe the purpose of the Keep() and Peek() methods of the TempData class.   **Course Outcome Alignment**  Implement controllers and routing | **Homework: Chapter 7**  **Due 3/5/2023**  **Labs/Homework: Chapter 7**  **Due 3/5/2023**  **Written Test: Chapter 7**  **Due 3/5/2023**  **Homework: Chapter 8**  **Due 3/5/2023**  **Labs/Homework: Chapter 8**  **Due 3/5/2023**  **Written Test: Chapter 8**  **Due 3/5/2023** |
| Day 36 03/03/23 | **Lab all period**  **General Objective:**  **Transferring data from controllers**  **Specific Objectives:**   * Use the ViewBag and ViewData properties to transfer data from a controller to a view. * Use a view model to transfer data from a controller to a strongly-typed view. * Develop web apps that redirect and use the TempData property to transfer data from a controller to a controller. * Distinguish between the ViewBag and ViewData properties. * Describe the use of a view model to transfer data from a controller to a view. * Describe how one action method can redirect to another action method. * Describe the use of the PRG pattern to prevent resubmission of POST data. * Distinguish between the ViewData and TempData properties. * Describe the purpose of the Keep() and Peek() methods of the TempData class.   **Course Outcome Alignment**  Implement controllers and routing | **Homework: Chapter 7**  **Due 3/5/2023**  **Labs/Homework: Chapter 7**  **Due 3/5/2023**  **Written Test: Chapter 7**  **Due 3/5/2023**  **Homework: Chapter 8**  **Due 3/5/2023**  **Labs/Homework: Chapter 8**  **Due 3/5/2023**  **Written Test: Chapter 8**  **Due 3/5/2023** |
| Day 37 03/06/23 | **Lecture & Lab Chapter 9**  **General Objective:**  **Working with sessions and cookies**  **Specific Objectives:**   * Use the ViewBag and ViewData properties to transfer data from a controller to a view. * Use a view model to transfer data from a controller to a strongly-typed view. * Develop web apps that redirect and use the TempData property to transfer data from a controller to a controller. * Distinguish between the ViewBag and ViewData properties. * Describe the use of a view model to transfer data from a controller to a view. * Describe how one action method can redirect to another action method. * Describe the use of the PRG pattern to prevent resubmission of POST data. * Distinguish between the ViewData and TempData properties. * Describe the purpose of the Keep() and Peek() methods of the TempData class.   **Course Outcome Alignment**  Develop sites that utilize Session State and Cookies | **Homework: Chapter 9**  **Due 3/12/2023**  **Labs/Homework: Chapter 9**  **Due 3/12/2023**  **Written Test: Chapter 9**  **Due 3/12/2023** |
| Day 38 03/07/23 | **Lecture & Lab Chapter 9**  **General Objective:**  **Working with sessions and cookies**  **Specific Objectives:**   * Use the ViewBag and ViewData properties to transfer data from a controller to a view. * Use a view model to transfer data from a controller to a strongly-typed view. * Develop web apps that redirect and use the TempData property to transfer data from a controller to a controller. * Distinguish between the ViewBag and ViewData properties. * Describe the use of a view model to transfer data from a controller to a view. * Describe how one action method can redirect to another action method. * Describe the use of the PRG pattern to prevent resubmission of POST data. * Distinguish between the ViewData and TempData properties. * Describe the purpose of the Keep() and Peek() methods of the TempData class.   **Course Outcome Alignment**  Develop sites that utilize Session State and Cookies | **Homework: Chapter 9**  **Due 3/12/2023**  **Labs/Homework: Chapter 9**  **Due 3/12/2023**  **Written Test: Chapter 9**  **Due 3/12/2023** |
| Day 39 03/08/23 | **Lecture & Lab Chapter 9**  **General Objective:**  **Working with sessions and cookies**  **Specific Objectives:**   * Use the ViewBag and ViewData properties to transfer data from a controller to a view. * Use a view model to transfer data from a controller to a strongly-typed view. * Develop web apps that redirect and use the TempData property to transfer data from a controller to a controller. * Distinguish between the ViewBag and ViewData properties. * Describe the use of a view model to transfer data from a controller to a view. * Describe how one action method can redirect to another action method. * Describe the use of the PRG pattern to prevent resubmission of POST data. * Distinguish between the ViewData and TempData properties. * Describe the purpose of the Keep() and Peek() methods of the TempData class.   **Course Outcome Alignment**   * Develop sites that utilize Session State and Cookies | **Homework: Chapter 9**  **Due 3/12/2023**  **Labs/Homework: Chapter 9**  **Due 3/12/2023**  **Written Test: Chapter 9**  **Due 3/12/2023** |
| Day 40 03/09/23 | **Lecture & Lab Chapter 10**  **General Objective:**  **Working with model binding**  **Specific Objectives:**   * Use model binding with primitive and complex types.Knowledge * Describe how to use controller properties to retrieve primitive types from GET and POST requests. * List the order of places where MVC looks for data when it's binding a parameter. * Describe how to use model binding to retrieve primitive types from GET and POST requests. * Describe how to use model binding to retrieve complex types from POST requests. * Describe how to use the name and value attributes of a submit button to POST data. * Describe how to post an array to an action method. * Describe the use of attributes to control the source of bound values.   **Course Outcome Alignment**   * Develop sites that utilize Session State and Cookies | **Homework: Chapter 9**  **Due 3/12/2023**  **Labs/Homework: Chapter 9**  **Due 3/12/2023**  **Written Test: Chapter 9**  **Due 3/12/2023**  **Homework: Chapter 10**  **Due 3/19/2023**  **Labs/Homework: Chapter 10**  **Due 3/19/2023**  **Written Test: Chapter 10**  **Due 3/19/2023** |

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| Day 41 03/10/23 Day 42 03/13/23 Day 43 03/14/23 Day 44 3/15/2023 Day 45 03/16/23 | | **Lab all period**  **General Objective:**  **Working with model binding**  **Specific Objectives:**   * Use model binding with primitive and complex types.Knowledge * Describe how to use controller properties to retrieve primitive types from GET and POST requests. * List the order of places where MVC looks for data when it's binding a parameter. * Describe how to use model binding to retrieve primitive types from GET and POST requests. * Describe how to use model binding to retrieve complex types from POST requests. * Describe how to use the name and value attributes of a submit button to POST data. * Describe how to post an array to an action method. * Describe the use of attributes to control the source of bound values.   **Course Outcome Alignment**  Develop sites that utilize Session State and Cookies  **Lecture & Lab Chapter 10**  **General Objective:**  **Working with model binding**  **Specific Objectives:**   * Use model binding with primitive and complex types.Knowledge * Describe how to use controller properties to retrieve primitive types from GET and POST requests. * List the order of places where MVC looks for data when it's binding a parameter. * Describe how to use model binding to retrieve primitive types from GET and POST requests. * Describe how to use model binding to retrieve complex types from POST requests. * Describe how to use the name and value attributes of a submit button to POST data. * Describe how to post an array to an action method. * Describe the use of attributes to control the source of bound values.   **Course Outcome Alignment**  Develop sites that utilize Session State and Cookies  **Lecture & Lab Chapter 10**  **General Objective:**  **Working with model binding**  **Specific Objectives:**   * Use model binding with primitive and complex types.Knowledge * Describe how to use controller properties to retrieve primitive types from GET and POST requests. * List the order of places where MVC looks for data when it's binding a parameter. * Describe how to use model binding to retrieve primitive types from GET and POST requests. * Describe how to use model binding to retrieve complex types from POST requests. * Describe how to use the name and value attributes of a submit button to POST data. * Describe how to post an array to an action method. * Describe the use of attributes to control the source of bound values.   **Course Outcome Alignment**  Develop sites that utilize Session State and Cookies  **Lecture & Lab Chapter 10**  **General Objective:**  **Working with model binding**  **Specific Objectives:**   * Use model binding with primitive and complex types.Knowledge * Describe how to use controller properties to retrieve primitive types from GET and POST requests. * List the order of places where MVC looks for data when it's binding a parameter. * Describe how to use model binding to retrieve primitive types from GET and POST requests. * Describe how to use model binding to retrieve complex types from POST requests. * Describe how to use the name and value attributes of a submit button to POST data. * Describe how to post an array to an action method. * Describe the use of attributes to control the source of bound values.   **Course Outcome Alignment**  Develop sites that utilize Session State and Cookies  **Lecture & Lab Chapter 10**  **General Objective:**  **Lecture & Lab Chapter 10**  **General Objective:**  **Working with model binding**  **Specific Objectives:**   * Use model binding with primitive and complex types.Knowledge * Describe how to use controller properties to retrieve primitive types from GET and POST requests. * List the order of places where MVC looks for data when it's binding a parameter. * Describe how to use model binding to retrieve primitive types from GET and POST requests. * Describe how to use model binding to retrieve complex types from POST requests. * Describe how to use the name and value attributes of a submit button to POST data. * Describe how to post an array to an action method. * Describe the use of attributes to control the source of bound values.   **Course Outcome Alignment**   * Develop sites that utilize Session State and Cookies | | **Homework: Chapter 9**  **Due 3/12/2023**  **Labs/Homework: Chapter 9**  **Due 3/12/2023**  **Written Test: Chapter 9**  **Due 3/12/2023**  **Homework: Chapter 10**  **Due 3/19/2023**  **Labs/Homework: Chapter 10**  **Due 3/19/2023**  **Written Test: Chapter 10**  **Due 3/19/2023**  **Homework: Chapter 10**  **Due 3/19/2023**  **Labs/Homework: Chapter 10**  **Due 3/19/2023**  **Written Test: Chapter 10**  **Due 3/19/2023**  **Homework: Chapter 10**  **Due 3/19/2023**  **Labs/Homework: Chapter 10**  **Due 3/19/2023**  **Written Test: Chapter 10**  **Due 3/19/2023**  **Homework: Chapter 10**  **Due 3/19/2023**  **Labs/Homework: Chapter 10**  **Due 3/19/2023**  **Written Test: Chapter 10**  **Due 3/19/2023**  **Homework: Chapter 10**  **Due 3/19/2023**  **Labs/Homework: Chapter 10**  **Due 3/19/2023**  **Written Test: Chapter 10**  **Due 3/19/2023** | |
| Day 46 03/17/23 | | **Lab all period**  **General Objective:**  **Working with model binding**  **Specific Objectives:**   * Use model binding with primitive and complex types.Knowledge * Describe how to use controller properties to retrieve primitive types from GET and POST requests. * List the order of places where MVC looks for data when it's binding a parameter. * Describe how to use model binding to retrieve primitive types from GET and POST requests. * Describe how to use model binding to retrieve complex types from POST requests. * Describe how to use the name and value attributes of a submit button to POST data. * Describe how to post an array to an action method. * Describe the use of attributes to control the source of bound values.   **Course Outcome Alignment**  Develop sites that utilize Session State and Cookies | | **Homework: Chapter 10**  **Due 3/19/2023**  **Labs/Homework: Chapter 10**  **Due 3/19/2023**  **Written Test: Chapter 10**  **Due 3/19/2023** | |
| Day 47 03/20/23 | | **Test Chapters 1 - 10**  **General Objective:**  **Working with model binding**  **Specific Objectives:**   * Use model binding with primitive and complex types.Knowledge * Describe how to use controller properties to retrieve primitive types from GET and POST requests. * List the order of places where MVC looks for data when it's binding a parameter. * Describe how to use model binding to retrieve primitive types from GET and POST requests. * Describe how to use model binding to retrieve complex types from POST requests. * Describe how to use the name and value attributes of a submit button to POST data. * Describe how to post an array to an action method. * Describe the use of attributes to control the source of bound values.   **Course Outcome Alignment**  Develop sites that utilize Session State and Cookies | |  | |
| Day 48 03/21/23 | | **Lecture & Lab Chapter 11**  **General Objective:**  **Working with data validation**  **Specific Objectives:**   * Describe the default data validation provided by model binding. * Describe the use of the IsValid property of a controller's ModelState property. * Describe the use of a controller's ModelState property for checking the validation state of a control and setting a custom error message. * Describe the use of model-level and property-level validation messages. * Describe the use of unobtrusive client-side data validation. * Describe the process of customizing server-side data validation. * Describe the process of customizing client-side data validation.   **Course Outcome Alignment**  Authenticate and Authorize users | | **Homework: Chapter 11**  **Due 4/2/2023**  **Labs/Homework: Chapter 11**  **Due 4/2/2023**  **Written Test: Chapter 11**  **Due 4/2/2023** |
| Day 49 03/22/23 | | **Lecture & Lab Chapter 11**  **General Objective:**  **Working with data validation**  **Specific Objectives:**   * Describe the default data validation provided by model binding. * Describe the use of the IsValid property of a controller's ModelState property. * Describe the use of a controller's ModelState property for checking the validation state of a control and setting a custom error message. * Describe the use of model-level and property-level validation messages. * Describe the use of unobtrusive client-side data validation. * Describe the process of customizing server-side data validation. * Describe the process of customizing client-side data validation.   **Course Outcome Alignment**  Authenticate and Authorize users | | **Homework: Chapter 11**  **Due 4/2/2023**  **Labs/Homework: Chapter 11**  **Due 4/2/2023**  **Written Test: Chapter 11**  **Due 4/2/2023** |
| Day 50 03/23/23 | | **Lecture & Lab Chapter 11**  **General Objective:**  **Working with data validation**  **Specific Objectives:**   * Describe the default data validation provided by model binding. * Describe the use of the IsValid property of a controller's ModelState property. * Describe the use of a controller's ModelState property for checking the validation state of a control and setting a custom error message. * Describe the use of model-level and property-level validation messages. * Describe the use of unobtrusive client-side data validation. * Describe the process of customizing server-side data validation. * Describe the process of customizing client-side data validation.   **Course Outcome Alignment**  Authenticate and Authorize users | | **Homework: Chapter 11**  **Due 4/2/2023**  **Labs/Homework: Chapter 11**  **Due 4/2/2023**  **Written Test: Chapter 11**  **Due 4/2/2023** |
| Day 51 03/24/23 | | **Lab all period**  **General Objective:**  **Working with data validation**  **Specific Objectives:**   * Describe the default data validation provided by model binding. * Describe the use of the IsValid property of a controller's ModelState property. * Describe the use of a controller's ModelState property for checking the validation state of a control and setting a custom error message. * Describe the use of model-level and property-level validation messages. * Describe the use of unobtrusive client-side data validation. * Describe the process of customizing server-side data validation. * Describe the process of customizing client-side data validation.   **Course Outcome Alignment**  Authenticate and Authorize users | | **Homework: Chapter 11**  **Due 4/2/2023**  **Labs/Homework: Chapter 11**  **Due 4/2/2023**  **Written Test: Chapter 11**  **Due 4/2/2023** |
| Day 52 03/27/23 | | **Lecture & Lab Chapter 12**  **General Objective:**  **Working with data validation**  **Specific Objectives:**   * Develop the DB context and entity classes that define the data for an app and create a database and tables that map to those classes. * Given an existing database, generate the DB context and entity classes that map to that database and its tables. * Distinguish between Code First development and Database First development. * Describe the purpose of a database (DB) context class and entity classes. * Describe the use of EF Core commands to work with a database. * Describe the use of partial classes to modify entity classes that are generated from database tables. * Describe the use of EF Core to add, modify, and delete rows in a database table.   **Course Outcome Alignment**  Authenticate and Authorize users/work with DBs | | **Homework: Chapter 11**  **Due 4/2/2023**  **Labs/Homework: Chapter 11**  **Due 4/2/2023**  **Written Test: Chapter 11**  **Due 4/2/2023**  **Homework: Chapter 12**  **Due 4/2/2023**  **Labs/Homework: Chapter 12**  **Due 4/2/2023**  **Written Test: Chapter 12**  **Due 4/2/2023** |
| Day 53 03/28/23 | | **Lecture & Lab Chapter 12**  **General Objective:**  **Working with data validation**  **Specific Objectives:**   * Develop the DB context and entity classes that define the data for an app and create a database and tables that map to those classes. * Given an existing database, generate the DB context and entity classes that map to that database and its tables. * Distinguish between Code First development and Database First development. * Describe the purpose of a database (DB) context class and entity classes. * Describe the use of EF Core commands to work with a database. * Describe the use of partial classes to modify entity classes that are generated from database tables. * Describe the use of EF Core to add, modify, and delete rows in a database table.   **Course Outcome Alignment**  Authenticate and Authorize users/work with DBs | | **Homework: Chapter 11**  **Due 4/2/2023**  **Labs/Homework: Chapter 11**  **Due 4/2/2023**  **Written Test: Chapter 11**  **Due 4/2/2023**  **Homework: Chapter 12**  **Due 4/2/2023**  **Labs/Homework: Chapter 12**  **Due 4/2/2023**  **Written Test: Chapter 12**  **Due 4/2/2023** |
| Day 54 03/29/23 | | **Lecture & Lab Chapter 12**  **General Objective:**  **Working with data validation**  **Specific Objectives:**   * Develop the DB context and entity classes that define the data for an app and create a database and tables that map to those classes. * Given an existing database, generate the DB context and entity classes that map to that database and its tables. * Distinguish between Code First development and Database First development. * Describe the purpose of a database (DB) context class and entity classes. * Describe the use of EF Core commands to work with a database. * Describe the use of partial classes to modify entity classes that are generated from database tables. * Describe the use of EF Core to add, modify, and delete rows in a database table.   **Course Outcome Alignment**  Authenticate and Authorize users/work with DBs | | **Homework: Chapter 11**  **Due 4/2/2023**  **Labs/Homework: Chapter 11**  **Due 4/2/2023**  **Written Test: Chapter 11**  **Due 4/2/2023**  **Homework: Chapter 12**  **Due 4/2/2023**  **Labs/Homework: Chapter 12**  **Due 4/2/2023**  **Written Test: Chapter 12**  **Due 4/2/2023** |
| Day 5503/30/23 | | **Test Chapters 11 - 12**  **General Objective:**  **Working with data validation**  **Specific Objectives:**   * Develop the DB context and entity classes that define the data for an app and create a database and tables that map to those classes. * Given an existing database, generate the DB context and entity classes that map to that database and its tables. * Distinguish between Code First development and Database First development. * Describe the purpose of a database (DB) context class and entity classes. * Describe the use of EF Core commands to work with a database. * Describe the use of partial classes to modify entity classes that are generated from database tables. * Describe the use of EF Core to add, modify, and delete rows in a database table.   **Course Outcome Alignment**  Authenticate and Authorize users/work with DBs | | **Homework: Chapter 11**  **Due 4/2/2023**  **Labs/Homework: Chapter 11**  **Due 4/2/2023**  **Written Test: Chapter 11**  **Due 4/2/2023**  **Homework: Chapter 12**  **Due 4/2/2023**  **Labs/Homework: Chapter 12**  **Due 4/2/2023**  **Written Test: Chapter 12**  **Due 4/2/2023** |
| Day 5603/31/23 | | **Lab all period**  **General Objective:**  **Working with data validation**  **Specific Objectives:**   * Develop the DB context and entity classes that define the data for an app and create a database and tables that map to those classes. * Given an existing database, generate the DB context and entity classes that map to that database and its tables. * Distinguish between Code First development and Database First development. * Describe the purpose of a database (DB) context class and entity classes. * Describe the use of EF Core commands to work with a database. * Describe the use of partial classes to modify entity classes that are generated from database tables. * Describe the use of EF Core to add, modify, and delete rows in a database table.   **Course Outcome Alignment**  Authenticate and Authorize users/work with DBs | | **Homework: Chapter 11**  **Due 4/2/2023**  **Labs/Homework: Chapter 11**  **Due 4/2/2023**  **Written Test: Chapter 11**  **Due 4/2/2023**  **Homework: Chapter 12**  **Due 4/2/2023**  **Labs/Homework: Chapter 12**  **Due 4/2/2023**  **Written Test: Chapter 12**  **Due 4/2/2023** |

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| Day 5704/03/23 | **Lecture & Lab Chapter 13**  **General Objective:**  **Working with data validation/database example**  **Specific Objectives:**   * Describe why it's generally considered a good practice to have a 'fat' model and 'skinny' controllers. * Describe how the Author Catalog page provides for paging and sorting. * Describe how the Book Catalog page provides for paging, sorting, and filtering. * Describe how the Cart page uses session state and cookies to store its data. * Describe how the Manage Books tab of the Admin page provides a feature for searching for books that’s also used by the Manage Genres tab.   **Course Outcome Alignment**  Authenticate and Authorize users/work with DBs |  |
| Day 5804/04/23 | **Lecture & Lab Chapter 13**  **General Objective:**  **Working with data validation/database example**  **Specific Objectives:**   * Describe why it's generally considered a good practice to have a 'fat' model and 'skinny' controllers. * Describe how the Author Catalog page provides for paging and sorting. * Describe how the Book Catalog page provides for paging, sorting, and filtering. * Describe how the Cart page uses session state and cookies to store its data. * Describe how the Manage Books tab of the Admin page provides a feature for searching for books that’s also used by the Manage Genres tab.   **Course Outcome Alignment**  Authenticate and Authorize users/work with DBs |  |
| Day 59 04/05/23 | **Lecture & Lab Chapter 14**  **General Objective:**  **Working with unit testing**   * Use dependency injection (DI) to make the code for an ASP.NET Core web app more flexible and easier to change. * Use unit testing to automate the testing of a web app. * Describe how to configure a web app for dependency injection. * List and describe the three dependency life cycles. * Distinguish between controllers that are tightly coupled with EF Core and controllers that are loosely coupled with EF Core. * Explain how dependency chaining works with repository objects and unit of work objects. * Describe the use of a fake object to test methods that have dependencies. * Describe the use of Moq to create fake objects.   **Course Outcome Alignment**  Test and Debug a web application | **Homework: Chapter 14**  **Due 4/16/2023**  **Labs/Homework: Chapter 14**  **Due 4/16/2023**  **Written Test: Chapter 14**  **Due 4/16/2023** |
| Day 60 04/06/23 | **Lab all period**  **General Objective:**  **Working with unit testing**   * Use dependency injection (DI) to make the code for an ASP.NET Core web app more flexible and easier to change. * Use unit testing to automate the testing of a web app. * Describe how to configure a web app for dependency injection. * List and describe the three dependency life cycles. * Distinguish between controllers that are tightly coupled with EF Core and controllers that are loosely coupled with EF Core. * Explain how dependency chaining works with repository objects and unit of work objects. * Describe the use of a fake object to test methods that have dependencies. * Describe the use of Moq to create fake objects.   **Course Outcome Alignment**  Test and Debug a web application  **NO CLASS F 4/7/2023 Good Friday** | **Homework: Chapter 14**  **Due 4/16/2023**  **Labs/Homework: Chapter 14**  **Due 4/16/2023**  **Written Test: Chapter 14**  **Due 4/16/2023** |
| Day 6104/10/23 | **Lecture & Lab Chapter 14**  **General Objective:**  **Working with unit testing**   * Use dependency injection (DI) to make the code for an ASP.NET Core web app more flexible and easier to change. * Use unit testing to automate the testing of a web app. * Describe how to configure a web app for dependency injection. * List and describe the three dependency life cycles. * Distinguish between controllers that are tightly coupled with EF Core and controllers that are loosely coupled with EF Core. * Explain how dependency chaining works with repository objects and unit of work objects. * Describe the use of a fake object to test methods that have dependencies. * Describe the use of Moq to create fake objects.   **Course Outcome Alignment**  Test and Debug a web application | **Homework: Chapter 14**  **Due 4/16/2023**  **Labs/Homework: Chapter 14**  **Due 4/16/2023**  **Written Test: Chapter 14**  **Due 4/16/2023** |
| Day 62 04/11/23 | **Lecture & Lab Chapter 14**  **General Objective:**  **Working with unit testing**   * Use dependency injection (DI) to make the code for an ASP.NET Core web app more flexible and easier to change. * Use unit testing to automate the testing of a web app. * Describe how to configure a web app for dependency injection. * List and describe the three dependency life cycles. * Distinguish between controllers that are tightly coupled with EF Core and controllers that are loosely coupled with EF Core. * Explain how dependency chaining works with repository objects and unit of work objects. * Describe the use of a fake object to test methods that have dependencies. * Describe the use of Moq to create fake objects.   **Course Outcome Alignment**  Test and Debug a web application | **Homework: Chapter 14**  **Due 4/16/2023**  **Labs/Homework: Chapter 14**  **Due 4/16/2023**  **Written Test: Chapter 14**  **Due 4/16/2023** |
| Day 63 04/12/23 | **Lecture & Lab Chapter 15**  **General Objective:**  **Working with unit testing**   * Use dependency injection (DI) to make the code for an ASP.NET Core web app more flexible and easier to change. * Use unit testing to automate the testing of a web app. * Describe how to configure a web app for dependency injection. * List and describe the three dependency life cycles. * Distinguish between controllers that are tightly coupled with EF Core and controllers that are loosely coupled with EF Core. * Explain how dependency chaining works with repository objects and unit of work objects. * Describe the use of a fake object to test methods that have dependencies. * Describe the use of Moq to create fake objects.   **Course Outcome Alignment**  Test and Debug a web application | **Homework: Chapter 14**  **Due 4/16/2023**  **Labs/Homework: Chapter 14**  **Due 4/16/2023**  **Written Test: Chapter 14**  **Due 4/16/2023**  **Homework: Chapter 15**  **Due 4/23/2023**  **Labs/Homework: Chapter 15**  **Due 4/23/2023**  **Written Test: Chapter 15**  **Due 4/23/2023** |
| Day 64 04/13/23 | **Lecture & Lab Chapter 15**  **General Objective:**  **Working with unit testing**   * Use dependency injection (DI) to make the code for an ASP.NET Core web app more flexible and easier to change. * Use unit testing to automate the testing of a web app. * Describe how to configure a web app for dependency injection. * List and describe the three dependency life cycles. * Distinguish between controllers that are tightly coupled with EF Core and controllers that are loosely coupled with EF Core. * Explain how dependency chaining works with repository objects and unit of work objects. * Describe the use of a fake object to test methods that have dependencies. * Describe the use of Moq to create fake objects.   **Course Outcome Alignment**  Test and Debug a web application | **Homework: Chapter 14**  **Due 4/16/2023**  **Labs/Homework: Chapter 14**  **Due 4/16/2023**  **Written Test: Chapter 14**  **Due 4/16/2023**  **Homework: Chapter 15**  **Due 4/23/2023**  **Labs/Homework: Chapter 15**  **Due 4/23/2023**  **Written Test: Chapter 15**  **Due 4/23/2023** |
| Day 65 04/14/23 | **Lab all period**  **General Objective:**  **Working with unit testing**   * Use dependency injection (DI) to make the code for an ASP.NET Core web app more flexible and easier to change. * Use unit testing to automate the testing of a web app. * Describe how to configure a web app for dependency injection. * List and describe the three dependency life cycles. * Distinguish between controllers that are tightly coupled with EF Core and controllers that are loosely coupled with EF Core. * Explain how dependency chaining works with repository objects and unit of work objects. * Describe the use of a fake object to test methods that have dependencies. * Describe the use of Moq to create fake objects.   **Course Outcome Alignment**  Test and Debug a web application | **Homework: Chapter 14**  **Due 4/16/2023**  **Labs/Homework: Chapter 14**  **Due 4/16/2023**  **Written Test: Chapter 14**  **Due 4/16/2023**  **Homework: Chapter 15**  **Due 4/23/2023**  **Labs/Homework: Chapter 15**  **Due 4/23/2023**  **Written Test: Chapter 15**  **Due 4/23/2023** |
| Day 66 04/17/23 | **Lecture & Lab Chapter 16**  **General Objective:**  **Authentication and authorization**   * Restrict access to some or all pages of a web app. * Allow users who have registered and logged in to access the restricted pages that they are authorized to access. * Distinguish between authentication and authorization. * Describe how individual user account authentication works. * Describe how to use authorization attributes to restrict access to controllers and actions. * Describe how to use the UserManager<T> class to create, update, and delete users. * Describe how to use the SignInManager<T> class to log users in and out. * Describe how to use the RoleManager<T> and UserManager<T> classes to work with roles.   **Course Outcome Alignment**  Authenticate and Authorize users | **Homework: Chapter 15**  **Due 4/23/2023**  **Labs/Homework: Chapter 15**  **Due 4/23/2023**  **Written Test: Chapter 15**  **Due 4/23/2023**  **Homework: Chapter 16**  **Due 4/30/2023**  **Labs/Homework: Chapter 16**  **Due 4/30/2023**  **Written Test: Chapter 16**  **Due 4/30/2023** |
| Day 67 04/18/23 | **Lecture & Lab Chapter 16**  **General Objective:**  **Authentication and authorization**   * Restrict access to some or all pages of a web app. * Allow users who have registered and logged in to access the restricted pages that they are authorized to access. * Distinguish between authentication and authorization. * Describe how individual user account authentication works. * Describe how to use authorization attributes to restrict access to controllers and actions. * Describe how to use the UserManager<T> class to create, update, and delete users. * Describe how to use the SignInManager<T> class to log users in and out. * Describe how to use the RoleManager<T> and UserManager<T> classes to work with roles.   **Course Outcome Alignment**  Authenticate and Authorize users | **Homework: Chapter 15**  **Due 4/23/2023**  **Labs/Homework: Chapter 15**  **Due 4/23/2023**  **Written Test: Chapter 15**  **Due 4/23/2023**  **Homework: Chapter 16**  **Due 4/30/2023**  **Labs/Homework: Chapter 16**  **Due 4/30/2023**  **Written Test: Chapter 16**  **Due 4/30/2023** |
| Day 68 04/19/23 | **Lecture & Lab Chapter 16**  **General Objective:**  **Authentication and authorization**   * Restrict access to some or all pages of a web app. * Allow users who have registered and logged in to access the restricted pages that they are authorized to access. * Distinguish between authentication and authorization. * Describe how individual user account authentication works. * Describe how to use authorization attributes to restrict access to controllers and actions. * Describe how to use the UserManager<T> class to create, update, and delete users. * Describe how to use the SignInManager<T> class to log users in and out. * Describe how to use the RoleManager<T> and UserManager<T> classes to work with roles.   **Course Outcome Alignment**  Authenticate and Authorize users | **Homework: Chapter 15**  **Due 4/23/2023**  **Labs/Homework: Chapter 15**  **Due 4/23/2023**  **Written Test: Chapter 15**  **Due 4/23/2023**  **Homework: Chapter 16**  **Due 4/30/2023**  **Labs/Homework: Chapter 16**  **Due 4/30/2023**  **Written Test: Chapter 16**  **Due 4/30/2023** |
| Day 69 04/20/23 | **Lecture & Lab Chapter 16**  **General Objective:**  **Authentication and authorization**   * Restrict access to some or all pages of a web app. * Allow users who have registered and logged in to access the restricted pages that they are authorized to access. * Distinguish between authentication and authorization. * Describe how individual user account authentication works. * Describe how to use authorization attributes to restrict access to controllers and actions. * Describe how to use the UserManager<T> class to create, update, and delete users. * Describe how to use the SignInManager<T> class to log users in and out. * Describe how to use the RoleManager<T> and UserManager<T> classes to work with roles.   **Course Outcome Alignment**  Authenticate and Authorize users | **Homework: Chapter 15**  **Due 4/23/2023**  **Labs/Homework: Chapter 15**  **Due 4/23/2023**  **Written Test: Chapter 15**  **Due 4/23/2023**  **Homework: Chapter 16**  **Due 4/30/2023**  **Labs/Homework: Chapter 16**  **Due 4/30/2023**  **Written Test: Chapter 16**  **Due 4/30/2023** |

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| Day 7004/21/23 | **Lecture & Lab Chapter 16**  **General Objective:**  **Authentication and authorization**   * Restrict access to some or all pages of a web app. * Allow users who have registered and logged in to access the restricted pages that they are authorized to access. * Distinguish between authentication and authorization. * Describe how individual user account authentication works. * Describe how to use authorization attributes to restrict access to controllers and actions. * Describe how to use the UserManager<T> class to create, update, and delete users. * Describe how to use the SignInManager<T> class to log users in and out. * Describe how to use the RoleManager<T> and UserManager<T> classes to work with roles.   **Course Outcome Alignment**  Authenticate and Authorize users | **Homework: Chapter 15**  **Due 4/23/2023**  **Labs/Homework: Chapter 15**  **Due 4/23/2023**  **Written Test: Chapter 15**  **Due 4/23/2023**  **Homework: Chapter 16**  **Due 4/30/2023**  **Labs/Homework: Chapter 16**  **Due 4/30/2023**  **Written Test: Chapter 16**  **Due 4/30/2023** |
| Day 71 04/24/23 | **Lecture & Lab Chapter 16**  **General Objective:**  **Authentication and authorization**   * Restrict access to some or all pages of a web app. * Allow users who have registered and logged in to access the restricted pages that they are authorized to access. * Distinguish between authentication and authorization. * Describe how individual user account authentication works. * Describe how to use authorization attributes to restrict access to controllers and actions. * Describe how to use the UserManager<T> class to create, update, and delete users. * Describe how to use the SignInManager<T> class to log users in and out. * Describe how to use the RoleManager<T> and UserManager<T> classes to work with roles.   **Course Outcome Alignment**  Authenticate and Authorize users | **Homework: Chapter 15**  **Due 4/23/2023**  **Labs/Homework: Chapter 15**  **Due 4/23/2023**  **Written Test: Chapter 15**  **Due 4/23/2023**  **Homework: Chapter 16**  **Due 4/30/2023**  **Labs/Homework: Chapter 16**  **Due 4/30/2023**  **Written Test: Chapter 16**  **Due 4/30/2023** |
| Day 72 04/25/23 | **Lecture & Lab Chapter 16**  **General Objective:**  **Authentication and authorization**   * Restrict access to some or all pages of a web app. * Allow users who have registered and logged in to access the restricted pages that they are authorized to access. * Distinguish between authentication and authorization. * Describe how individual user account authentication works. * Describe how to use authorization attributes to restrict access to controllers and actions. * Describe how to use the UserManager<T> class to create, update, and delete users. * Describe how to use the SignInManager<T> class to log users in and out. * Describe how to use the RoleManager<T> and UserManager<T> classes to work with roles.   **Course Outcome Alignment**  Authenticate and Authorize users | **Homework: Chapter 16**  **Due 4/30/2023**  **Labs/Homework: Chapter 16**  **Due 4/30/2023**  **Written Test: Chapter 16**  **Due 4/30/2023** |
| Day 73 04/26/23 | **Lecture & Lab Chapter 16**  **General Objective:**  **Authentication and authorization**   * Restrict access to some or all pages of a web app. * Allow users who have registered and logged in to access the restricted pages that they are authorized to access. * Distinguish between authentication and authorization. * Describe how individual user account authentication works. * Describe how to use authorization attributes to restrict access to controllers and actions. * Describe how to use the UserManager<T> class to create, update, and delete users. * Describe how to use the SignInManager<T> class to log users in and out. * Describe how to use the RoleManager<T> and UserManager<T> classes to work with roles.   **Course Outcome Alignment**  Authenticate and Authorize users | **Homework: Chapter 16**  **Due 4/30/2023**  **Labs/Homework: Chapter 16**  **Due 4/30/2023**  **Written Test: Chapter 16**  **Due 4/30/2023** |
| Day 74 04/27/23 | **Lecture & Lab Chapter 16**  **General Objective:**  **Authentication and authorization**   * Restrict access to some or all pages of a web app. * Allow users who have registered and logged in to access the restricted pages that they are authorized to access. * Distinguish between authentication and authorization. * Describe how individual user account authentication works. * Describe how to use authorization attributes to restrict access to controllers and actions. * Describe how to use the UserManager<T> class to create, update, and delete users. * Describe how to use the SignInManager<T> class to log users in and out. * Describe how to use the RoleManager<T> and UserManager<T> classes to work with roles.   **Course Outcome Alignment**  Authenticate and Authorize users | **Homework: Chapter 16**  **Due 4/30/2023**  **Labs/Homework: Chapter 16**  **Due 4/30/2023**  **Written Test: Chapter 16**  **Due 4/30/2023** |
| Day 75 04/28/23 | **Update electronic portfolio** | **Homework: Chapter 16**  **Due 4/30/2023**  **Labs/Homework: Chapter 16**  **Due 4/30/2023**  **Written Test: Chapter 16**  **Due 4/30/2023** |
| Day 76 05/01/23 | **Update electronic portfolio** | **E-Portfolio: Due 5/5/23** |
| Day 77 05/02/23 | **Update electronic portfolio** | **E-Portfolio: Due 5/5/23** |
| Day 78 05/03/23 | **Update electronic portfolio** | **E-Portfolio: Due 5/5/23** |
| Day 79 05/04/23 | **Update electronic portfolio** | **E-Portfolio: Due 5/5/23** |
| Day 80 05/05/23 | **Update electronic portfolio** | **E-Portfolio: Due 5/5/23** |