



## **Practical 07 – MVC 1\*\***

**Out of 20 Marks**

**DUE: 2022-05-06 before 23:59**

**\*\* GENERAL NOTE ON NUMBERING:**

There is no practical 6. The number sequencing has however been kept helping to keep track of all of the activities done versus not done. Please note that the study guide does indicate that the schedule in the assessment plan is an estimate.

### **IMPORTANT NOTES:**

- This is an individual micro practical.
- Practical work is based on assessment objectives.
- If an objective has been achieved a mark will be allocated.
- All micro practical activities conceptually (based on skills) feed into one or more homework assignments.
- By completing the practical work you will be learning the necessary skills to complete homework assignments.

### **INSTRUCTIONS:**

- For this practical you will receive specific instructions that you need to follow.
- When uploading the practical homework, zip the entire project and then please upload it using the following naming convention. **Source Code:** Zip your source code files together and name it **uXXXXXXXX\_PR07.zip**, where the XXXXXXXX is your student number, e.g., u12345678\_PR07.zip.

### **SUBMISSION DEADLINE: 2022-05-06 before 23:59**

- There shall be no extensions to the deadline.
- If practical work submissions are uploaded too late, then upload errors WILL happen.
- Do not wait to the last minute to complete the practical assignments.
- Start working on the practical work as soon as it is posted.
- Verify the completeness of your upload.
- There are multiple upload opportunities enabled if your upload is incomplete.
- Incomplete uploads will be considered unsubmitted work.
- E-mail submissions WILL NOT be accepted.
- Late submissions WILL NOT be accepted.
- **NO EXCEPTIONS WILL BE MADE FOR ANYONE.**

## 1. TOOLS, SKILLS, KNOWLEDGE REQUIRED:

- Students will have to make use of knowledge from the MVC 1 lecture which referred to the following concepts
  - Using simple lists in C#
  - Creating a Model
  - Assigning decorators to Models
  - Using the Model correctly in the view.

## 2. STANDARD REQUIREMENTS:

The following is a list of mandatory requirements.

This program should create a simple “friends” list to be displayed in a single view.

- (1) Create a new MVC project.
- (2) Add a Model called FriendModel
- (3) Complete the model to indicate the following:
  - a. Name (String)
  - b. Surname (String)
  - c. E-mail (String)
  - d. Birthday date (DateTime)
- (4) The Model should make use of decorators to ensure that the data is displayed as aesthetically pleasing text and not the variable names used in the Model.
- (5) Create a controller named FriendController.
- (6) Add the FriendModel to the controller
- (7) Add a list of friend details as indicated above. Refer to the lecture session details to do so. List at least 7 people or “friends”.... This may be fictitious details if you so choose.
- (8) Add a new View (List) that uses the FriendController.
- (9) Remove the unnecessary Razor code or “Details, Edit, Delete” from the generated View.
- (10) Modify the layout page to link the new View to the Navbar.

**After completing the aforementioned, copy and paste the layout page, the model, the view, and the controller into a folder, zip the 4 pages and upload to ClickUP. The entire project will not be required for this activity.**

## 3. RESEARCH / READING REQUIREMENTS

The date should not be displayed as DateTime. It should only be displayed as date.

<https://www.c-sharpcorner.com/UploadFile/4b0136/perform-data-annotation-in-Asp-Net-mvc-5/>



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<b>Checklist</b>	<b>MAX</b>
<b>1. Requirement 1</b> – FriendModel	<b>7</b>
<b>2. Requirement 2</b> – FriendController	<b>7</b>
<b>3. Requirement 3</b> – Friend View (Index.cshtml)	<b>3</b>
<b>4. Requirement 4</b> – Updated Layout and NavBar	<b>3</b>
<b>TOTAL MARK ALLOCATION</b>	<b>20</b>