### 01. [ 2025-02-24 ] S1P01 – Practical 01.

- **Practical Theme:** Working with the ASP.NET Model-View-Controller (MVC)**.**
- **Due date:** 2025-03-03 before 23:59.

# Activity Notes & Instructions

## PURPOSE AND OBJECTIVE.

The purpose and objective of this practical activity is to:

- Objective 1: Creating a ASP.NET MVC (C#) project.
- Objective 2: Creating a model, controller and a view in the project.
- Objective 3: Adding properties and decorators to the model.
- Objective 4: Using the controller and a very simple list data.
- Objective 5: Displaying simple list data in the view.
- Objective 6: Update the global layout menu to include the new view.
- Objective 7: Using the GitHub repository to load the complete project.

## MATERIAL BEING REFERENCED.

To successfully complete this activity, a student should refer to the notes, details and sample projects that is part of:

- 02. [ 2025 -02 -17 ] S1L02 Session 02 - Getting started with Visual Studio and GitHub.
- 03. [ 2025 -02 -24 ] S1L03 Session 03 - Working with the ASP.NET Model-View-Controller.

## ADDITIONAL USEFUL RESOURCES.

Additional reading resources that may assist with the completion of this activity:

- Learn ASP.NET MVC 5 - TutorialsTeacher.com [ URL: https://www.tutorialsteacher.com/mvc ].

## RESEARCH THAT WILL BE NECESSARY.

You will have to conduct independent research and readings on the following topics:

- None.

## GENERAL INSTRUCTIONS.

Please ensure that you follow the following general instructions.

- This is an individual practical.
- Practical work is based on assessment objectives. If an objective has been achieved a mark will be allocated.
- All 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.

## SUBMISSION DUE: 2025-03-03 before 23:59.

- There shall be no extensions to the deadline.
- All practical work will be marked in the following practical session during the follow-up week.
- Verify the completeness of your upload.
- Incomplete uploads will be considered unsubmitted work.
- E-mail and / or late submissions WILL NOT be accepted.
- NO EXCEPTIONS WILL BE MADE FOR ANYONE.

**ACTIVITY DESCRIPTION AND DETAILS.**

For this practical, please ensure that you comply with the instructions provided. The stipulated instructions are mandatory and not optional.

For the following tasks you will have to use:

- ASP.NET Web Application (.NET Framework) for C#, Windows, Cloud and Web.
- ASP.NET Model-View-Controller (C#).

**TASKS:**

1. Create a new MVC project named after you (myStudyGroup). So, for example, if your name is John Doe or Jane Doe, then the project should be named johnStudyGroup or .janeStudyGroup.
2. Create a model that relates to the table indicated below.
3. Create a controller that relates to the table indicated below.
4. Create a view related to the table indicated below.
5. Add data to the controller that relates to your INF272 study support group. The study support group should constitute 4 other real people.
6. Make sure that you have at least 5 names in the list. The details should be your details, and at least four other people's details.
7. Link the newly create view to the Layout so that the new view can be accessed by means of the navigation bar.
8. Load the final project to your GitHub account. The project should be accessible and clearly visible in your GitHub account. The project should be pushed to GitHub by means of the Visual Studio GitHub integration.
9. The table to be generated by means of the interaction between the model, controller and the view should display the following details.

**Example Table**

| STUDENT NUMBER | NAME | SURNAME | EMAIL ADDRESS |
|---|---|---|---|
| u01234567 | Jane | Doe | jane.doe@tuks.co.za |
| u12345678 | John | Doe | john.doe@tuks.co.za |
| Member 3 | …etc | …etc | …etc |
| Member 4 | …etc | …etc | …etc |
| Member 5 | …etc | …etc | …etc |

**Note:** *The "…etc" should be replaced with study group member details. The table does not need to make use of special formatting or anything additional other that the decorator details as indicated in the model. The position of the header row is of no importance. The default layout generated by MVC on the view is perfectly acceptable.*

**01.  [ 2025-02-24 ] S1P01 – Practical 01.**

- **Practical Theme:** Working with the ASP.NET Model-View-Controller (MVC).

- **Due date:** 2025-03-03 before 23:59.

# Rubric [ ____ / 18 ]

| Student Number | | | | | | | | | Surname | Initials |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |

| REQUIREMENT [Marking].<br>• **Check the appropriate mark [ XX ].**<br>• **Add final mark and assign to top of rubric.** | DYSFUNCTION | PARTIAL | MAX |
|---|---|---|---|
| **1.**   New project with appropriate project name. | **0** | **1** | **2** |
| **2.**   Model with appropriate properties. | **0** | **1** | **2** |
| **3.**   Model with appropriate decorators. | **0** | **1** | **2** |
| **4.**   Controller with appropriate model references. | **0** | **1** | **2** |
| **5.**   Controller with appropriate list data insert and load. | **0** | **1** | **2** |
| **6.**   View accessing model to display headings <td> correctly. | **0** | **1** | **2** |
| **7.**   View accessing model to display headings <tr> correctly [uses loop]. | **0** | **1** | **2** |
| **8.**   Layout updated to add view to navigation bar. | **0** | **1** | **2** |
| **9.**   Project loaded to GitHub. | **0** | **1** | **2** |
| **TOTAL** | **0** | **9** | **18** |