



IPT102 – INTERMEDIATE PROGRAMMING AND TECHNOLOGIES 2
LABORATORY ACTIVITY 3

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STUDENT NO: 23-2396 and 23-2335

YEAR/SECTION: SBIT3R

DATE: SEPTEMBER 9, 2025

SCORE

PERCENTAGE

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INSTRUCTIONS:

📌 Laboratory Activity: Introduction to MVC Architecture & Routing in ASP.NET Learning Objectives

Learning Objectives:

By the end of this activity, students will be able to:

1. Understand the Model-View-Controller (MVC) architecture in ASP.NET.
2. Create a simple ASP.NET MVC application.
3. Configure and test custom routes.
4. Display information using a controller, view, and model.

Activity Instructions:

Step 1: Create a New ASP.NET MVC Project

1. Open Visual Studio 2022 (or later).
2. Click Create a new project → Select ASP.NET Web Application (.NET Framework).
3. Name it: MvcRoutingDemo.
4. Choose MVC Template and click Create.

Step 2: Create a Model

1. Right-click on the Models folder → Add → Class.
2. Name it Student.cs.
3. Add the following code:

Step 3: Create a Controller

1. Right-click on the Controllers folder → Add → Controller.
2. Choose MVC 5 Controller - Empty → Name it StudentController.
3. Add the following code:

Step 4: Create Views

1. Right-click on Index() → Add View → Template: Empty (without model).
2. Add this code in Index.cshtml:

Step 5: Configure Routing

1. Open App_Start → RouteConfig.cs.
2. Update it as follows:

Step 6: Run the Application

- Press F5 or Ctrl+F5 to run.
- Open in browser:

o <http://localhost:xxxx/student> → Shows default student info.

o <http://localhost:xxxx/student/5> → Shows student details with ID=5.

Activity Output

- Students will see a webpage displaying student information.
- They will test custom routing by changing the student ID in the URL.

Task for Students

1. Modify the model to include Age and Year Level.
2. Update both Index and Details views to display these new fields.
3. Create another route:
 - [student/course/{courseName}](http://localhost:xxxx/student/course/{courseName}) → Displays a student with that course.



Details - My ASP.NET Application

localhost:44347/Student/1

MvcRoutingDemo Home About Contact

Student Details

ID:1

Name: Juan Dela Cruz

Course: BS Information Technology

Age: 21

YearLevel: 3rd

Details - My ASP.NET Application

localhost:44347/Student/5

MvcRoutingDemo Home About Contact

Student Details

ID:5

Name: Cahilig and Lumague

Course: BS Information Technology

Age: 20

YearLevel: 3rd