

## Sagarnnatha college of science & technology

TRIBHUVAN UNIVERSITY AFFILIATE

Lab Report On: Net Centric Computing

Lab Report No: <u>02</u>

Submitted By:

**Submitted To:** 

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- 1.) Create a ASP. NET Core MVE Project and pesform following task:
  - a. Create a controller Controller with 3 action methods:
    - i) Index this should return string
    - ii) Details pass some value and show this into
    - iii) Show use of ViewData and ViewBag

## PROCESS INVOLVED

- → To create a ASP. NET Core MVC Project, "Create a Project" was selected in Visual Studio.
- "ASP. NET core Web Application" was selected and then "Next" was selected.
- -> The project name was monamed to "Lab2"
- Location path was selected for project.
- -> Clicked "Create"
- -> All of the options, "Web-Application (Model-View-Controller" was selected and "(reate" was selected.
- -> To run the application, "ITS Express" or "Ctrl+ F5" was pressed.
- a.) Create a controlles "Controlles1"
- > In Solution Explores, right-click Controlles > Add >
- In a dialog box, select "Controller class Empty"
- > Then, enter "Controller 1 Controller" and select "Add"
- -) After this, 3 action methods as were created in controlless which are written below

i.) Index - this should return string:

public string Index ()

return " This is my default action...";

ii) Details - pass some value and show this in its corresponding view page

Action Method in Controlles I

public TAction Result Details (string detail)

View Data ["detail"] = detail;

return View ();

· View Page of Details action method

To create a View page of Details, we can put cusor on Details action method in Controllers and then right-click and "Add View" and then "Razor View", select "Add" and select the layout too, and finally select "Add". This create the Johles & dile as

Views controller 1

Details. cshtml

Of View Data ["Title"] = "Details";

2h1>@ View Data ["detail"] 21h1>

> To run this, start serves lapp and in browser, write URL as:

11 to alhost: 44394/60n holles 1/Details: detail = Hello I + am + Bijay + Shrestha

```
John - use of View Data and View Bag

public JAction Result Show ()

View Data ["Message"] = "Message from View Data";

View Bag. Greet = "Greet from View Bag";

return View l);

Views of Show" is created similarly as of Details:

Qf

View Data ["Title"] = "Show";

S

ch1> QView Data ["Message"] 2/h1>
2h2> QView Bag. Greet 2/h2>

URL: localhost: 44394/Controller 1/Show
```

- 2.) In your project add new controller Controller 2 with add one action method to send id numeric value and string value to your View Page. Then show using razor Syntax to display the string value to id number of times.
  - To llowing the similar steps as done for controller 1 and it's action method and views, Here also, we created "Convoller 2" controller with "Display" action method with its corresponding View page.
    - > "Display" action method in Controlles?

      public JAction Result Heterned Display (int n, string greet)

      View Data ["n"] = n;

      View Bag. Greet = greet;

      return View ();
    - View Page of Details is in Views/Controller2/Display without

      Of

      ViewDatu ["Tille"] = "Display";

      layout = "~/Views/Shared/-layord. eshtend";

      S

      Zh1> Display 2/h1>

      Zu1>

      Ofer (int ; = 0; ; z (int) ViewData ["n"]; itt)

      S

      Zli> QviewBay. greet 2/1/i>

2/417 > URL: https://localhed: 44394/Controller 2/Display?n=2ll greet = 1/cl/o + Sir

- 3.) Now Add model Model in your project with these property members FullName, Email, Salary
  - a.) Add Data Annotation on Model
  - b.) Add necessary Model Validations on each property Members.

## PROCESS INVOLETED

- -> ho ho solution Explorer, right-click Models folder, select Add and select class, then name it as 'Model' and press Add.
- > (reale the property members as

  public string FullName of get; set; 9

  public string Email of get; set; 9

  public decimal Salary of get; set; 9
  - a) Add Datu Annotation on Model
  - The data annotation are added as

    CDisplay (Name = "Full Name")]

    [Required]

    public string Full Name {get; Set; 9

    public string Full Name { properties

    similary, for other 2 properties
  - b.) Add necessory Model Validations
  - -> Email field is validated as

    [[Email Address]

    public string Grain ( get; set; 5:

    Full Name is validated as
  - [ Stringlength (100, Minimumlength = 3, Error Message = 1)

    [ Stringlength (100, Minimumlength = 3, Error Message = 1)

    [ Stringlength (100, Minimumlength = 3, Error Message = 1)

    [ John name is too short")]

    [ public string FullName of got; Set; ]

```
Finally, the 'Model' becomes
 public class Model 1
     [Display (Name = " First Name ")]
     [ Required]
     [Stringlength (100, Minimum length = 3, Error Message = "You name is too short")]
     public string Full Name & get; set; 9
     [Display (Name = "Email")]
     [fmail Address]
     public string Email & get; set; 5
     [Display (Name = "Salary")]
      [ Required]
      public decimal Salary of get; set 35
```

- 4.) On any of the above controller, create action methods with Httphet and HttpPost a.) Show how can you bind the Model b.) Check the Model Stark is Valid or not (1) Show validation message in your view page PROCESS TNUOLVED - In controller 2, action methods with Attphet and AttipPast one created and model binding is done as CHHPGet public Inchion Result Simple Binding () return View ( new Model1 () & Full Name = " Bijaj Shrestha", Email = "bijay agmail.com", Salony = 110009); Public TActionResult Simple Binding (Model weblser) - [HHpPast] i) (ModelStat. Is Valid) retun Content ("Hello!" + weblser Fullware); else return View (NebUses);
  - > While in http: Past method, model state is chroked whether it is valid a not.

```
-) The view page of Simple Binding method to show validation message when there is enor is
     Views /Controller2/Simple Binding.cshtml
    @model lab2. Models. Model1
     61
         View Data ["Title"] = "Simple Binding";
         layout = " n / Views / Showed /- layout. whtml";
      2h17 Simple Binding 2/h17
     Qusing (Vas from = Html. Begin Form ())
               @Html. Labelfor (m => m. Full Name)
          2div>
               & Html. TextBarFor (m => m. Full Name)
               a Html. Validation Message For (m => m. Full Name)
          21 div>
          Ldivz
               e Html. label For (m =) m. Email)
               a Html. TextBox For (m =) m. Email)
a Html. Validation Message For (m => m. Email)
           ZIdiv>
           < div>
               @ Html. label for (M => M. Salony)
               a Html. Text Box for (m => m. Salary)
               a Html. Validation Message For (m => m. Salary)
            21div>
       Ve input type = "submit" value = "Submit" 1>
```