

**PRN No : 230945920062**

**Module name: MS .NET**

**SET - 2**

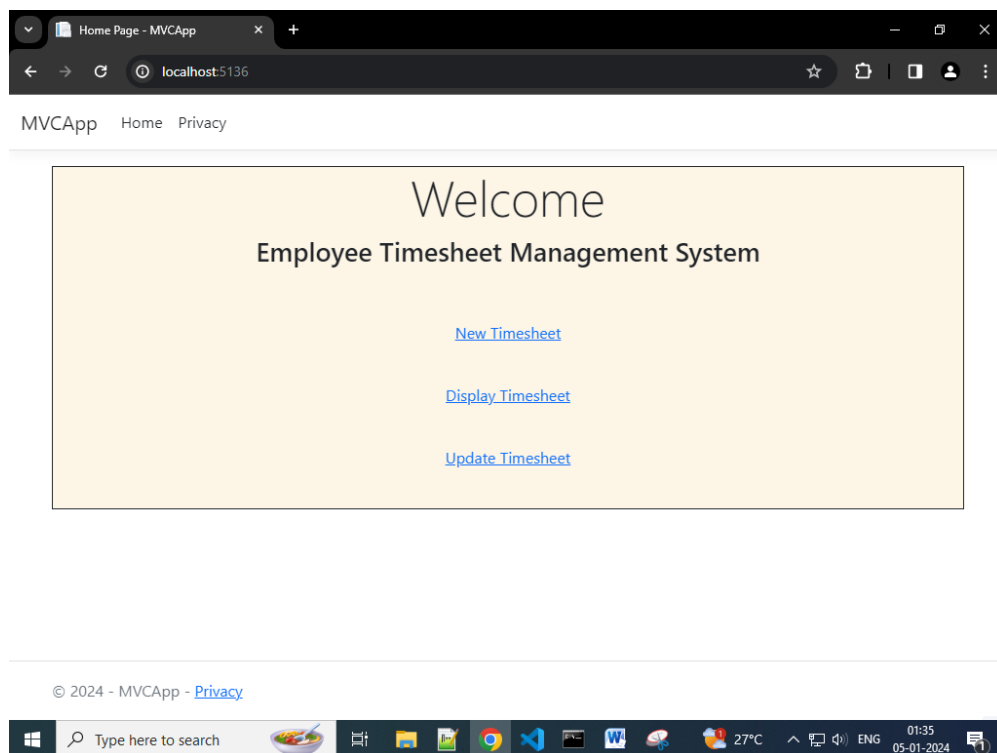
**Table in Database:**

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
Date	varchar(10)	YES		NULL	
Work	varchar(20)	YES		NULL	
Duration	int	YES		NULL	
Status	varchar(20)	YES		NULL	

5 rows in set (0.01 sec)

## Front End

### 1. Home Page



## 2. Insert Page

MVCApp Home Privacy

### Enter New Timesheet

Date (dd/mm/yyyy) :

Work Deseption :

Work Duration :

Work Status :

Type here to search 27°C ENG 01:35 05-01-2024

## 3. Display Page

MVCApp Home Privacy

### Employee Time Sheet

ID	Date	Work	Duration(Hrs)	Status	Edit Details
1	10/12/2023	Concreting	5	In Progress	<a href="#">Edit</a>
2	20/02/2023	Surveying	12	In Progress	<a href="#">Edit</a>
3	17/02/2021	Superwising	5	Not Completed	<a href="#">Edit</a>
4	20/12/2023	Plastering	9	Completed	<a href="#">Edit</a>
5	26/07/2021	Curing	23	Not Completed	<a href="#">Edit</a>

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#### 4. Update Page

MVCApp Home Privacy

### Update Old Timesheet

Timesheet ID :

Date (dd/mm/yyyy) :

Work Deseption :

Work Duration :

Work Status :

#### 5. Display In Database

```
mysql> table timesheet;
```

id	Date	Work	Duration	Status
1	10/12/2023	Concreting	5	In Progress
2	20/02/2023	Surveying	12	In Progress
3	17/02/2021	Superwising	5	Not Completed
4	20/12/2023	Plastering	9	Completed
5	26/07/2021	Curing	23	Not Completed

5 rows in set (0.00 sec)

## Code

### 1. View (.cshtml Pages)

#### Home Page

```
@{
    ViewData["Title"] = "Home Page";
}

<fieldset class="text-center" style="border:0.5px solid;background-color:oldlace">
    <h1 class="display-4">Welcome</h1>
    <h3>Employee Timesheet Management System</h3><br><br>
    <p><a href="Home/Insert">New Timesheet</a></p><br>
    <p><a href="Home/Display">Display Timesheet</a></p><br>
    <p><a href="Home/Update">Update Timesheet</a></p><br>
</fieldset>
```

#### Insert Page

```
@{
    ViewData["Title"] = "Insert";
}

<div class="text-center">

<fieldset class="text-center" style="border:0.5px solid;background-color:powderblue";><br><br>

<form method="post">
<h2><b>Enter New Timesheet</b></h2><br><hr><br>

Date (dd/mm/yyyy) : <input type="text" name="Date"
placeholder="dd/mm/yyyy"></input><br><br>

Work Deseption : <input type="text" name="Work" placeholder="Work
Desiption"></input><br><br>

Work Duration : <input type="number" name="Duration" placeholder="Duration in
Hours"></input><br><br>

Work Status : <input type="text" name="Status" placeholder="Completed/Not
Completed/In Progress"></input><br><br><hr><br>
```

```

<button type="submit">Insert New Timesheet</button><br><br><br>

</form>

</fieldset>

</div>

```

## Display Page

```

@using BOL;
@{
    ViewData["Title"] = "Home Page";
}
@{
    List<Timesheet>? ls = this.ViewData["display"] as List<Timesheet>;
}
<style>
table, th, td {
    border: 1px solid black;
    border-collapse: collapse;
}
.center {
    margin-left: auto;
    margin-right: auto;
}
</style>
<div class="text-center" style="background-color:powderblue"><br><br>

    <h2><b>Employee Time Sheet</b></h2><br><hr><br>
    <table class="center" border="1" width="500">
        <thead>
            <tr>
                <td height="50"><b>ID</b></td>
                <td height="50"><b>Date</b></td>
                <td height="50"><b>Work</b></td>
                <td height="50"><b>Duration(Hrs)</b></td>
                <td height="50"><b>Status</b></td>
                <td height="50"><b>Edit Details</b></td>
            </tr>
        </thead>
        <tbody>
            @foreach(Timesheet ts in ls)
            {
                <tr>
                    <td height="50">@ts.id</td>

```

```

        <td height="50">@ts.Date</td>
        <td height="50">@ts.Work</td>
        <td height="50">@ts.Duration</td>
        <td height="50">@ts.Status</td>
        <td height="50"><a href="Home/Update">Edit</a></td>
    </tr>
}
</tbody>
</table><br><br><br>
</div>

```

## Update Page

```

public static void Update(Timesheet ts)
{
    MySqlConnection conn = new MySqlConnection();

    conn.ConnectionString =
"server=192.168.10.150;port=3306;user=dac3;password=welcome;database=dac3";

    string query = "Update timesheet set
date='"+ts.Date+"',work='"+ts.Work+"',duration='"+ts.Duration+"',status='"+ts.St
atus+"' Where id="+ts.id;

    MySqlCommand cmd = new MySqlCommand(query,conn);

    try
    {
        conn.Open();
        cmd.ExecuteNonQuery();
    }
    catch(Exception e)
    {
        Console.WriteLine(e.Message);
    }
    finally
    {
        conn.Close();
    }
}

```

## 2. Home Controller ( in Controller)

```
using System.Diagnostics;
using Microsoft.AspNetCore.Mvc;
using MVCApp.Models;
using BOL;
using DAL;

namespace MVCApp.Controllers;

public class HomeController : Controller
{
    private readonly ILogger<HomeController> _logger;

    public HomeController(ILogger<HomeController> logger)
    {
        _logger = logger;
    }

    public IActionResult Index()
    {
        return View();
    }

    public IActionResult Privacy()
    {
        return View();
    }

    [HttpGet]
    public IActionResult Display()
    {
        List<Timesheet> ls = DBManager.Display();
        this.ViewData["display"]=ls;
        return View();
    }

    [HttpGet]
    public IActionResult Insert()
    {
        return View();
    }

    [HttpPost]
    public IActionResult Insert(string Date, string Work, int Duration, string
Status)
    {
        Timesheet ts = new Timesheet(Date,Work,Duration,Status);
    }
}
```

```

        DBManager.Insert(ts);
        return View();
    }
    [HttpGet]
    public IActionResult Update()
    {
        return View();
    }
    [HttpPost]
    public IActionResult Update(int id, string Date, string Work, int
Duration, string Status)
    {
        Timesheet ts = new Timesheet(id, Date, Work, Duration, Status);
        DBManager.Insert(ts);
        return View();
    }

    [ResponseCache(Duration = 0, Location = ResponseCacheLocation.None,
NoStore = true)]
    public IActionResult Error()
    {
        return View(new ErrorViewModel { RequestId = Activity.Current?.Id ??
HttpContext.TraceIdentifier });
    }
}

```



### 3. DB Manager (in DAL)

```
using BOL;
using MySql.Data.MySqlClient;
using ZstdSharp.Unsafe;

namespace DAL;

public static class DBManager
{
    public static void Insert(Timesheet ts)
    {
        MySqlConnection conn = new MySqlConnection();

        conn.ConnectionString =
"server=192.168.10.150;port=3306;user=dac3;password=welcome;database=dac3";

        string query = "Insert into
timesheet(date,work,duration,status)values('"+ts.Date+"','"+ts.Work+"','"+ts.Du
ration+"','"+ts.Status+"')";

        MySqlCommand cmd = new MySqlCommand(query,conn);

        try
        {
            conn.Open();
            cmd.ExecuteNonQuery();
        }
        catch(Exception e)
        {
            Console.WriteLine(e.Message);
        }
        finally
        {
            conn.Close();
        }
    }

    public static List<Timesheet> Display()
    {
        MySqlConnection conn = new MySqlConnection();

        conn.ConnectionString =
"server=192.168.10.150;port=3306;user=dac3;password=welcome;database=dac3";

        string query = "Table Timesheet";
```

```
MySQLCommand cmd = new MySQLCommand(query,conn);
List<Timesheet> ls = new List<Timesheet>();

try
{
    conn.Open();
    MySQLDataReader reader = cmd.ExecuteReader();

    while(reader.Read())
    {
        Timesheet ts = new Timesheet();
        ts.id = int.Parse(reader["id"].ToString());
        ts.Date = reader["Date"].ToString();
        ts.Work = reader["Work"].ToString();
        ts.Duration = int.Parse(reader["Duration"].ToString());
        ts.Status = reader["Status"].ToString();

        ls.Add(ts);
    }

    return ls;
}
catch(Exception e)
{
    Console.WriteLine(e.Message);
    return null;
}
finally
{
    conn.Close();
}
}
```

#### 4. Class File (in BOL)

```
namespace BOL;

public class Timesheet
{
    public int id;
    public string? Date;
    public string? Work;
    public int Duration;
    public string? Status;

    public Timesheet()
    {

    }

    public Timesheet(int id, string Date, string Work, int Duration, string
Status)
    {
        this.id=id;
        this.Date=Date;
        this.Work=Work;
        this.Duration=Duration;
        this.Status=Status;
    }

    public Timesheet(string Date, string Work, int Duration, string Status)
    {
        this.Date=Date;
        this.Work=Work;
        this.Duration=Duration;
        this.Status=Status;
    }
}
```

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