

MAHATMA EDUCATION SOCIETY'S  
PILLAI COLLEGE OF ARTS, COMMERCE & SCIENCE  
(Autonomous)

NEW PANVEL

PROJECT REPORT ON

**“Online Notes Sharing Portal”**

IN PARTIAL FULFILLMENT OF

BACHELOR OF COMPUTER APPLICATION

SEMESTER V 2025-26

PROJECT GUIDE

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ROLL NO: 8112

Mahatma Education Society's  
**PILLAI COLLEGE OF ARTS, COMMERCE & SCIENCE (Autonomous), New Panvel**  
Re-accredited "A" Grade by NAAC (3<sup>rd</sup> Cycle)



**Project Completion Certificate**

**THIS IS TO CERTIFY THAT**

**Paras Vinod Chaudhari**

of TYBCA has completed the project titled "**Online Notes Sharing Portal**"

Under our guidance and supervision during the academic year 2025-26 in the department of  
Computer Application

Course Coordinator

Head of Department

Project Guide



# **Introduction**

The Online Notes Sharing Portal is a web application designed for students and professionals to upload, manage, and share their notes in digital format, primarily PDFs. The portal acts as a collaborative knowledge-sharing hub where users can contribute their notes and access notes uploaded by others.

Each user must register and log in before accessing or uploading notes. Once logged in, users can:

- Upload notes in PDF format.
- View details of uploaded notes, including title, uploader, upload date, and file download.
- Edit or delete only the notes they have uploaded.
- Access notes uploaded by other users.

The system ensures data security and privacy by associating each note with the uploader and restricting edit/delete actions only to the user who uploaded the note. By providing a central platform, the portal facilitates efficient academic resource sharing for all authenticated users.

## **Tools & Techniques Used**

### **Programming Language & Framework:**

- C# with ASP.NET WebForms (server-side event-driven web framework).

### **Backend Database:**

- MySQL for storing user information, session tracking, and notes metadata.

### **Frontend:**

- HTML5 & CSS3 for page structure and styling.
- ASP.NET WebForms Controls such as GridView, Literal, HyperLink, Button, and FileUpload for dynamic page content.

### **File Handling:**

- Uploaded PDFs are stored in a server-side uploads folder with unique GUID filenames to avoid overwriting.

### **Authentication & Session Management:**

- ASP.NET Session to maintain login state (UserId, UserName).
- Login and registration forms ensure authenticated access to notes.

### **IDE / Editor:**

- Visual Studio 2022 for development and debugging.

## Techniques implemented

- **Session Management:** Tracks logged-in users and manages page access.
- **File Upload & Validation:**
  - Restricts uploads to PDF files.
  - Limits file size to 20 MB.
- **CRUD Operations:**
  - Create: Upload new notes.
  - Read: View personal and all users' notes.
  - Update: Edit uploaded notes.
  - Delete: Remove uploaded notes.
- **Access Control:** Only the uploader can edit or delete their notes.
- **Navigation & UI:**
  - Master page (Site.Master) provides consistent navbar, welcome message, and links.
  - GridView displays notes in tabular format with buttons/links for actions.

## Code

### 1. Note.cs

```
using System;

namespace NotesSharingWebForms.Models

{

    public class Note

    {

        public int Id { get; set; }

        public string Title { get; set; }

        public string FilePath { get; set; }

        public int UploadedBy { get; set; }

        public DateTime UploadTime { get; set; }

    }

}
```

### 2. Session.cs

```
using System;

namespace NotesSharingWebForms.Models

{

    public class Session

    {

        public int Id { get; set; }

        public int UserId { get; set; }

        public DateTime LoginTime { get; set; }

        public DateTime? LogoutTime { get; set; }

        public string IpAddress { get; set; }

    }

}
```

```
}
```

### 3.User.cs

```
using System;
```

```
namespace NotesSharingWebForms.Models
```

```
{
```

```
    public class User
```

```
{
```

```
    public int Id { get; set; }
```

```
    public string Name { get; set; }
```

```
    public string Email { get; set; }
```

```
    public string Password { get; set; }
```

```
    public DateTime CreatedAt { get; set; }
```

```
}
```

```
}
```

### 4.Login.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Login.aspx.cs"
Inherits="NotesSharingWebForms.Pages.Account.Login" %>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head runat="server">
```

```
    <title>Login</title>
```

```
    <link href="../../Styles/site.css" rel="stylesheet" />
```

```
  </head>
```

```
  <body>
```

```
    <form id="form1" runat="server">
```

```
      <div class="container">
```

```
        <h2>Login</h2>
```

```
        <asp:Literal ID="litMsg" runat="server" />
```

```
        <label>Email</label>
```

```

<asp:TextBox ID="txtEmail" runat="server" CssClass="input" />
<label>Password</label>
<asp:TextBox ID="txtPassword" runat="server" CssClass="input"
TextMode="Password" />
<br /><br />
<asp:Button ID="btnLogin" runat="server" Text="Login" CssClass="btn btn-primary" OnClick="btnLogin_Click" />
<a class="btn" href="Register.aspx">Register</a>
</div>
</form>
</body>
</html>

```

## 5.Login.aspx.cs

```

using System;
using System.Web;
using System.Web.Security;
using System.Security.Cryptography;
using System.Text;
using MySql.Data.MySqlClient;

namespace NotesSharingWebForms.Pages.Account
{
    public partial class Login : System.Web.UI.Page
    {
        string ConnStr =>
System.Configuration.ConfigurationManager.ConnectionStrings[" MySqlConn"].ConnectionString;

        protected void Page_Load(object sender, EventArgs e)
        {
            if (Session["UserId"] != null)

```

```
        Response.Redirect("../Notes/Index.aspx");
    }

protected void btnLogin_Click(object sender, EventArgs e)
{
    string email = txtEmail.Text.Trim();
    string password = txtPassword.Text;

    using (var conn = new MySqlConnection(ConnStr))
        using (var cmd = new MySqlCommand("SELECT id, password, name FROM
users WHERE email=@e", conn))
    {
        conn.Open();
        cmd.Parameters.AddWithValue("@e", email);
        using (var r = cmd.ExecuteReader())
        {
            if (r.Read())
            {
                var id = r.GetInt32("id");
                var hash = r.GetString("password");
                var name = r.GetString("name");

                // Hash entered password and compare
                if (hash == HashPassword(password))
                {
                    // Login OK
                    Session["UserId"] = id;
                    Session["UserName"] = name;
                    FormsAuthentication.SetAuthCookie(email, false);

                    r.Close();
                }
            }
        }
    }
}
```

```

        using (var cmd2 = new MySqlCommand("INSERT INTO
sessions(user_id, ip_address) VALUES(@u, @ip); SELECT LAST_INSERT_ID();",
conn))

{
    cmd2.Parameters.AddWithValue("@u", id);
    cmd2.Parameters.AddWithValue("@ip",
HttpContext.Current.Request.UserHostAddress ?? "");

    var sessId = Convert.ToInt32(cmd2.ExecuteScalar());
    Session["SessRowId"] = sessId;
}

Response.Redirect("../Notes/Index.aspx");
return;
}

}

}

}

litMsg.Text = "<div class='alert'>Invalid email or password</div>";
}

// Same SHA256 hashing method as in Register
private string HashPassword(string password)
{
    using (SHA256 sha = SHA256.Create())
    {
        byte[] bytes = sha.ComputeHash(Encoding.UTF8.GetBytes(password));
        StringBuilder sb = new StringBuilder();
        foreach (var b in bytes)
            sb.Append(b.ToString("x2"));
    }
}

```

```
        return sb.ToString();
    }
}
}
}
```

## 6.Register.aspx

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="Register.aspx.cs"
Inherits="NotesSharingWebForms.Pages.Account.Register" %>
<!DOCTYPE html>
<html>
<head runat="server">
    <title>Register</title>
    <link href="../../Styles/site.css" rel="stylesheet" />
</head>
<body>
<form id="form1" runat="server">
    <div class="container">
        <h2>Register</h2>
        <asp:Literal ID="litMsg" runat="server" />
        <label>Name</label>
        <asp:TextBox ID="txtName" runat="server" CssClass="input" />
        <label>Email</label>
        <asp:TextBox ID="txtEmail" runat="server" CssClass="input" />
        <label>Password</label>
        <asp:TextBox ID="txtPassword" runat="server" CssClass="input"
TextMode="Password" />
```

```

<br /><br />

<asp:Button ID="btnRegister" runat="server" Text="Create Account"
CssClass="btn btn-primary" OnClick="btnRegister_Click" />

<a class="btn" href="Login.aspx">Back to Login</a>

</div>

</form>

</body>

</html>

<%-- --%>

```

## **8. Register.aspx.cs**

```

using System;

using System.Security.Cryptography;

using System.Text;

using MySql.Data.MySqlClient;

namespace NotesSharingWebForms.Pages.Account
{
    public partial class Register : System.Web.UI.Page
    {
        string ConnStr =>
System.Configuration.ConfigurationManager.ConnectionStrings[" MySqlConn"].ConnectionString;

        protected void btnRegister_Click(object sender, EventArgs e)
        {
            var name = txtName.Text.Trim();
            var email = txtEmail.Text.Trim();
            var pass = txtPassword.Text;

            if (name == "" || email == "" || pass == "")
            {

```

```

litMsg.Text = "<div class='alert'>All fields are required.</div>";
return;
}

using (var conn = new MySqlConnection(ConnStr))
{
    conn.Open();
    // Check unique email

    using (var chk = new MySqlCommand("SELECT COUNT(*) FROM users
WHERE email=@e", conn))
    {
        chk.Parameters.AddWithValue("@e", email);
        var exists = Convert.ToInt32(chk.ExecuteScalar()) > 0;
        if (exists)
        {
            litMsg.Text = "<div class='alert'>Email already exists.</div>";
            return;
        }
    }

    // Insert new user

    using (var cmd = new MySqlCommand("INSERT INTO
users(name,email,password) VALUES(@n,@e,@p)", conn))
    {
        cmd.Parameters.AddWithValue("@n", name);
        cmd.Parameters.AddWithValue("@e", email);
        cmd.Parameters.AddWithValue("@p", HashPassword(pass));
        cmd.ExecuteNonQuery();
    }
}

```

```

        litMsg.Text = "<div class='alert'>Account created. <a href='Login.aspx'>Login</a></div>";
    }

// Simple SHA256 hashing method
private string HashPassword(string password)
{
    using (SHA256 sha = SHA256.Create())
    {
        byte[] bytes = sha.ComputeHash(Encoding.UTF8.GetBytes(password));
        StringBuilder sb = new StringBuilder();
        foreach (var b in bytes)
            sb.Append(b.ToString("x2"));
        return sb.ToString();
    }
}

```

## 9.Logout.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Logout.aspx.cs"
Inherits="NotesSharingWebForms.Pages.Account.Logout" %>
```

```

<!DOCTYPE html>
<html>
<head runat="server">
    <title>Logout</title>
</head>
<body>
    <form id="form1" runat="server">
        <div>Logging out...</div>

```

```
</form>  
</body>  
</html>
```

## 10. Logout.aspx.cs

```
using System;  
using System.Web;  
using System.Web.Security;  
  
namespace NotesSharingWebForms.Pages.Account  
{  
    public partial class Logout : System.Web.UI.Page  
    {  
        protected void Page_Load(object sender, EventArgs e)  
        {  
            // Clear session  
            Session.Clear();  
            Session.Abandon();  
  
            // Sign out from FormsAuthentication  
            FormsAuthentication.SignOut();  
  
            // Redirect to login page  
            Response.Redirect("Login.aspx");  
        }  
    }  
}
```

## **11. Profile.aspx**

```
<%@ Page Title="Profile" Language="C#" MasterPageFile="~/Site.Master"
AutoEventWireup="true" CodeBehind="Profile.aspx.cs"
Inherits="NotesSharingWebForms.Pages.Account.Profile" %>

<asp:Content ID="Content1" ContentPlaceHolderID="MainContent" runat="server">
    <div class="container">
        <h2>My Profile</h2>
        <p><strong>Name:</strong> <asp:Literal ID="litName" runat="server" /></p>
        <p><strong>Email:</strong> <asp:Literal ID="litEmail" runat="server" /></p>
        <p>
            <asp:Button ID="btnLogout" runat="server" Text="Logout" CssClass="btn
            btn-danger" OnClick="btnLogout_Click" />
        </p>
    </div>
</asp:Content>
```

## **12. Profile.aspx.cs**

```
using System;
using System.Web.Security;
using MySql.Data.MySqlClient;

namespace NotesSharingWebForms.Pages.Account
{
    public partial class Profile : System.Web.UI.Page
    {
        string ConnStr =>
System.Configuration.ConfigurationManager.ConnectionStrings[" MySqlConn"].ConnectionString;

        protected void Page_Load(object sender, EventArgs e)
```

```
{  
    EnsureLoggedIn();  
    if (!IsPostBack) LoadProfile();  
}  
  
void EnsureLoggedIn()  
{  
    if (Session["UserId"] == null) Response.Redirect("Login.aspx");  
}  
  
void LoadProfile()  
{  
    using (var conn = new MySqlConnection(ConnStr))  
        using (var cmd = new MySqlCommand("SELECT name, email FROM users  
WHERE id=@id", conn))  
    {  
        conn.Open();  
        cmd.Parameters.AddWithValue("@id",  
Convert.ToInt32(Session["UserId"]));  
        using (var r = cmd.ExecuteReader())  
        {  
            if (r.Read())  
            {  
                litName.Text = r.GetString("name");  
                litEmail.Text = r.GetString("email");  
            }  
        }  
    }  
}  
  
protected void btnLogout_Click(object sender, EventArgs e)
```

```
{  
    // Update sessions.logout_time if we have the row id  
    try  
    {  
        var rowId = Session["SessRowId"] as int?;  
        if (rowId.HasValue)  
        {  
            using (var conn = new MySqlConnection(ConnStr))  
            using (var cmd = new MySqlCommand("UPDATE sessions SET  
logout_time=NOW() WHERE id=@id", conn))  
            {  
                conn.Open();  
                cmd.Parameters.AddWithValue("@id", rowId.Value);  
                cmd.ExecuteNonQuery();  
            }  
        }  
        catch {}  
  
        Session.Clear();  
        Session.Abandon();  
        FormsAuthentication.SignOut();  
        Response.Redirect("../Default.aspx");  
    }  
}
```

### 13.All.aspx

```
<%@ Page Language="C#" MasterPageFile="~/Site.Master"
AutoEventWireup="true" CodeBehind="All.aspx.cs"
Inherits="NotesSharingWebForms.Pages.Notes.All" %>

<asp:Content ID="Content1" ContentPlaceHolderID="MainContent" runat="server">
    <div class="container">
        <h2>All Notes</h2>
        <p>
            </p>
            <asp:GridView ID="gvAll" runat="server" AutoGenerateColumns="False"
            CssClass="table">
                <Columns>
                    <asp:BoundField DataField="id" HeaderText="ID" />
                    <asp:BoundField DataField="title" HeaderText="Title" />
                    <asp:HyperLinkField HeaderText="File"
                    DataNavigateUrlFields="file_path" Text="Download" />
                    <asp:BoundField DataField="uploader" HeaderText="Uploaded By" />
                    <asp:BoundField DataField="upload_time" HeaderText="Uploaded"
                    DataFormatString="{0:yyyy-MM-dd HH:mm}" />
                    <asp:HyperLinkField HeaderText="Details" Text="View"
                    DataNavigateUrlFields="id" DataNavigateUrlFormatString="Details.aspx?id={0}" />
                </Columns>
            </asp:GridView>
        </div>
    </asp:Content>
```

#### **14. All.aspx.cs**

```
using System;
using System.Data;
using MySql.Data.MySqlClient;

namespace NotesSharingWebForms.Pages.Notes
{
    public partial class All : System.Web.UI.Page
    {
        string ConnStr =>
System.Configuration.ConfigurationManager.ConnectionStrings[" MySqlConn"].ConnectionString;

        protected void Page_Load(object sender, EventArgs e)
        {
            if (!IsPostBack) LoadAll();
        }

        void LoadAll()
        {
            string sql = @"SELECT n.id, n.title, n.file_path, n.upload_time, u.name AS
uploader
                FROM notes n INNER JOIN users u ON n.uploaded_by = u.id
                ORDER BY n.upload_time DESC";
            using (var conn = new MySqlConnection(ConnStr))
            using (var da = new MySqlDataAdapter(sql, conn))
            {
                var dt = new DataTable();
                da.Fill(dt);
                gvAll.DataSource = dt;
                gvAll.DataBind();
            }
        }
    }
}
```

```
    }
}
}
}
```

## 15.Create.aspx

```
<%@ Page Language="C#" MasterPageFile="~/Site.Master"
AutoEventWireup="true" CodeBehind="Create.aspx.cs"
Inherits="NotesSharingWebForms.Pages.Notes.Create" %>

<asp:Content ID="Content1" ContentPlaceHolderID="MainContent" runat="server">


## Upload Note (PDF)



## 16. Create.aspx.cs



```
using System;
using System.IO;
```


```

```
using MySql.Data.MySqlClient;

namespace NotesSharingWebForms.Pages.Notes
{
    public partial class Create : System.Web.UI.Page
    {
        string ConnStr =>
System.Configuration.ConfigurationManager.ConnectionStrings[" MySqlConn"].ConnectionString;

        protected void Page_Load(object sender, EventArgs e)
        {
            if (Session["UserId"] == null) Response.Redirect("../Account/Login.aspx");
        }

        protected void btnUpload_Click(object sender, EventArgs e)
        {
            if (!fu.HasFile) { litMsg.Text = "<div class='alert'>Please choose a PDF file.</div>"; return; }

            var ext = Path.GetExtension(fu.FileName).ToLowerInvariant();
            if (ext != ".pdf") { litMsg.Text = "<div class='alert'>Only PDF allowed.</div>"; return; }

            var title = txtTitle.Text.Trim();
            if (string.IsNullOrWhiteSpace(title)) { litMsg.Text = "<div class='alert'>Title is required.</div>"; return; }

            var guid = Guid.NewGuid().ToString();
            var newFileName = guid + ".pdf";
            var physicalPath = Server.MapPath("~/Uploads/" + newFileName);
            fu.SaveAs(physicalPath);
```

```

// Save DB path as lowercase '/uploads/...'
var dbPath = "/uploads/" + newFileName;

using (var conn = new MySqlConnection(ConnStr))
    using (var cmd = new MySqlCommand("INSERT INTO notes(title, file_path,
uploaded_by) VALUES(@t, @p, @u)", conn))
{
    conn.Open();
    cmd.Parameters.AddWithValue("@t", title);
    cmd.Parameters.AddWithValue("@p", dbPath);
    cmd.Parameters.AddWithValue("@u", Convert.ToInt32(Session["UserId"]));
    cmd.ExecuteNonQuery();
}

Response.Redirect("Index.aspx");
}
}
}

```

## 17. Delete.aspx

```

<%@ Page Language="C#" MasterPageFile("~/Site.Master" AutoEventWireup="true"
CodeBehind="Delete.aspx.cs" Inherits="NotesSharingWebForms.Pages.Notes.Delete" %>

<asp:Content ID="Content1" ContentPlaceHolderID="MainContent" runat="server">
    <div class="container">
        <h2>Delete Note</h2>
        <asp:Literal ID="litMsg" runat="server" />

        <p><strong>Are you sure you want to delete this note?</strong></p>
        <p><strong>ID:</strong> <asp:Literal ID="litId" runat="server" /></p>
        <p><strong>Title:</strong> <asp:Literal ID="litTitle" runat="server" /></p>

```

```

<asp:HiddenField ID="hidId" runat="server" />
<asp:HiddenField ID="hidPath" runat="server" />

<br />
<asp:Button ID="btnConfirm" runat="server" Text="Yes, Delete" CssClass="btn btn-
danger" OnClick="btnConfirm_Click" />
<a class="btn" href="Index.aspx">Cancel</a>
</div>
</asp:Content>

```

## **18.Delete.aspx.cs**

```

using System;
using System.IO;
using MySql.Data.MySqlClient;

namespace NotesSharingWebForms.Pages.Notes
{
    public partial class Delete : System.Web.UI.Page
    {
        string ConnStr =>
System.Configuration.ConfigurationManager.ConnectionStrings[" MySqlConn"].ConnectionString;

        protected void Page_Load(object sender, EventArgs e)
        {
            if (Session["UserId"] == null) Response.Redirect("../Account/Login.aspx");
            if (!IsPostBack) LoadNote();
        }

        void LoadNote()
    }
}

```

```

{
    if (!int.TryParse(Request.QueryString["id"], out int id)) {
        Response.Redirect("Index.aspx"); return; }

    using (var conn = new MySqlConnection(ConnStr))

        using (var cmd = new MySqlCommand("SELECT title, file_path, uploaded_by
FROM notes WHERE id=@id", conn))

    {
        conn.Open();
        cmd.Parameters.AddWithValue("@id", id);
        using (var r = cmd.ExecuteReader())
        {
            if (r.Read())
            {
                int owner = Convert.ToInt32(r["uploaded_by"]);
                if (owner != Convert.ToInt32(Session["UserId"]))
                    Response.Redirect("Index.aspx");

                litId.Text = id.ToString();
                litTitle.Text = r["title"].ToString();
                hidId.Value = id.ToString();
                hidPath.Value = r["file_path"].ToString();
            }
            else Response.Redirect("Index.aspx");
        }
    }
}

protected void btnConfirm_Click(object sender, EventArgs e)
{
    if (!int.TryParse(hidId.Value, out int id)) { Response.Redirect("Index.aspx"); return; }
}

```

```
string path = hidPath.Value;

using (var conn = new MySqlConnection(ConnStr))
    using (var cmd = new MySqlCommand("DELETE FROM notes WHERE id=@id
AND uploaded_by=@u", conn))
{
    conn.Open();
    cmd.Parameters.AddWithValue("@id", id);
    cmd.Parameters.AddWithValue("@u", Convert.ToInt32(Session["UserId"]));
    var rows = cmd.ExecuteNonQuery();
    if (rows > 0)
    {
        // remove file
        if (!string.IsNullOrEmpty(path))
        {
            var physical = Server.MapPath("~/" + path.Replace("/", "\\"));
            if (File.Exists(physical)) File.Delete(physical);
        }
        Response.Redirect("Index.aspx");
        return;
    }
}
litMsg.Text = "<div class='alert'>Delete failed.</div>";
}
```

## 19.Details.aspx

```
<%@ Page Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"  
CodeBehind="Details.aspx.cs" Inherits="NotesSharingWebForms.Pages.Notes.Notes" %>  
  
<asp:Content ID="Content1" ContentPlaceHolderID="MainContent" runat="server">  
    <div class="container">  
        <h2>Note Details</h2>  
  
        <p><strong>ID:</strong> <asp:Literal ID="litId" runat="server" /></p>  
        <p><strong>Title:</strong> <asp:Literal ID="litTitle" runat="server" /></p>  
        <p><strong>File:</strong> <asp:HyperLink ID="lnkFile" runat="server"  
            Text="Download PDF" Target="_blank" /></p>  
        <p><strong>Uploaded By:</strong> <asp:Literal ID="litUploader" runat="server"  
        /></p>  
        <p><strong>Uploaded At:</strong> <asp:Literal ID="litTime" runat="server" /></p>  
  
        <p>  
            <a class="btn" href="All.aspx">Back to All</a>  
            <a class="btn" href="Index.aspx">Back to My Notes</a>  
        </p>  
    </div>  
</asp:Content>
```

## 20.Details.aspx.cs

```
using System;  
using MySql.Data.MySqlClient;  
  
namespace NotesSharingWebForms.Pages.Notes  
{  
    public partial class Details : System.Web.UI.Page
```

```

{
    string ConnStr =>
System.Configuration.ConfigurationManager.ConnectionStrings[" MySqlConn"].ConnectionString;

protected void Page_Load(object sender, EventArgs e)
{
    if (!IsPostBack) LoadDetails();
}

void LoadDetails()
{
    if (!int.TryParse(Request.QueryString["id"], out int id)) {
        Response.Redirect("All.aspx"); return; }

string sql = @"SELECT n.id, n.title, n.file_path, n.upload_time, u.name AS uploader
                FROM notes n INNER JOIN users u ON u.id=n.uploaded_by
                WHERE n.id=@id";
using (var conn = new MySqlConnection(ConnStr))
using (var cmd = new MySqlCommand(sql, conn))
{
    conn.Open();
    cmd.Parameters.AddWithValue("@id", id);
    using (var r = cmd.ExecuteReader())
    {
        if (r.Read())
        {
            litId.Text = r["id"].ToString();
            litTitle.Text = r["title"].ToString();
            lnkFile.NavigateUrl = r["file_path"].ToString();
            litUploader.Text = r["uploader"].ToString();
        }
    }
}

```

```
litTime.Text = Convert.ToDateTime(r["upload_time"]).ToString("yyyy-MM-  
dd HH:mm");  
}  
  
else  
{  
    Response.Redirect("All.aspx");  
}  
}  
}  
}  
}  
}
```

21.Edit.aspx

```
<%@ Page Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"  
CodeBehind="Edit.aspx.cs" Inherits="NotesSharingWebForms.Pages.Notes.Edit" %>
```

```
<asp:Content ID="Content1" ContentPlaceHolderID="MainContent" runat="server">
    <div class="container">
        <h2>Edit Note</h2>
        <asp:Literal ID="litMsg" runat="server" />
        <asp:HiddenField ID="hidId" runat="server" />
        <br /><br />
        <label>Title</label>
        <asp:TextBox ID="txtTitle" runat="server" CssClass="input" />
        <br /><br />
        <label>Replace PDF (optional)</label>
        <asp:FileUpload ID="fu" runat="server" />
        <br /><br />
```

```

<asp:Button ID="btnSave" runat="server" Text="Save Changes" CssClass="btn btn-primary" OnClick="btnSave_Click" />
<a class="btn" href="Index.aspx">Back</a>
</div>
</asp:Content>

```

## 22>Edit.aspx.cs

```

using System;
using System.IO;
using MySql.Data.MySqlClient;

namespace NotesSharingWebForms.Pages.Notes
{
    public partial class Edit : System.Web.UI.Page
    {
        string ConnStr =>
            System.Configuration.ConfigurationManager.ConnectionStrings[" MySqlConn"].ConnectionString;

        protected void Page_Load(object sender, EventArgs e)
        {
            if (Session["UserId"] == null) Response.Redirect("../Account/Login.aspx");
            if (!IsPostBack) LoadNote();
        }

        void LoadNote()
        {
            if (!int.TryParse(Request.QueryString["id"], out int id)) {
                Response.Redirect("Index.aspx"); return; }
            hidId.Value = id.ToString();

            using (var conn = new MySqlConnection(ConnStr))

```

```

        using (var cmd = new MySqlCommand("SELECT title, file_path, uploaded_by
FROM notes WHERE id=@id", conn))
{
    conn.Open();
    cmd.Parameters.AddWithValue("@id", id);
    using (var r = cmd.ExecuteReader())
    {
        if (r.Read())
        {
            // only owner can edit
            int owner = Convert.ToInt32(r["uploaded_by"]);
            if (owner != Convert.ToInt32(Session["UserId"]))
                Response.Redirect("Index.aspx");

            txtTitle.Text = r["title"].ToString();
            ViewState["OldFilePath"] = r["file_path"].ToString();
        }
        else Response.Redirect("Index.aspx");
    }
}

protected void btnSave_Click(object sender, EventArgs e)
{
    if (!int.TryParse(hidId.Value, out int id)) { Response.Redirect("Index.aspx"); return; }

    string newTitle = txtTitle.Text.Trim();
    if (newTitle == "") { litMsg.Text = "<div class='alert'>Title is required.</div>";
    return; }

    string filePath = ViewState["OldFilePath"] as string ?? "";

```

```

if (fu.HasFile)
{
    var ext = Path.GetExtension(fu.FileName).ToLowerInvariant();
    if (ext != ".pdf") { litMsg.Text = "<div class='alert'>Only PDF allowed.</div>";
return; }

// delete old
if (!string.IsNullOrEmpty(filePath))
{
    var physicalOld = Server.MapPath("~/" + filePath.Replace("/", "\\"));
    if (File.Exists(physicalOld)) File.Delete(physicalOld);
}

// save new
var guid = Guid.NewGuid().ToString() + ".pdf";
var physicalNew = Server.MapPath("~/Uploads/" + guid);
fu.SaveAs(physicalNew);
filePath = "/uploads/" + guid;
}

using (var conn = new MySqlConnection(ConnStr))
using (var cmd = new MySqlCommand("UPDATE notes SET title=@t, file_path=@p
WHERE id=@id AND uploaded_by=@u", conn))
{
    conn.Open();
    cmd.Parameters.AddWithValue("@t", newTitle);
    cmd.Parameters.AddWithValue("@p", filePath);
    cmd.Parameters.AddWithValue("@id", id);
    cmd.Parameters.AddWithValue("@u", Convert.ToInt32(Session["UserId"]));
    var rows = cmd.ExecuteNonQuery();
}

```

```

        if (rows == 0) { litMsg.Text = "<div class='alert'>Update failed or not
authorized.</div>"; return; }

    }

}

}

```

### 23.Index.aspx

```

<%@ Page Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="Index.aspx.cs" Inherits="NotesSharingWebForms.Pages.Notes.Index" %>

<asp:Content ID="Content1" ContentPlaceHolderID="MainContent" runat="server">
    <div class="container">
        <h2>My Notes</h2>
        <p>
            <a class="btn btn-primary" href="Create.aspx">+ Upload New</a>
        </p>
        <asp:Literal ID="litMsg" runat="server" />
        <asp:GridView ID="gvMyNotes" runat="server" AutoGenerateColumns="False"
        CssClass="table">
            <Columns>
                <asp:BoundField DataField="id" HeaderText="ID" />
                <asp:BoundField DataField="title" HeaderText="Title" />
                <asp:HyperLinkField DataTextField="file_path" HeaderText="File"
                DataNavigateUrlFields="file_path" Text="Download" />
                <asp:BoundField DataField="upload_time" HeaderText="Uploaded"
                DataFormatString="{0:yyyy-MM-dd HH:mm}" />
            
```

```

<asp:HyperLinkField HeaderText="View" Text="Details"
DataNavigateUrlFields="id" DataNavigateUrlFormatString="Details.aspx?id={0}" />
<asp:HyperLinkField HeaderText="Edit" Text="Edit" DataNavigateUrlFields="id"
DataNavigateUrlFormatString="Edit.aspx?id={0}" />
<asp:HyperLinkField HeaderText="Delete" Text="Delete"
DataNavigateUrlFields="id" DataNavigateUrlFormatString="Delete.aspx?id={0}" />
</Columns>
</asp:GridView>
</div>
</asp:Content>

```

## 24.Index.aspx.cs

```

using System;
using System.Data;
using MySql.Data.MySqlClient;

namespace NotesSharingWebForms.Pages.Notes
{
    public partial class Index : System.Web.UI.Page
    {
        string ConnStr =>
System.Configuration.ConfigurationManager.ConnectionStrings[" MySqlConn"].ConnectionString;
    }

    protected void Page_Load(object sender, EventArgs e)
    {
        if (Session["UserId"] == null) Response.Redirect("../Account/Login.aspx");
        if (!IsPostBack) LoadMyNotes();
    }

    void LoadMyNotes()

```

```

    {
        using (var conn = new MySqlConnection(ConnStr))
        using (var da = new MySqlDataAdapter("SELECT id, title, file_path, upload_time
FROM notes WHERE uploaded_by=@u ORDER BY upload_time DESC", conn))
        {
            da.SelectCommand.Parameters.AddWithValue("@u",
Convert.ToInt32(Session["UserId"]));
            var dt = new DataTable();
            da.Fill(dt);
            gvMyNotes.DataSource = dt;
            gvMyNotes.DataBind();
        }
    }
}

```

## 25.Site.master

```
<%@ Master Language="C#" AutoEventWireup="true" CodeBehind="Site.Master.cs"
Inherits="NotesSharingWebForms.Site" %>
```

```

<!DOCTYPE html>
<html lang="en">
<head runat="server">
    <meta charset="utf-8" />
    <title>Notes Sharing</title>
    <link href("~/Styles/site.css" rel="stylesheet" />
</head>
<body>
    <form id="form1" runat="server">
        <div class="navbar">
            <ul class="nav">

```

```

<li><a runat="server" CssClass="nav-link" ID="LoginLink"
href("~/Pages/Account/Login.aspx">Login</a></li>

<li><a runat="server" CssClass="nav-link" ID="RegisterLink"
href "~/Pages/Account/Register.aspx">Register</a></li>

<li><a runat="server" CssClass="nav-link" ID="AllNotesLink"
href "~/Pages/Notes/All.aspx">All Notes</a></li>

<li><a runat="server" CssClass="nav-link" ID="DashboardLink"
href "~/Pages/Notes/Index.aspx">Dashboard</a></li>

<li><a runat="server" CssClass="nav-link" ID="UploadLink"
href "~/Pages/Notes/Create.aspx">Upload Notes</a></li>

<li><a runat="server" CssClass="nav-link" ID="ProfileLink"
href "~/Pages/Account/Profile.aspx">Profile</a></li>

```

```

</ul>

<span class="nav>Welcome">
<asp:Literal ID="litWelcome" runat="server" />
</span>
</div>

<asp:ContentPlaceHolder ID="MainContent" runat="server" />
</form>
</body>
</html>

```

## 26.Site.Master.cs

```

using System;

namespace NotesSharingWebForms
{
    public partial class Site : System.Web.UI.MasterPage

```

```
{  
protected void Page_Load(object sender, EventArgs e)  
{  
    bool isLoggedIn = Session["UserId"] != null;  
  
    if (isLoggedIn)  
    {  
        //  Show for logged-in users  
        LoginLink.Visible = false;  
        RegisterLink.Visible = false;  
        AllNotesLink.Visible = true;  
        DashboardLink.Visible = true;  
        UploadLink.Visible = true;  
        ProfileLink.Visible = true;  
  
        // Show Welcome message  
        litWelcome.Text = $"<span class='welcome'>Welcome,  
{Session["UserName"]}</span>";  
    }  
    else  
    {  
        //  Show for visitors  
        LoginLink.Visible = true;  
        RegisterLink.Visible = true;  
        AllNotesLink.Visible = true;  
        DashboardLink.Visible = false;  
        UploadLink.Visible = false;  
  
        litWelcome.Text = "";  
    }  
}
```

```
    }
}
}
}
```

## 26.Web.Config

```
<?xml version="1.0"?>
<configuration>
  <connectionStrings>
    <!-- Change uid/pwd as per your MySQL credentials -->
    <add name=" MySqlConn "
      connectionString="Server=localhost;Port=3306;Database=notesdb;Uid=root;Pwd=;SslMode=None;Allow User Variables=True;CharSet=utf8mb4;" 
      providerName=" MySql.Data.MySqlClient " />
  </connectionStrings>

  <appSettings>
    <!-- Virtual folder that is stored physically at ~/Uploads -->
    <add key="UploadsVirtualRoot" value="/uploads" />
  </appSettings>

  <system.web>
    <compilation debug="true" targetFramework="4.8" />
    <!-- Allow bigger uploads if required -->
    <httpRuntime targetFramework="4.8" maxRequestLength="51200"
      executionTimeout="3600" requestValidationMode="2.0" />
    <pages validateRequest="false" />

    <!-- Simple forms auth cookie (optional). Using Session checks in code as well. -->
    <authentication mode="Forms">
```

```
<forms loginUrl="~/Pages/Account/Login.aspx" timeout="2880" />
</authentication>
<authorization>
<deny users="?" />
</authorization>
</system.web>

<!-- Allow anonymous access for login/register/home/all notes -->
<location path="Default.aspx">
<system.web><authorization><allow users="*"/></authorization></system.web>
</location>
<location path="Pages/Account/Login.aspx">
<system.web><authorization><allow users="*"/></authorization></system.web>
</location>
<location path="Pages/Account/Register.aspx">
<system.web><authorization><allow users="*"/></authorization></system.web>
</location>
<location path="Pages/Notes/All.aspx">
<system.web><authorization><allow users="*"/></authorization></system.web>
</location>
<location path="Uploads">
<system.web><authorization><allow users="*"/></authorization></system.web>
</location>

<system.webServer>
<!-- No need to redefine mimeMap for .pdf, IIS already supports it -->
</system.webServer>
</configuration>
```

# Output

### Login

Email  
paras.chaudhari7111@gmail.com

Password  
...

[Login](#) [Register](#)

All Notes Dashboard Upload Notes Profile Welcome, aa

### All Notes

ID	Title	File	Uploaded By	Uploaded	Details
11	1	<a href="#">Download</a>	aa	2025-09-03 16:30	<a href="#">View</a>
9	hh	<a href="#">Download</a>	aa	2025-09-03 15:28	<a href="#">View</a>
8	hh	<a href="#">Download</a>	Paras	2025-09-03 15:20	<a href="#">View</a>
7	idk	<a href="#">Download</a>	Paras	2025-08-31 14:55	<a href="#">View</a>
6	CA2	<a href="#">Download</a>	Paras	2025-08-30 13:39	<a href="#">View</a>
5	Idk	<a href="#">Download</a>	King711	2025-08-30 01:12	<a href="#">View</a>
2	idc	<a href="#">Download</a>	Paras	2025-08-27 00:27	<a href="#">View</a>

All Notes Dashboard Upload Notes Profile Welcome, aa

### My Notes

[+ Upload New](#)

ID	Title	File	Uploaded	View	Edit	Delete
11	1	<a href="#">uploads/69a1c4c0-bb09-41a0-bda9-ccdf4f318db0.pdf</a>	2025-09-03 16:30	<a href="#">Details</a>	<a href="#">Edit</a>	<a href="#">Delete</a>

**Upload Note (PDF)**

Title

Ca2

PDF File

 Choose File 8112\_Paras\_Chaudhari.pdf Upload  Back**My Profile****Name:** aa**Email:** paras.chaudhari7111@gmail.com Logout**Notes Sharing Portal** Browse All Notes  Login  Register

### Register

Name

Email

Password

[Create Account](#) [Back to Login](#)



### Note Details

ID: 12

Title: Ca2

File: [Download PDF](#)

Uploaded By: aa

Uploaded At: 2025-09-03 18:47

[Back to All](#) [Back to My Notes](#)

All Notes Dashboard Upload Notes Profile Welcome, aa

### Edit Note

Title

Replace PDF (optional)  
 No file chosen

[Save Changes](#) [Back](#)

**Delete Note**

Are you sure you want to delete this note?

ID: 11

Title: 1

[Yes, Delete](#)[Cancel](#)

## Conclusion

The **Online Notes Sharing Portal** successfully provides a platform for collaborative learning, allowing users to upload, manage, and access study materials in a secure and user-friendly manner. It ensures proper login, user-specific operations, and global access to notes for all authenticated users.

### Key achievements:

- Implemented user authentication and session handling using ASP.NET WebForms sessions.
- Designed CRUD operations with strict access control, allowing only the uploader to edit or delete their notes.
- Enabled file uploads with validation, unique storage, and security for PDF files.
- Built a dynamic UI using WebForms controls like GridView, Literal, HyperLink, and FileUpload, integrated with MySQL.

Overall, this portal is a practical implementation of **ASP.NET WebForms with MySQL**, demonstrating real-world web development concepts such as authentication, file handling, session management, and database integration. It serves as a learning tool for understanding server-side event-driven web applications and secure resource sharing.