

EVENT – DRIVEN PROGRAMMING
1st SEMESTER, A.Y. 2023 – 2024

PROJECT DOCUMENTATION

DESIGN VIEW



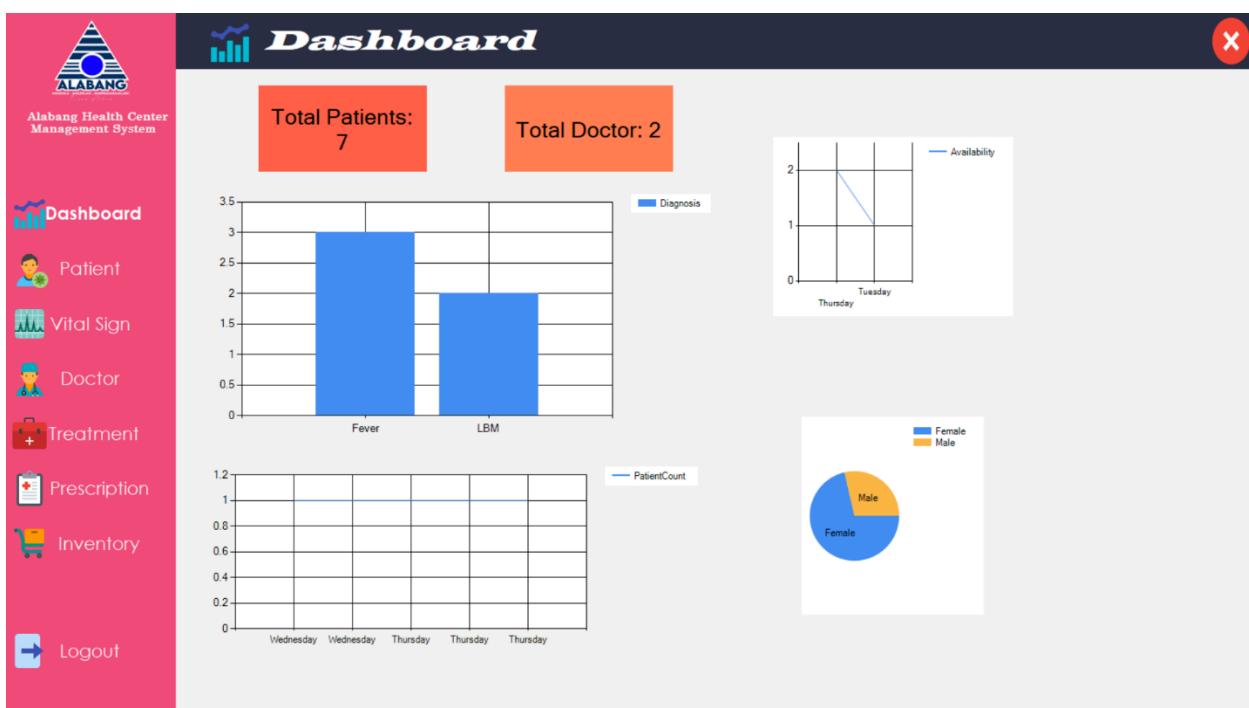
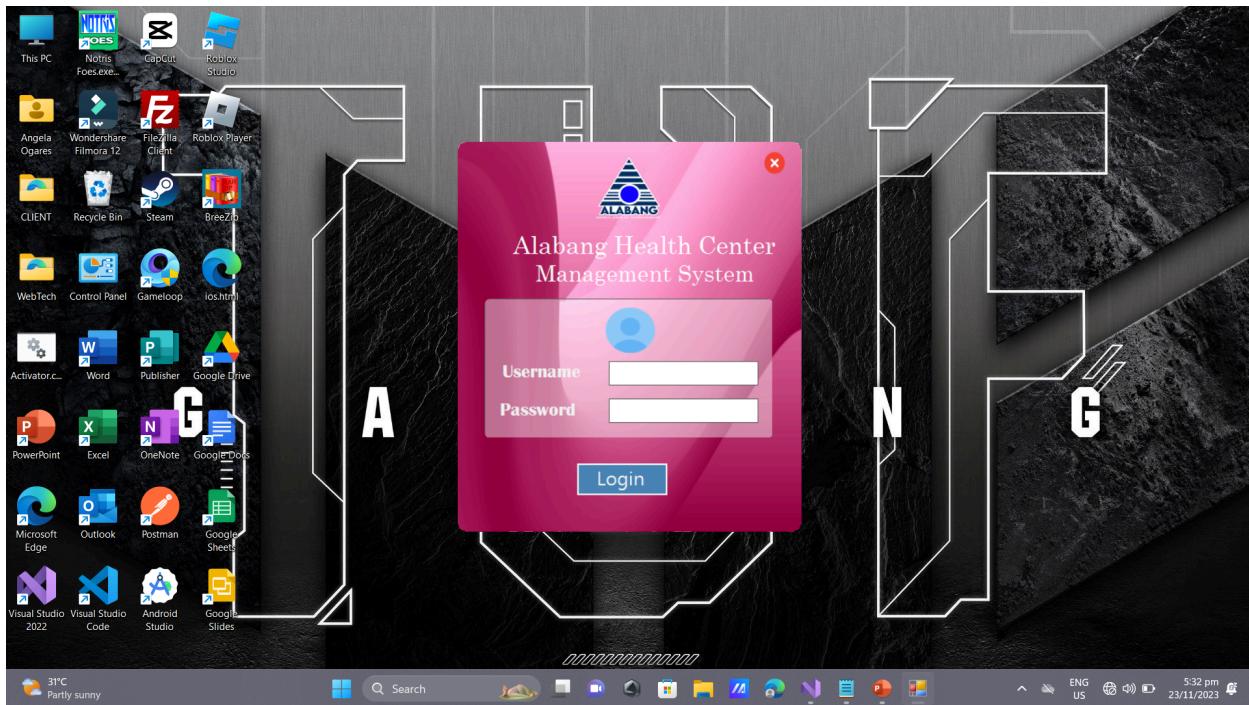
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ANGEL PABLO
ROSELLE ESBRA
HAZEL DURAN

Section: **BSIT**

MARY ANGEL ABEGAIL SALES,
JOVELYN ORTIGUERO,
JEROME HASAL,
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EVENT – DRIVEN PROGRAMMING

1st SEMESTER, A.Y. 2023 – 2024



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Alabang Health Center Management System

- [!\[\]\(a0eef730b3b4a22497288ba41caafa68_img.jpg\) Dashboard](#)
- [!\[\]\(3cfe8cf8af4b11d09edd36ec455dd31f_img.jpg\) Patient](#)
- [!\[\]\(1de20955e93debc731ddd17bff5f2d06_img.jpg\) Vital Sign](#)
- [!\[\]\(2defd2c26ef56d63c571e181504daf92_img.jpg\) Doctor](#)
- [!\[\]\(7a7d4d31ddea09560ffbb1ccbcb2f6a7_img.jpg\) Treatment](#)
- [!\[\]\(293670dd5d9ab49e53dfde860ff6630e_img.jpg\) Prescription](#)

- [!\[\]\(505f3de60a00323d377f0b58cfbfe0c7_img.jpg\) Logout](#)

Patient

First Name	<input type="text"/>	Date of Birth	<input type="text" value="28/11/2023"/>
Middle Name	<input type="text"/>	Gender	<input type="text"/>
Last Name	<input type="text"/>	Address	<input type="text"/>
Contact Number	<input type="text"/>	Age	<input type="text"/>

 Save
 Edit
 Delete

 Search

PatId	Fname	Mname	Lname	ConN	Dob	Gender	Address	Age
100	Aira	Abellar	Ogares	09617822736	12/06/2018	Female	Filinvest	5 yrs old
101	Aira	Hope	Ogares	09617822736	12/06/2018	Female	Bless	5 yrs old
102	Angela	Abellar	Ogares	09617822736	12/11/2002	Female	Bless	21 yrs old



Alabang Health Center Management System

- [!\[\]\(1553f535ccb7d32849a6ed47dc24f510_img.jpg\) Dashboard](#)
- [!\[\]\(45205b5d1865e11175e120852cd742b1_img.jpg\) Patient](#)
- [!\[\]\(6b388bc32a5335312d2603b274c004be_img.jpg\) Vital Sign](#)
- [!\[\]\(e298d6cf836ff3287dd906354e473a99_img.jpg\) Doctor](#)
- [!\[\]\(a86c877738bf7ac20e73c200684da061_img.jpg\) Treatment](#)
- [!\[\]\(65d90377bfd5b4d5d5bc50c363df1d44_img.jpg\) Prescription](#)

- [!\[\]\(a5f4f165a5fec147c77ce38217500954_img.jpg\) Logout](#)

Vital Signs

Patient ID	<input type="text" value="100"/>	Contact Number	<input type="text"/>	Weight	<input type="text"/>
Middle Name	<input type="text"/>	Age	<input type="text"/>	Blood Pressure	<input type="text"/>
Last Name	<input type="text"/>	What Allergies do you have ?	<input type="text"/>	Body Temperature	<input type="text"/>

 Save
 Edit
 Delete

 Search

VitalId	PatId	PFName	PMName	PLName	ConN	Age	wAllergies	weight	BloodP	BodyT	RecordDate
100	100	Aira	Abellar	Ogares	09617822736	5 yrs old	None	60kg	120/80	31	22/11/2023 1:00:00 AM
101	101	Aira	Hope	Ogares	09617822736	5 yrs old	None	50	110/80	32	22/11/2023 6:00:00 PM
102	102	Angela	Abellar	Ogares	09617822736	21 yrs old	None	60kg	120/80	31	23/11/2023 8:00:00 AM

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ALABANG
 Alabang Health Center
 Management System

Doctor

First Name
 Middle Name
 Last Name
 Contact Number

Date of Birth
 Gender
 Address
 Specialization

Save
 Update
 Delete

Search

DocId	Fname	Mname	Lname	ConN	Dob	Gender	Address	Specialization
103	Jay	Cris	Browny	09617822736	18/02/1979	Male	Bliss	Pediatric
104	Nicole	Fajardo	Betuin	09617822736	04/04/2005	Female	Bliss	Pediatric
•								

Logout
 X


ALABANG
 Alabang Health Center
 Management System

Treatment

Patient
 100
 First Name of Patient
 Middle Name of Patient
 Last Name of Patient

Doctor
 103
 First Name of Doctor
 Middle Name of Doctor
 Last Name of Doctor
 Specialisation

Save
 Edit
 Delete

Search

TreatId	PatId	PFName	PMName	PLName	DocId	DFName	DMName	DLName	Specialization	Symptoms	SSymptoms	MDagnosis	RecordDate
105	100	Ara	Abellar	Ogares	103	Jay	Cris	Browny	Pediatric	Stomach A.	wednesday	Fever	22/11/2023
106	100	Ara	Abellar	Ogares	103	Jay	Cris	Browny	Pediatric	Stomach A.	wednesday	LBM	22/11/2023
107	102	Angela	Abellar	Ogares	104	Nicole	Fajardo	Betuin	Pediatric	Stomach A.	Wednesday	LBM	23/11/2023
•													

Logout
 X

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The screenshot displays two windows of the Alabang Health Center Management System:

- Prescription Window:** This window allows users to input patient information (Patient, Doctor, Treatment), medication details (Buy to Drug Store, Free from Health), and treatment specifications. It includes Save, Update, and Delete buttons, and a search function.
- Inventory Window:** This window allows users to input generic names, expiry dates, and quantities for medications. It includes Save, Edit, and Delete buttons, and a search function.

Both windows share a common sidebar on the left containing links for Dashboard, Patient, Vital Sign, Doctor, Treatment, Prescription, and Logout.

PROGRAM CODES

```

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Runtime.InteropServices;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace Patient_Management_System
{
    public partial class Form1 : Form
    {

```

```

        [DllImport("Gdi32.dll",
        EntryPoint = "CreateRoundRectRgn")]
        private static extern IntPtr
CreateRoundRectRgn
(
    int nLeftRect,      // x-coordinate of upper-left corner
    int nTopRect,       // y-coordinate of upper-left corner
    int nRightRect,     // x-coordinate of lower-right corner
    int nBottomRect,    // y-coordinate of lower-right corner
    int nWidthEllipse, // height of ellipse

```

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```
        int nHeightEllipse // width                }
of ellipse      );
public Form1()
{
    InitializeComponent();
    this.FormBorderStyle =
FormBorderStyle.None;
    Region =
System.Drawing.Region.FromHrgn(CreateR
oundRectRgn(0, 0, Width, Height, 20,
20));
}

private void
pictureBox1_Click(object sender,
EventArgs e)
{
}

int startpoint = 0;

private void
timer1_Tick(object sender, EventArgs
e)
{
    startpoint += 1;
    Myprogress.Value =
startpoint;
    if(Myprogress.Value ==
100)
    {
        Myprogress.Value = 0;
        timer1.Stop();
        Login log = new
Login();
        this.Hide();
        log.Show();
    }
}

private void Form1_Load(object
sender, EventArgs e)
{
    timer1.Start();
}

private void
Myprogress_Click(object sender,
EventArgs e)
{
    Myprogress.ForeColor =
Color.Green;
}
```

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Runtime.InteropServices;
using System.Windows.Shapes;
using System.Drawing.Drawing2D;

namespace Patient_Management_System
{
    public partial class Login : Form
    {
        [DllImport("Gdi32.dll",
EntryPoint = "CreateRoundRectRgn")]
        private static extern IntPtr
CreateRoundRectRgn
(
    int nLeftRect,           //
x-coordinate of upper-left corner
    int nTopRect,            //
y-coordinate of upper-left corner
    int nRightRect,          //
x-coordinate of lower-right corner
    int nBottomRect,         //
y-coordinate of lower-right corner
    int nWidthEllipse,       //
height of ellipse
    int nHeightEllipse ////
width of ellipse
);

        public Login()
        {
            InitializeComponent();
        }
    }
}
```

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```
this.FormBorderStyle =
FormBorderStyle.None;
Region =
System.Drawing.Region.FromHrgn(CreateR
oundRectRgn(0, 0, Width, Height, 20,
20));

}

private void LoginBtn_Click(object
sender, EventArgs e)
{
    if
(ValidateChildren(ValidationConstraint
s.Enabled))
    {
        // Validation successful,
proceed with login logic
        if (UNameTb.Text == "Admin" &&
PasswordTb.Text == "Password")
        {
            Dashboard Obj = new
Dashboard();
            Obj.Show();
            this.Hide();
        }
        else
        {
            MessageBox.Show("Invalid
Credentials!!!");
        }
    }
    else
    {
        // Validation failed, show a
message or handle it accordingly
        MessageBox.Show("Please fill
in all required fields.");
    }
}

private void
Panel2_Paint_1(object sender,
PaintEventArgs e)
{

System.Drawing.Drawing2D.GraphicsPath
path = new
System.Drawing.Drawing2D.GraphicsPath();

// Get the client
rectangle of the panel
System.Drawing.Rectangle
rect = Panel2.ClientRectangle;
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}
// Set the radius for the
rounded corners (adjust as needed)
int radius = 10;

// Add rounded corners to
the GraphicsPath
path.AddArc(rect.X,
rect.Y, radius, radius, 180, 90); // Top-left corner
path.AddArc(rect.Width -
radius, rect.Y, radius, radius, 270,
90); // Top-right corner
path.AddArc(rect.Width -
radius, rect.Height - radius, radius,
radius, 0, 90); // Bottom-right corner
path.AddArc(rect.X,
rect.Height - radius, radius, radius,
90, 90); // Bottom-left corner

// Close the path to
create a closed shape
path.CloseFigure();

// Set the panel's Region
property to the created GraphicsPath
for rounded corners
Panel2.Region = new
Region(path);

int opacity = 110; //
Adjust opacity value (0-255), 0 is
fully transparent, 255 is fully opaque
Color backgroundColor =
Color.FromArgb(opacity, Color.White);
Panel2.BackColor =
backgroundColor;

// Set the border style
and color
Panel2.BorderStyle =
BorderStyle.FixedSingle; // You can
use FixedSingle for a single-line
border
Panel2.ForeColor =
Color.Black; // Set the text color if
needed
Panel2.Padding = new
Padding(1); // Add padding to make the
border visible
}

private void
cancelPicB_Click(object sender,
EventArgs e)
```

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```
{ Application.Exit(); }

private void UNameTb_Validating(object sender, CancelEventArgs e)
{
    string userName = UNameTb.Text.Trim();

    if (string.IsNullOrEmpty(userName))
    {
        // Display an error message
        errorProvider1.SetError(UNameTb, "Username is required.");
        e.Cancel = true;
    }
    else
    {
        // Clear any previous error message
        errorProvider1.SetError(UNameTb, "");
    }
}

private void PasswordTb_Validating(object sender, CancelEventArgs e)
{
    string password = PasswordTb.Text.Trim();

    if (string.IsNullOrEmpty(password))
    {
        // Display an error message
        errorProvider1.SetError(PasswordTb, "Password is required.");
        e.Cancel = true;
    }
    else
    {
        // Clear any previous error message
        errorProvider1.SetError(PasswordTb, "");
    }
}

}

private void UNameTb_KeyPress(object sender, KeyPressEventArgs e)
{
    // Allow only letters, numbers, and underscore in the username
    if (!char.IsLetterOrDigit(e.KeyChar) && e.KeyChar != '_' && !char.IsControl(e.KeyChar))
    {
        e.Handled = true; // Suppress the key press
    }
}

private void PasswordTb_KeyPress(object sender, KeyPressEventArgs e)
{
    // Allow only letters, numbers, and certain special characters in the password
    if (!char.IsLetterOrDigit(e.KeyChar) && !char.IsSymbol(e.KeyChar) && !char.IsPunctuation(e.KeyChar) && !char.IsControl(e.KeyChar))
    {
        e.Handled = true; // Suppress the key press
    }
}

using Hangfire;
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Data.SqlClient;
using System.Drawing;
using System.Globalization;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Windows.Forms.DataVisualization.Charting;
```

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```

namespace Patient_Management_System
{
    public partial class Dashboard : Form
    {
        public Dashboard()
        {
            InitializeComponent();
            DisplayTotalPatients();
            DisplayTotalDoctor();
            this.Load += Dashboard_Load;
        }

        SqlConnection Con = new SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDb
Filename=""C:\Users\Angela
Ogares\OneDrive\Pictures\Documents\DBH
ealthCenter.mdf"";Integrated
Security=True;Connect Timeout=30");

        // Replace
YourConnectionString with your actual
connection string
        private string
YourConnectionString = @"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDb
Filename=""C:\Users\Angela
Ogares\OneDrive\Pictures\Documents\DBH
ealthCenter.mdf"";Integrated
Security=True;Connect Timeout=30";

        private void
Dashboard_Load(object sender,
EventArgs e)
        {
            chart2_Click_1(sender, e);
MDiagnosischart_Click(sender, e);
Inventorychart_Click(sender, e);
            chart2_Click_2(sender, e);
        }

        private void chart2_Click_1(object
sender, EventArgs e)
        {
            // Assuming you have a Chart
control named WeeklyCheckUpChart on
your form
WeeklyCheckUpChart.Series.Clear();
        }
    }
}

// Get treatment data from the
database
DataTable dt =
GetTreatmentData();

// Add a series to the chart
Series series =
WeeklyCheckUpChart.Series.Add("Patient
Count");
series.ChartType =
SeriesChartType.Spline; // Use Spline
chart type

// Add data points to the
series
foreach (DataRow row in
dt.Rows)
{
    string dayOfWeek =
row["DayOfWeek"].ToString();
    int patientCount =
Convert.ToInt32(row["PatientCount"]);

    series.Points.AddXY(dayOfWeek,
patientCount);
}

private DataTable
GetTreatmentData()
{
    DataTable dt = new
DataTable();

    using (SqlConnection con = new
SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDb
Filename=""C:\Users\Angela
Ogares\OneDrive\Pictures\Documents\DBH
ealthCenter.mdf"";Integrated
Security=True;Connect Timeout=30"))
    {
        con.Open();

        string query = @"
SELECT
    DATENAME(WEEKDAY, RecordDate) AS
DayOfWeek,
    COUNT(*) AS PatientCount
FROM
    tblTreatment
GROUP BY
    DATENAME(WEEKDAY, RecordDate),
RecordDate
    "
}
}

```

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```

ORDER BY
CASE
    WHEN DATEPART(WEEKDAY,
RecordDate) = 1 THEN 1 -- Sunday
        WHEN DATEPART(WEEKDAY,
RecordDate) = 2 THEN 2 -- Monday
            WHEN DATEPART(WEEKDAY,
RecordDate) = 3 THEN 3 -- Tuesday
                WHEN DATEPART(WEEKDAY,
RecordDate) = 4 THEN 4 -- Wednesday
                    WHEN DATEPART(WEEKDAY,
RecordDate) = 5 THEN 5 -- Thursday
                        WHEN DATEPART(WEEKDAY,
RecordDate) = 6 THEN 6 -- Friday
                            WHEN DATEPART(WEEKDAY,
RecordDate) = 7 THEN 7 -- Saturday
                                ELSE 8 -- For any unexpected
values
END";

```

```

        using (SqlCommand cmd =
new SqlCommand(query, con))
{
    using (SqlDataAdapter
da = new SqlDataAdapter(cmd))
    {
        da.Fill(dt);
    }
}

return dt;
}

private DataTable
GetDiagnosisData()
{
    DataTable dt = new
DataTable();

    using (SqlConnection con =
new SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDb
Filename=""C:\Users\Angela
Ogares\OneDrive\Pictures\Documents\DBH
ealthCenter.mdf"";Integrated
Security=True;Connect Timeout=30"))
    {
        con.Open();

        string query = "SELECT
MDiagnosis, COUNT(*) AS DiagnosisCount
FROM tblTreatment GROUP BY
MDiagnosis";

```

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```

        using (SqlCommand cmd =
new SqlCommand(query, con))
{
    using (SqlDataAdapter
da = new SqlDataAdapter(cmd))
    {
        da.Fill(dt);
    }
}

return dt;
}

private void
MDiagnosischart_Click(object sender,
EventArgs e)
{
    MDiagnosischart.Series.Clear();

        // Get diagnosis data from
the database
    DataTable dt =
GetDiagnosisData();

        // Add a series to the chart
    Series series =
MDiagnosischart.Series.Add("Diagnosis"
);
    series.ChartType =
SeriesChartType.Column; // Change to
Column chart type

        // Add data points to the
series
    foreach (DataRow row in
dt.Rows)
    {
        string diagnosisType =
row["MDiagnosis"].ToString();
        int diagnosisCount =
Convert.ToInt32(row["DiagnosisCount"]);
        series.Points.AddXY(diagnosisType,
diagnosisCount);
    }
}

private void
DisplayTotalPatients()
{
    try

```

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```

    {
        using (SqlConnection con
= new SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDb
Filename="C:\Users\Angela
Ogares\OneDrive\Pictures\Documents\DBH
ealthCenter.mdf";Integrated
Security=True;Connect Timeout=30"))
        {
            con.Open();

            string query =
"SELECT COUNT(*) AS TotalPatients FROM
PatientTbl";

            using (SqlCommand cmd
= new SqlCommand(query, con))
            {
                int totalPatients
= (int)cmd.ExecuteScalar();

                // Assuming you
have a label named totalPatientsLabel
in the TotalPatientpanel

                TotalPatientLabel.Text = $"Total
Patients: {totalPatients}";
            }
        }
    catch (Exception ex)
    {
        // Handle exceptions as
needed
        MessageBox.Show($"Error:
{ex.Message}", "Error",
MessageBoxButtons.OK,
MessageBoxIcon.Error);
    }
}

private void DisplayTotalDoctor()
{
    try
    {
        using (SqlConnection con
= new SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDb
Filename="C:\Users\Angela
Ogares\OneDrive\Pictures\Documents\DBH
ealthCenter.mdf";Integrated
Security=True;Connect Timeout=30"))
        {
            con.Open();

            string query =
"SELECT COUNT(*) AS TotalDoctor FROM
DocTbl";

            using (SqlCommand cmd
= new SqlCommand(query, con))
            {
                int totalDoctor =
(int)cmd.ExecuteScalar();
                // Assuming you
have a label named TotalDoctorLabel
                TotalDoctorLabel.Text = $"Total
Doctor: {totalDoctor}";
            }
        }
    catch (Exception ex)
    {
        // Handle exceptions as
needed
        MessageBox.Show($"Error:
{ex.Message}", "Error",
MessageBoxButtons.OK,
MessageBoxIcon.Error);
    }
}

```

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```

        // Assuming you
have a label named TotalPatientLabel

TotalDoctorLabel.Text = $"Total
Doctor: {totalDoctor}";
    }
}
catch (Exception ex)
{
    // Handle exceptions as
needed
    MessageBox.Show($"Error:
{ex.Message}", "Error",
MessageBoxButtons.OK,
MessageBoxIcon.Error);
}

private void
DisplayGenderPieChart()
{
    try
    {
        // Open the database
connection
        Con.Open();

        // SQL query to get
gender counts
        string query = "SELECT
Gender, COUNT(*) AS Count FROM
PatientTbl GROUP BY Gender";

        using (SqlCommand cmd =
new SqlCommand(query, Con))
        {
            // Execute the query
and read the results
            SqlDataReader reader
= cmd.ExecuteReader();

            // Clear existing
series and points
            chart2.Series.Clear();

            chart2.Series.Add("Gender");

            // Set the chart
type to Pie
            chart2.Series["Gender"].ChartType =
SeriesChartType.Pie;
        }

        // Add data points
to the series
        while
(reader.Read())
        {
            string gender =
reader["Gender"].ToString();
            int count =
Convert.ToInt32(reader["Count"]);

            chart2.Series["Gender"].Points.AddXY(g
ender, count);
        }
    }
    catch (Exception ex)
    {
        MessageBox.Show("Error:
" + ex.Message);
    }
    finally
    {
        // Close the database
connection
        Con.Close();
    }
}

private void
chart2_Click_2(object sender,
EventArgs e)
{
    // Call the method to
display the pie chart
    DisplayGenderPieChart();
}

private void DisplayInvent()
{
    Con.Open();

    // Get the availability
count for each day of the week
    string Query =
"SELECT " +
"DATENAME(WEEKDAY,
Inventorytbl.RecordDate) AS Weekday, "
+
"COUNT(*) AS
AvailabilityCount " +
"FROM " +
"Inventorytbl " +
"LEFT JOIN " +

```

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JEROME HASAL,
NICOLE ANN GUITIERREZ

EVENT – DRIVEN PROGRAMMING

1st SEMESTER, A.Y. 2023 – 2024

```

        "tblPrescription
ON Inventorytbl.InvenId =
tblPrescription.InvenId " +
    "WHERE " +
"tblPrescription.Source = 'Free' " +
    "GROUP BY " +
        "DATENAME(WEEKDAY,
Inventorytbl.RecordDate)";

        SqlDataAdapter sda = new
SqlDataAdapter(Query, Con);
        DataTable
availabilityDataTable = new
DataTable();
sda.Fill(availabilityDataTable);

        // Set up the chart
Inventorychart.Series.Clear();

Inventorychart.Series.Add("Availabilit
y");

Inventorychart.Series["Availability"].Points.DataBindXY(availabilityDataTable
e.Rows, "Weekday",
availabilityDataTable.Rows,
"AvailabilityCount");

Inventorychart.Series["Availability"].ChartType = SeriesChartType.Line;

Inventorychart.ChartAreas[0].AxisX.Int
erval = 1;

        Con.Close();
}

private void
Inventorychart_Click(object sender,
EventArgs e)
{
    DisplayInvent();
}

private void
DashboardBtn_Click(object sender,
EventArgs e)
{
    // Bypass validation for
navigation
    if (!PerformValidation())
{
}

```

Submitted by: **ANGELA OGARES**
ANGEL PABLO
ROSELLE ESBRA
HAZEL DURAN

Section: **BSIT**

```

        Dashboard log = new
Dashboard();
log.Show();
this.Hide();
}

        // Add a method for
conditional validation
private bool
PerformValidation()
{
    // Your validation logic
here
    // Return true if
validation fails, false otherwise
    return false;
}

private void
PatientBtn_Click(object sender,
EventArgs e)
{
    Patient Pat = new
Patient();
Pat.Show();
this.Hide();
}

private void
VitalBtn_Click(object sender,
EventArgs e)
{
    Vital_Signs log = new
Vital_Signs();
log.Show();
this.Hide();
}

private void
DoctorBtn_Click(object sender,
EventArgs e)
{
    Doctor Doc = new Doctor();
Doc.Show();
this.Hide();
}

private void
TreatmentBtn_Click(object sender,
EventArgs e)
{
    Treatment Treat = new
Treatment();
Treat.Show();
}

```

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```

        this.Hide();
    }

    private void
PrescriptionBtn_Click(object sender,
EventArgs e)
{
    Prescription Presc = new
Prescription();
    Presc.Show();
    this.Hide();
}

    private void
Inventorybtn_Click(object sender,
EventArgs e)
{
    Inventory Invent = new
Inventory();
    Invent.Show();
    this.Hide();
}

    private void
button7_Click(object sender, EventArgs
e)
{
    Login log = new Login();
    log.Show();
    this.Hide();
}

    private void
cancelPicB_Click(object sender,
EventArgs e)
{
    Application.Exit();
}
}

using System;
using System.Collections;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Data.SqlClient;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

```

Submitted by: **ANGELA OGARES**
ANGEL PABLO
ROSELLE ESBRA
HAZEL DURAN

Section: **BSIT**

```

namespace Patient_Management_System
{
    public partial class Patient :
Form
{
    public Patient()
    {
        InitializeComponent();
        DisplayPat();
        SearchTB.TextChanged +=
SearchTB_TextChanged;
        PatDOBDate.ValueChanged +=
PatDOBDate_ValueChanged;
        VitalBtn.CausesValidation =
false; DoctorBtn.CausesValidation =
false; PatientBtn.CausesValidation =
false; DashboardBtn.CausesValidation =
false; TreatmentBtn.CausesValidation =
false; button7.CausesValidation =
false; PrescriptionBtn.CausesValidation =
false; cancelPicB.CausesValidation =
false;
    }

    SqlConnection Con = new
SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDb
Filename=""C:\Users\Angela
Ogares\OneDrive\Pictures\Documents\DBH
ealthCenter.mdf"";Integrated
Security=True;Connect Timeout=30");
    private void DisplayPat()
    {
        Con.Open();
        string Query = "Select *
From PatientTbl";
        SqlDataAdapter sda = new
SqlDataAdapter(Query, Con);
        SqlCommandBuilder builder =
new SqlCommandBuilder(sda);
        var ds = new DataSet();
        sda.Fill(ds);
        PatientDgv.DataSource =
ds.Tables[0];
    }
}
```

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```
        Con.Close();

        patientDataTable =
GetDataFromDatabase(); // Implement
this method to fetch data

        // Bind the DataTable to
the DataGridView
        PatientDgv.DataSource =
patientDataTable;
    }

    private DataTable
GetDataFromDatabase()
{
    DataTable dataTable = new
DataTable();

    try
    {
        Con.Open();
        string query = "SELECT
* FROM PatientTbl";
        SqlDataAdapter adapter
= new SqlDataAdapter(query, Con);

        adapter.Fill(dataTable);
    }
    catch (Exception ex)
    {

        MessageBox.Show(ex.Message);
    }
    finally
    {
        Con.Close();
    }

    return dataTable;
}

private void Clear()
{
    PatFNameTB.Text = "";
    PatMNameTb.Text = "";
    PatLNameTb.Text = "";
    PatConNumTb.Text = "";
    GenCb.SelectedIndex = 0;
    PatAddresTb.Text = "";
    PatAgeTb.Text = "";
    key = 0;
}
```

```
        private DataTable
patientDataTable;

        private void
SaveBtn_Click_2(object sender,
EventArgs e)
{
    // Trigger validation for
child controls
    if
(ValidateChildren(ValidationConstraint
s.Enabled))
    {
        // Validation
successful, proceed with the save
logic
        if (PatFNameTB.Text ==
"" || PatMNameTb.Text == "" ||
PatLNameTb.Text == "" || PatConNumTb.Text == "" ||
GenCb.SelectedIndex == -1 || PatAddresTb.Text == "" ||
PatAgeTb.Text == ""))
        {

            MessageBox.Show("Missing
Information");
        }
        else
        {
            try
            {
                Con.Open();

                SqlCommand
checkCmd = new SqlCommand("SELECT
COUNT(*) FROM PatientTbl WHERE
Fname=@PF AND Mname=@PM AND Lname=@PL
AND ConN=@PC AND Dob=@PD AND
Gender=@PG AND Address=@PA AND
Age=@A", Con);

                checkCmd.Parameters.AddWithValue("@PF"
, PatFNameTB.Text);

                checkCmd.Parameters.AddWithValue("@PM"
, PatMNameTb.Text);

                checkCmd.Parameters.AddWithValue("@PL"
, PatLNameTb.Text);

                checkCmd.Parameters.AddWithValue("@PC"
, PatConNumTb.Text);
```

Submitted by: **ANGELA OGARES**
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```

checkCmd.Parameters.AddWithValue("@PD"
, PatDOBDate.Value.Date);

checkCmd.Parameters.AddWithValue("@PG"
, GenCb.SelectedItem);

checkCmd.Parameters.AddWithValue("@PA"
, PatAddresTb.Text);

checkCmd.Parameters.AddWithValue("@A",
PatAgeTb.Text);

        int count =
Convert.ToInt32(checkCmd.ExecuteScalar
());

        if (count > 0)
        {

MessageBox.Show("Duplicate record
found. Please check the values.");
        }
        else
        {
            SqlCommand
cmd = new SqlCommand("Insert Into
PatientTbl
(Fname,Mname,Lname,ConN,Dob,Gender,Add
ress,Age)
values(@PF,@PM,@PL,@PC,@PD,@PG,@PA,@A
", Con);

cmd.Parameters.AddWithValue("@PF",
PatFNameTB.Text);

cmd.Parameters.AddWithValue("@PM",
PatMNameTb.Text);

cmd.Parameters.AddWithValue("@PL",
PatLNameTb.Text);

cmd.Parameters.AddWithValue("@PC",
PatConNumTb.Text);

cmd.Parameters.AddWithValue("@PD",
PatDOBDate.Value.Date);

cmd.Parameters.AddWithValue("@PG",
GenCb.SelectedItem);

cmd.Parameters.AddWithValue("@PA",
PatAddresTb.Text);

```

```

cmd.Parameters.AddWithValue("@A",
PatAgeTb.Text);

cmd.ExecuteNonQuery();

MessageBox.Show("Patient Successfully
Added");

Con.Close();

DisplayPat();

Clear();
}
}
catch (Exception
Ex)
{
    MessageBox.Show(Ex.Message);
}

else
{
    // Validation failed,
    show a message or handle it
    accordingly
    MessageBox.Show("Please
fill in all required fields.");
}

int key = 0;

private void
PatientDgv_CellContentClick_1(object
sender, DataGridViewEventArgs e)
{
    if (e.RowIndex >= 0 &&
e.RowIndex < PatientDgv.Rows.Count)
    {
        if
(PatientDgv.Columns.Count >= 9)
        {
            PatFNameTB.Text =
PatientDgv.Rows[e.RowIndex].Cells[1].V
alue?.ToString();
            PatMNameTb.Text =
PatientDgv.Rows[e.RowIndex].Cells[2].V
alue?.ToString();
            PatLNameTb.Text =
PatientDgv.Rows[e.RowIndex].Cells[3].V
alue?.ToString();

```

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Section: **BSIT**

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```

        PatConNumTb.Text =
PatientDgv.Rows[e.RowIndex].Cells[4].V
alue?.ToString();

        // Check if the
column count is sufficient before
accessing the cell
        if
(PatientDgv.Columns.Count > 5)
{
    string
dobString =
PatientDgv.Rows[e.RowIndex].Cells[5].V
alue?.ToString();
    if
(DateTime.TryParse(dobString, out
DateTime dob))
    {
        PatDOBDate.Value = dob;
    }
}

        GenCb.SelectedItem
=
PatientDgv.Rows[e.RowIndex].Cells[6].V
alue?.ToString();
        PatAddresTb.Text =
PatientDgv.Rows[e.RowIndex].Cells[7].V
alue?.ToString();
        PatAgeTb.Text =
PatientDgv.Rows[e.RowIndex].Cells[8].V
alue?.ToString();

        if (PatFNameTB.Text
== "")
{
    key = 0;
}
else
{
    key =
Convert.ToInt32(PatientDgv.Rows[e.RowIndex].Cells[0].Value?.ToString());
}
}

private void
EditBtn_Click(object sender, EventArgs
e)
{
    if (PatFNameTB.Text == "" ||

PatMNameTb.Text == "" ||

PatLNameTb.Text == "" ||
PatConNumTb.Text == "" ||
GenCb.SelectedIndex == -1 ||
PatAddresTb.Text == "" ||
PatAgeTb.Text == "") {
        MessageBox.Show("Missing
Information");
    }
    else
    {
        try
        {
            Con.Open();
            SqlCommand cmd = new
SqlCommand("Update PatientTbl Set
Fname=@PF, Mname=@PM,
Lname=@PL, ConN=@PC, Dob=@PD,
Gender=@PG, Address=@PA, Age=@A WHERE
PatId=@PKey", Con);

cmd.Parameters.AddWithValue("@PF",
PatFNameTB.Text);

cmd.Parameters.AddWithValue("@PM",
PatMNameTb.Text);

cmd.Parameters.AddWithValue("@PL",
PatLNameTb.Text);

cmd.Parameters.AddWithValue("@PC",
PatConNumTb.Text);

cmd.Parameters.AddWithValue("@PD",
PatDOBDate.Value.Date);

cmd.Parameters.AddWithValue("@PG",
GenCb.SelectedItem);

cmd.Parameters.AddWithValue("@PA",
PatAddresTb.Text);

cmd.Parameters.AddWithValue("@A",
PatAgeTb.Text);

cmd.Parameters.AddWithValue("@PKey",
key);

cmd.ExecuteNonQuery();

MessageBox.Show("Patient Successfully
Update");
Con.Close();
DisplayPat();
}
}
}

```

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```

        Clear();
    }
    catch (Exception Ex)
    {
        MessageBox.Show(Ex.Message);
    }
}

private void
DeleteBtn_Click_3(object sender,
EventArgs e)
{
    if (key == 0)
    {
        MessageBox.Show("Select
Patient");
    }
    else
    {
        try
        {
            Con.Open();
            SqlCommand cmd = new
SqlCommand("Delete From PatientTbl
Where PatId=@PKey", Con);

cmd.Parameters.AddWithValue("@PKey",
key);

cmd.ExecuteNonQuery();

MessageBox.Show("Patient Successfully
Deleted");
            Con.Close();
            DisplayPat();
            Clear();
        }
        catch (Exception Ex)
        {
            MessageBox.Show(Ex.Message);
        }
    }
}

private void
SearchTB_TextChanged(object sender,
EventArgs e)
{
    string searchTerm =
SearchTB.Text.Trim().ToLower();
}

```

```

if
(string.IsNullOrEmpty(searchTerm))
{
    // If the search term is
empty or null, show all records
    DisplayPat();
}
else
{
    // Filter the DataGridView
    // based on the search term
    DataView dv = new
DataView(patientDataTable); //
Assuming doctorDataTable is the
DataTable you bound to the
DataGridView

    // Use a filter string to
match any of the columns
    string filter =
$"CONVERT(PatId, 'System.String') LIKE
'%{searchTerm}%' OR Fname LIKE
'%{searchTerm}%' OR Mname LIKE
'%{searchTerm}%' OR Lname LIKE
'%{searchTerm}%' OR ConN LIKE
'%{searchTerm}%' OR CONVERT(Dob,
'System.String') LIKE '{searchTerm}%' OR
Gender LIKE '{searchTerm}%' OR
Address LIKE '{searchTerm}%' OR Age
LIKE '{searchTerm}%'";
    dv.RowFilter = filter;

    // Update the DataGridView
    // with the filtered data
    PatientDgv.DataSource =
dv.ToTable();
}

private void
PatDOBDate_ValueChanged(object sender,
EventArgs e)
{
    // Calculate age when the
    // date of birth is changed
    DateTime birthdate =
PatDOBDate.Value;
    string age =
CalculateAge(birthdate, DateTime.Now);

    // Display the calculated
    // age in the PatAgeTb TextBox
    PatAgeTb.Text = age;
}

```

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```

        }
        private string
CalculateAge(DateTime birthdate,
DateTime currentDate)
{
    int years = currentDate.Year
- birthdate.Year;
    int months =
currentDate.Month - birthdate.Month;

    // Adjust age if the
birthday hasn't occurred yet this year
    if (birthdate >
currentDate.AddYears(-years))
    {
        years--;
        months += 12; // Add 12
months to the age if the birthday
hasn't occurred
    }

    // Format the age string
    if (years > 0)
    {
        return $"{years} {(years
== 1 ? "year old" : "years old")}";
    }
    else
    {
        return $"{months}
{({months == 1 ? "month old" : "months
old"})}";
    }
}

private void
PatientBtn_Click_1(object sender,
EventArgs e)
{
    Patient Pat = new Patient();
    Pat.Show();
    this.Hide();
}

private void
VitalBtn_Click_1(object sender,
EventArgs e)
{
    Vital_Signs log = new
Vital_Signs();
    log.Show();
    this.Hide();
}

```

```

private void
DoctorBtn_Click_1(object sender,
EventArgs e)
{
    Doctor Doc = new Doctor();
    Doc.Show();
    this.Hide();
}

private void
TreatmentBtn_Click_1(object sender,
EventArgs e)
{
    Treatment Treat = new
Treatment();
    Treat.Show();
    this.Hide();
}

private void
PrescriptionBtn_Click_1(object sender,
EventArgs e)
{
    Prescription Presc = new
Prescription();
    Presc.Show();
    this.Hide();
}

private void
Inventorybtn_Click(object sender,
EventArgs e)
{
    Inventory Invert = new
Inventory();
    Invert.Show();
    this.Hide();
}

private void
cancelPicB_Click_2(object sender,
EventArgs e)
{
    Application.Exit();
}

private void
button7_Click_1(object sender,
EventArgs e)
{
    Login log = new Login();
    log.Show();
    this.Hide();
}

```

Submitted by: **ANGELA OGARES**
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```
private void
DashboardBtn_Click_1(object sender,
EventArgs e)
{
    Dashboard log = new
Dashboard();
    log.Show();
    this.Hide();
}

private void
PatFNameTB_Validating(object sender,
CancelEventArgs e)
{
    if
(string.IsNullOrEmpty(PatFNameTB.Text.
Trim()))
    {

errorProvider1.SetError(PatFNameTB,
"First Name is required.");
        e.Cancel = true;
    }
    else
    {

errorProvider1.SetError(PatFNameTB,
"");
    }
}

private void
PatMNameTb_Validating(object sender,
CancelEventArgs e)
{
    // Validation logic for
middle name
    if
(string.IsNullOrEmpty(PatMNameTb.Text.
Trim()))
    {

errorProvider1.SetError(PatMNameTb,
"Middle Name is required.");
        e.Cancel = true;
    }
    else
    {

errorProvider1.SetError(PatMNameTb,
"");
    }
}

private void
PatLNameTb_Validating(object sender,
CancelEventArgs e)
{
    // Validation logic for last
name
    if
(string.IsNullOrEmpty(PatLNameTb.Text.
Trim()))
    {

errorProvider1.SetError(PatLNameTb,
"Last Name is required.");
        e.Cancel = true;
    }
    else
    {

errorProvider1.SetError(PatLNameTb,
"");
    }
}

private void
PatConNumTb_Validating(object sender,
CancelEventArgs e)
{
    // Validation logic for
contact number
    if
(string.IsNullOrEmpty(PatConNumTb.Text
.Trim()))
    {

errorProvider1.SetError(PatConNumTb,
>Contact Number is required.");
        e.Cancel = true;
    }
    else
    {

errorProvider1.SetError(PatConNumTb,
"");
    }
}

private void
GenCb_Validating(object sender,
CancelEventArgs e)
{
    // Validation logic for
gender ComboBox
    if (GenCb.SelectedIndex ==
-1)
    {
```

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```
errorProvider1.SetError(GenCb, "Please
select a gender.");
        e.Cancel = true;
    }
    else
    {

errorProvider1.SetError(GenCb, "");
}

private void
PatAddresTb_Validate(object sender,
CancelEventArgs e)
{
    // Validation logic for
address
    if
(string.IsNullOrEmpty(PatAddresTb.Text
.Trim())))
    {

errorProvider1.SetError(PatAddresTb,
"Address is required.");
        e.Cancel = true;
    }
    else
    {

errorProvider1.SetError(PatAddresTb,
(""));
}
}

private void
PatAgeTb_Validate(object sender,
CancelEventArgs e)
{
    // Validation logic for age
    if
(string.IsNullOrEmpty(PatAgeTb.Text.Tr
im())))
    {

errorProvider1.SetError(PatAgeTb, "Age
is required.");
        e.Cancel = true;
    }
    else
    {

errorProvider1.SetError(PatAgeTb, "");
}
}
```

Submitted by: **ANGELA OGARES**
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Section: **BSIT**

```
private void
PatFNameTB_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Allowing only letters and
backspace
    if
(!char.IsLetter(e.KeyChar) &&
e.KeyChar != (char)Keys.Back)
    {
        e.Handled = true;
    }
}

private void
PatMNameTb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Allowing only letters and
backspace
    if
(!char.IsLetter(e.KeyChar) &&
e.KeyChar != (char)Keys.Back)
    {
        e.Handled = true;
    }
}

private void
PatLNameTb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Allowing only letters and
backspace
    if
(!char.IsLetter(e.KeyChar) &&
e.KeyChar != (char)Keys.Back)
    {
        e.Handled = true;
    }
}

private void
PatConNumTb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Allowing only digits and
backspace
    if (!char.IsDigit(e.KeyChar) &&
e.KeyChar != (char)Keys.Back)
    {
        e.Handled = true;
    }
}
```

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```

        // Limiting to 11 digits
        if (PatConNumTb.Text.Length
    >= 11 && e.KeyChar != (char)Keys.Back)
    {
        e.Handled = true;
    }

    private void
PatAddresTb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Allowing letters, digits,
and basic symbols, including space and
backspace
    if
(!char.IsLetterOrDigit(e.KeyChar) &&
!char.IsWhiteSpace(e.KeyChar) &&
e.KeyChar != (char)Keys.Back)
    {
        e.Handled = true;
    }

    private void
PatAgeTb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Allowing only digits and
backspace
    if (!char.IsDigit(e.KeyChar)
&& e.KeyChar != (char)Keys.Back)
    {
        e.Handled = true;
    }

    private void
PatDOBDate_KeyDown(object sender,
KeyEventArgs e)
{
    // Disabling manual entry
for the Date of Birth control
    e.Handled = true;
}

    private void
GenCb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Disabling manual entry
for the ComboBox
    e.Handled = true;
}

```

```

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Data.SqlClient;
using System.Drawing;
using System.Globalization;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Web.Routing;
using System.Windows.Forms;
using System.Windows.Input;

namespace Patient_Management_System
{
    public partial class Vital_Signs : Form
    {
        public Vital_Signs()
        {
            InitializeComponent();
            DisplayVital();
            GetPatId();
            searchTB.TextChanged +=
searchTB_TextChanged;
        }

        SqlConnection Con = new
SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDb
Filename="C:\Users\Angela
Ogares\OneDrive\Pictures\Documents\DBH
ealthCenter.mdf";Integrated
Security=True;Connect Timeout=30");
        private void DisplayVital()
        {
            Con.Open();
            string Query = "SELECT " +
"tblVital.VitalId, " +
"PatientTbl.PatId, PatientTbl.Fname AS
PFName, PatientTbl.Mname AS PMName,
PatientTbl.Lname AS
PLName, PatientTbl.ConN AS
ConN, PatientTbl.Age AS Age, " +
"tblVital.wAllergies, tblVital.weight,
tblVital.height, tblVital.BloodP, tblVit
al.BodyT, tblVital.RecordDate " +
"FROM
tblVital " +

```

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```

PatientTbl ON tblVital.PatId =
PatientTbl.PatId " ;

        SqlDataAdapter sda = new
SqlDataAdapter(Query, Con);
        SqlCommandBuilder builder
= new SqlCommandBuilder(sda);
        vitalDataTable = new
DataTable(); // Clear the previous
data
        sda.Fill(vitalDataTable);
        VitalSignsDgv.DataSource =
vitalDataTable;
        Con.Close();
    }

    private DataTable
GetDataFromDatabase()
{
    DataTable dataTable = new
DataTable();

    try
    {
        Con.Open();
        string query = "SELECT
* FROM tblVital";
        SqlDataAdapter adapter
= new SqlDataAdapter(query, Con);

        adapter.Fill(dataTable);
    }
    catch (Exception ex)
    {

        MessageBox.Show(ex.Message);
    }
    finally
    {
        Con.Close();
    }

    return dataTable;
}

private void Clear()
{
    PatIdCb.SelectedIndex = 0;
    PatAllergiesTb.Text = "";
    PatWeightTb.Text = "";
    PatHeightTB.Text = "";
    PatBloodPTb.Text = "";
    PatBodyTTb.Text = "";
    key = 0;
}

```

```

        }

        private void GetPatName()
{
    if (PatIdCb != null &&
PatIdCb.SelectedValue != null)
    {
        Con.Open();
        string Query = "Select
* From PatientTbl Where PatId=" +
PatIdCb.SelectedValue.ToString() + "";
        SqlCommand cmd = new
SqlCommand(Query, Con);
        DataTable dt = new
DataTable();
        SqlDataAdapter sda =
new SqlDataAdapter(cmd);
        sda.Fill(dt);

        if (dt.Rows.Count > 0)
        {
            foreach (DataRow
dr in dt.Rows)
            {

                PatFNameTB.Text =
dr["Fname"].ToString();
                PatMNameTb.Text =
dr["Mname"].ToString();
                PatLNameTb.Text =
dr["Lname"].ToString();
                PatConNumTb.Text =
dr["ConN"].ToString();
                PatAgeTb.Text
= dr["Age"].ToString();
            }
            Con.Close();
        }
    }
}

private void GetPatId()
{
    Con.Open();
    SqlCommand cmd = new
SqlCommand("Select PatId From
PatientTbl", Con);
    SqlDataReader rdr;
    rdr = cmd.ExecuteReader();
    DataTable dt = new
DataTable();

```

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```
        dt.Columns.Add("PatId",
typeof(int));
        dt.Load(rdr);
        PatIdCb.ValueMember =
"PatId";
        PatIdCb.DataSource = dt;
        Con.Close();
    }

    private void
Vital_Signs_Load(object sender,
EventArgs e)
{
}

int key = 0;
private void
VitalSignsDgv_CellContentClick(object
sender, DataGridViewCellEventArgs e)
{
    if (e.RowIndex >= 0 &&
e.RowIndex < VitalSignsDgv.Rows.Count)
    {
        if
(VitalSignsDgv.Columns.Count >= 12)
        {

PatIdCb.SelectedValue =
GetCellValue(e.RowIndex, 1);
        PatFNameTB.Text =
GetCellValue(e.RowIndex, 2);
        PatMNameTb.Text =
GetCellValue(e.RowIndex, 3);
        PatLNameTb.Text =
GetCellValue(e.RowIndex, 4);
        PatConNumTb.Text =
GetCellValue(e.RowIndex, 5);
        PatAgeTb.Text =
GetCellValue(e.RowIndex, 6);

PatAllergiesTb.Text =
GetCellValue(e.RowIndex, 7);
        PatWeightTb.Text =
GetCellValue(e.RowIndex, 8);
        PatHeightTB.Text =
GetCellValue(e.RowIndex, 9);
        PatBloodPTb.Text =
GetCellValue(e.RowIndex, 10);
        PatBodyTTb.Text =
GetCellValue(e.RowIndex, 11);

        if
(PatFNameTB.Text == "")
```

```
            key = 0;
        }
        else
        {
            key =
Convert.ToInt32(GetCellValue(e.RowIndex,
0));
        }
    }
}

private string
GetCellValue(int rowIndex, int
columnIndex)
{
    if (columnIndex <
VitalSignsDgv.Columns.Count)
    {
        return
VitalSignsDgv.Rows[rowIndex].Cells[col
umnIndex].Value?.ToString() ?? "";
    }
    return "";
}

private void
SaveBtn_Click(object sender, EventArgs
e)
{
    // Trigger validation for
    // all child controls
    if
(ValidateChildren(ValidationConstraint
s.Enabled))
    {
        // Validation passed,
        // proceed with saving

        if (PatAllergiesTb.Text
== "" || PatWeightTb.Text == "" ||
PatHeightTB.Text == "" ||
PatBloodPTb.Text == ""))
        {

MessageBox.Show("Missing
Information");
        }
        else
        {
            try
            {
                Con.Open();
```

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```

        // Insert the
new record if no duplicate is found
        SqlCommand cmd
= new SqlCommand("Insert Into tblVital
(PatId,wAllergies,weight,height,BloodP
,BodyT,RecordDate)values(@PI,@AL,@W,@H
,@BP,@BT,getdate())", Con);

cmd.Parameters.AddWithValue("@PI",
PatIdCb.SelectedValue.ToString());

cmd.Parameters.AddWithValue("@AL",
PatAllergiesTb.Text);

cmd.Parameters.AddWithValue("@W",
PatWeightTb.Text);

cmd.Parameters.AddWithValue("@H",
PatHeightTB.Text);

cmd.Parameters.AddWithValue("@BP",
PatBloodPTb.Text);

cmd.Parameters.AddWithValue("@BT",
PatBodyTTb.Text);

cmd.ExecuteNonQuery();

MessageBox.Show("Vital Signs
Successfully Added");
        Con.Close();
        DisplayVital();
        Clear();
    }
    catch (Exception
Ex)
{
    MessageBox.Show(Ex.Message);
}
}

private void
PatIdCb_SelectionChangeCommitted(object
sender, EventArgs e)
{
    GetPatName();
}

private void
DeleteBtn_Click(object sender,
EventArgs e)
{
    if (key == 0)
    {
        MessageBox.Show("Select
Vital Signs");
    }
    else
    {
        try
        {
            Con.Open();
            SqlCommand cmd =
new SqlCommand("Delete From tblVital
Where VitalId=@VKey", Con);

cmd.Parameters.AddWithValue("@VKey",
key);
            cmd.ExecuteNonQuery();

MessageBox.Show("Vital Signs
Successfully Deleted");
            Con.Close();
            DisplayVital();
            Clear();
        }
        catch (Exception Ex)
        {
            MessageBox.Show(Ex.Message);
        }
    }
}

private void
EditBtn_Click(object sender, EventArgs
e)
{
    if ( PatAllergiesTb.Text ==
"" || PatWeightTb.Text == "" ||
PatHeightTB.Text == "" || 
PatBloodPTb.Text == "" ||
PatBodyTTb.Text == "" )
    {

MessageBox.Show("Missing
Information");
    }
    else
    {
        try
        {
            Con.Open();

```

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```

        SqlCommand cmd                                // If the search term
= new SqlCommand("Update tblVital Set           is empty or null, show all records
wAllergies=@AL, weight=@W, height=@H, Blo   DisplayVital();
odP=@BP, BodyT=@BT WHERE
VitalId=@VKey", Con);
        cmd.Parameters.AddWithValue("@AL",
PatAllergiesTb.Text);
        cmd.Parameters.AddWithValue("@W",
PatWeightTb.Text);
        cmd.Parameters.AddWithValue("@H",
PatHeightTB.Text);
        cmd.Parameters.AddWithValue("@BP",
PatBloodPTb.Text);
        cmd.Parameters.AddWithValue("@BT",
PatBodyTTb.Text);
        cmd.Parameters.AddWithValue("@VKey",
key);
        cmd.ExecuteNonQuery();

        MessageBox.Show("Vital Signs
Successfully Updated");
        DisplayVital();
        Con.Close();
        Clear();
    }
    catch (Exception Ex)
    {
        MessageBox.Show(Ex.Message);
    }
}

private DataTable
vitalDataTable = new DataTable();

private void
searchTB_TextChanged(object sender,
EventArgs e)
{
    string searchTerm =
searchTB.Text.Trim().ToLower();

    if
(string.IsNullOrEmpty(searchTerm))
{
    SqlCommand cmd                                // If the search term
= new SqlCommand("Update tblVital Set           is empty or null, show all records
wAllergies=@AL, weight=@W, height=@H, Blo   DisplayVital();
odP=@BP, BodyT=@BT WHERE
VitalId=@VKey", Con);
        cmd.Parameters.AddWithValue("@AL",
PatAllergiesTb.Text);
        cmd.Parameters.AddWithValue("@W",
PatWeightTb.Text);
        cmd.Parameters.AddWithValue("@H",
PatHeightTB.Text);
        cmd.Parameters.AddWithValue("@BP",
PatBloodPTb.Text);
        cmd.Parameters.AddWithValue("@BT",
PatBodyTTb.Text);
        cmd.Parameters.AddWithValue("@VKey",
key);
        cmd.ExecuteNonQuery();

        MessageBox.Show("Vital Signs
Successfully Updated");
        DisplayVital();
        Con.Close();
        Clear();
    }
    catch (Exception Ex)
    {
        MessageBox.Show(Ex.Message);
    }
}

private void
TreatmentBtn_Click(object sender,
EventArgs e)
{
    // Filter the
    // DataGridView based on the search term
    DataView dv = new
DataView(vitalDataTable);

    // Use a filter string
    // to match any of the columns
    string filter =
$"CONVERT(VitalId, 'System.String') LIKE '%{searchTerm}%' OR " +
$"CONVERT(PatId, 'System.String') LIKE '%{searchTerm}%' OR " +
$"PFName LIKE '{searchTerm}%' OR " +
$"PMName LIKE '{searchTerm}%' OR " +
$"PLName LIKE '{searchTerm}%' OR " +
$"wAllergies LIKE '{searchTerm}%' OR
" +
$"weight LIKE '{searchTerm}%' OR " +
$"height LIKE '{searchTerm}%' OR " +
$"BloodP LIKE '{searchTerm}%' OR " +
$"BodyT
LIKE '{searchTerm}%' OR " +
$"CONVERT(RecordDate, 'System.String') LIKE '{searchTerm}%'";

    dv.RowFilter = filter;

    // Update the
    // DataGridView with the filtered data
    VitalSignsDgv.DataSource =
dv.ToTable();
}

private void
TreatmentBtn_Click(object sender,
EventArgs e)
{
}

```

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```

Treatment Treat = new
Treatment();
Treat.Show();
this.Hide();
}

private void
PrescriptionBtn_Click(object sender,
EventArgs e)
{
    Prescription Presc = new
Prescription();
Presc.Show();
this.Hide();
}

private void
button7_Click(object sender, EventArgs
e)
{
    Login log = new Login();
log.Show();
this.Hide();
}

private void
cancelPicB_Click_1(object sender,
EventArgs e)
{
    Application.Exit();
}

private void
PatientBtn_Click_1(object sender,
EventArgs e)
{
    Patient Pat = new Patient();
Pat.Show();
this.Hide();
}

private void
VitalBtn_Click_1(object sender,
EventArgs e)
{
    Vital_Signs log = new
Vital_Signs();
log.Show();
this.Hide();
}

private void
DoctorBtn_Click_1(object sender,
EventArgs e)
{
}

```

```

Doctor Doc = new Doctor();
Doc.Show();
this.Hide();
}

private void
TreatmentBtn_Click_1(object sender,
EventArgs e)
{
    Treatment Treat = new
Treatment();
Treat.Show();
this.Hide();
}

private void
DashboardBtn_Click(object sender,
EventArgs e)
{
    Dashboard log = new
Dashboard();
log.Show();
this.Hide();
}

private void
cancelPicB_Click_2(object sender,
EventArgs e)
{
    Application.Exit();
}

private void
button7_Click_1(object sender,
EventArgs e)
{
    Login log = new Login();
log.Show();
this.Hide();
}

private void
PatIdCb_Validating(object sender,
CancelEventArgs e)
{
    // Validate the PatIdCb
(ComboBox)
if (PatIdCb.SelectedIndex == -1)
{
    errorProvider1.SetError(PatIdCb,
"Please select a patient.");
e.Cancel = true;
}

```

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```
        else
    }

errorProvider1.SetError(PatIdCb,
null);
}

private void
PatFNameTB_Validating(object sender,
CancelEventArgs e)
{
    // Validate the PatFNameTB
    if
(string.IsNullOrEmpty(PatFNameTB.
Text))
{
    errorProvider1.SetError(PatFNameTB,
"Please enter the first name.");
    e.Cancel = true;
}
else
{
    errorProvider1.SetError(PatFNameTB,
null);
}
}

private void
PatMNameTb_Validating(object sender,
CancelEventArgs e)
{
    // Validate the PatMNameTb
    if
(string.IsNullOrEmpty(PatMNameTb.
Text))
{
    errorProvider1.SetError(PatMNameTb,
"Please enter the Middle Name.");
    e.Cancel = true;
}
else
{
    errorProvider1.SetError(PatMNameTb,
null);
}
}
```

```
private void
PatLNameTb_Validating(object sender,
CancelEventArgs e)
{
    // Validate the PatLNameTb
    if
(string.IsNullOrEmpty(PatLNameTb.
Text))
{
    errorProvider1.SetError(PatLNameTb,
"Please enter the Last Name.");
    e.Cancel = true;
}
else
{
    errorProvider1.SetError(PatLNameTb,
null);
}

private void
PatConNumTb_Validating(object sender,
CancelEventArgs e)
{
    // Validation logic for
    contact number
    if
(string.IsNullOrEmpty(PatConNumTb.Text
.Trim())))
{
    errorProvider1.SetError(PatConNumTb,
>Contact Number is required.);
    e.Cancel = true;
}
else
{
    errorProvider1.SetError(PatConNumTb,
"");
}

private void
PatAgeTb_Validating(object sender,
CancelEventArgs e)
{
    // Validation logic for
    age
    if
(string.IsNullOrEmpty(PatAgeTb.Text.Tr
im())))

```

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```

{
    errorProvider1.SetError(PatAgeTb, "Age
is required.");
        e.Cancel = true;
    }
    else
    {
        errorProvider1.SetError(PatAgeTb, "");
    }

    private void
PatAllergiesTb_Validating(object
sender, CancelEventArgs e)
{
    // Validation logic for
age
    if
(string.IsNullOrEmpty(PatAllergiesTb.T
ext.Trim()))
    {
        e.Cancel = true;

    errorProvider1.SetError(PatAllergiesTb
, "Allergie is required.");

    PatAllergiesTb.Focus();
}
    else
    {
        e.Cancel = false;
}

errorProvider1.SetError(PatAllergiesTb
, "");
}

private void
PatWeightTb_Validating(object sender,
CancelEventArgs e)
{
    // Validate the
PatWeightTb (TextBox)
    if
(string.IsNullOrEmpty(PatWeightTb
.Text))
    {

    errorProvider1.SetError(PatWeightTb,
"Please enter weight information.");
        e.Cancel = true;
}
    else
}
{
    errorProvider1.SetError(PatWeightTb,
null);
}
}

private void
PatHeightTB_Validating(object sender,
CancelEventArgs e)
{
    // Validate the
PatHeightTB (TextBox)
    if
(string.IsNullOrWhiteSpace(PatHeightTB
.Text))
    {

errorProvider1.SetError(PatHeightTB,
"Please enter height information.");
        e.Cancel = true;
}
    else
{
    errorProvider1.SetError(PatHeightTB,
null);
}
}

private void
PatBloodPTb_Validating(object sender,
CancelEventArgs e)
{
    // Validate the
PatBloodPTb (TextBox)
    if
(string.IsNullOrWhiteSpace(PatBloodPTb
.Text))
    {

errorProvider1.SetError(PatBloodPTb,
"Please enter blood pressure
information.");
        e.Cancel = true;
}
    else
{
    errorProvider1.SetError(PatBloodPTb,
null);
}
}
}

```

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```

private void
PatBodyTTb_Validating(object sender,
CancelEventArgs e)
{
    // Validate the PatBodyTTb
(TextBox)
    if
(string.IsNullOrEmpty(PatBodyTTb.
Text))
    {

errorProvider1.SetError(PatBodyTTb,
"Please enter body temperature
information.");
        e.Cancel = true;
    }
    else
    {

errorProvider1.SetError(PatBodyTTb,
null);
    }

    private void
PatIdCb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Restrict input to
numeric characters only
    if
(!char.IsControl(e.KeyChar) &&
!char.IsDigit(e.KeyChar))
    {
        e.Handled = true;
    }
}

    private void
PatFNameTB_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Restrict input to
letters and whitespace only
    if
(!char.IsControl(e.KeyChar) &&
!char.IsLetter(e.KeyChar) &&
!char.IsWhiteSpace(e.KeyChar))
    {
        e.Handled = true;
    }
}

    private void
PatMNameTb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Restrict input to
letters and whitespace only
    if
(!char.IsControl(e.KeyChar) &&
!char.IsLetter(e.KeyChar) &&
!char.IsWhiteSpace(e.KeyChar))
    {
        e.Handled = true;
    }
}

    private void
PatLNameTb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Restrict input to
letters and whitespace only
    if
(!char.IsControl(e.KeyChar) &&
!char.IsLetter(e.KeyChar) &&
!char.IsWhiteSpace(e.KeyChar))
    {
        e.Handled = true;
    }
}

    private void
PatConNumTb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Allowing only digits
and backspace
    if
(!char.IsDigit(e.KeyChar) && e.KeyChar
!= (char)Keys.Back)
    {
        e.Handled = true;
    }

    // Limiting to 11 digits
    if
(PatConNumTb.Text.Length >= 11 &&
e.KeyChar != (char)Keys.Back)
    {
        e.Handled = true;
    }
}

    private void
PatAgeTb_KeyPress(object sender,
KeyPressEventArgs e)

```

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```
{ // Restrict input to numeric characters only
    if (!char.IsControl(e.KeyChar) && !char.IsDigit(e.KeyChar))
    {
        e.Handled = true;
    }
}

private void PatAllergiesTb_KeyPress(object sender, KeyPressEventArgs e)
{
    // Restrict input to letters and whitespace only
    if (!char.IsControl(e.KeyChar) && !char.IsLetter(e.KeyChar) && !char.IsWhiteSpace(e.KeyChar))
    {
        e.Handled = true;
    }
}

private void PatWeightTb_KeyPress(object sender, KeyPressEventArgs e)
{
    // Restrict input to numeric characters and a single decimal point
    if (!char.IsControl(e.KeyChar) && !char.IsLetterOrDigit(e.KeyChar) && e.KeyChar != '.')
    {
        e.Handled = true;
    }

    // Allow only one decimal point
    if (e.KeyChar == '.' && (sender as TextBox).Text.Contains("."))

    {
        e.Handled = true;
    }
}

private void PatHeightTB_KeyPress(object sender, KeyPressEventArgs e)
{
    // Restrict input to numeric characters and a single decimal point
    if (!char.IsControl(e.KeyChar) && !char.IsDigit(e.KeyChar) && e.KeyChar != '.')
    {
        e.Handled = true;
    }

    // Allow only one decimal point
    if (e.KeyChar == '.' && (sender as TextBox).Text.Contains("."))

    {
        e.Handled = true;
    }
}

private void PatBloodPTb_KeyPress(object sender, KeyPressEventArgs e)
{
    if (!char.IsControl(e.KeyChar) && !char.IsDigit(e.KeyChar) && e.KeyChar != '/' && e.KeyChar != '?')
    {
        e.Handled = true;
    }
}

private void PatBodyTTb_KeyPress(object sender, KeyPressEventArgs e)
{
    // Restrict input to numeric characters and a single decimal point
    if (!char.IsControl(e.KeyChar) && !char.IsDigit(e.KeyChar) && e.KeyChar != '.')
    {
        e.Handled = true;
    }

    // Allow only one decimal point
    if (e.KeyChar == '.' && (sender as TextBox).Text.Contains("."))

    {
        e.Handled = true;
    }
}
```

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```

        e.Handled = true;
    }
}

using System;
using System.Collections;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Data.SqlClient;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Web.Routing;
using System.Windows.Forms;
using System.Windows.Input;

namespace Patient_Management_System
{
    public partial class Doctor : Form
    {
        public Doctor()
        {
            InitializeComponent();
            DisplayDoc();
            searchTB.TextChanged += searchTB_TextChanged;
            searchTB.TextChanged += searchTB_TextChanged;
        }

        SqlConnection Con = new
SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDb
Filename="C:\Users\Angela
Ogares\OneDrive\Pictures\Documents\DBH
ealthCenter.mdf";Integrated
Security=True;Connect Timeout=30");
        private void DisplayDoc()
        {
            Con.Open();
            string Query = "Select *
From DocTbl";
            SqlDataAdapter sda = new
SqlDataAdapter(Query, Con);
            SqlCommandBuilder builder
= new SqlCommandBuilder(sda);
            var ds = new DataSet();
            sda.Fill(ds);
            DoctorDGV.DataSource =
ds.Tables[0];
            Con.Close();
        }
    }
}

doctorDataTable =
GetDataFromDatabase(); // Implement
this method to fetch data

// Bind the DataTable to
the DataGridView
DoctorDGV.DataSource =
doctorDataTable;
}

private DataTable
GetDataFromDatabase()
{
    DataTable dataTable = new
DataTable();

try
{
    Con.Open();
    string query = "SELECT
* FROM DocTbl";
    SqlDataAdapter adapter
= new SqlDataAdapter(query, Con);

adapter.Fill(dataTable);
}
catch (Exception ex)
{
    MessageBox.Show(ex.Message);
}
finally
{
    Con.Close();
}

return dataTable;
}

private void Clear()
{
    DocFNameTb.Text = "";
    DocMNameTb.Text = "";
    DocLNameTb.Text = "";
    DocConNum.Text = "";
    DocGenCb.SelectedIndex =
0;
    DocAddresTb.Text = "";
    DocSpeciaTb.Text = "";
    key = 0;
}

```

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```

private void
Doctor_Load(object sender, EventArgs
e)
{
    // Load data into
DataGridView
    DisplayDoc();

    // Subscribe to the
TextChanged event of the TextBox
    searchTB.TextChanged +=
searchTB_TextChanged;
}

int key = 0;
private void
DoctorDGV_CellContentClick(object
sender, DataGridViewCellEventArgs e)
{
    if (e.RowIndex >= 0 &&
e.RowIndex < DoctorDGV.Rows.Count)
    {
        if
(DoctorDGV.Columns.Count >= 9)
        {
            DocFNameTb.Text =
DoctorDGV.Rows[e.RowIndex].Cells[1].Va
lue.ToString();
            DocMNameTb.Text =
DoctorDGV.Rows[e.RowIndex].Cells[2].Va
lue.ToString();
            DocLNameTb.Text =
DoctorDGV.Rows[e.RowIndex].Cells[3].Va
lue.ToString();
            DocConNum.Text =
DoctorDGV.Rows[e.RowIndex].Cells[4].Va
lue.ToString();
            if
(DoctorDGV.Columns.Count > 5)
            {
                string
dobString =
DoctorDGV.Rows[e.RowIndex].Cells[5].Va
lue?.ToString();
                if
(DateTime.TryParse(dobString, out
DateTime dob))
                {
                    DocDOBDate.Value = dob;
                }
            }
        }
    }
}
DocGenCb.SelectedItem =

```

```

DoctorDGV.Rows[e.RowIndex].Cells[6].Va
lue.ToString();
    DocAddresTb.Text =
DoctorDGV.Rows[e.RowIndex].Cells[7].Va
lue.ToString();
    DocSpeciaTb.Text =
DoctorDGV.Rows[e.RowIndex].Cells[8].Va
lue.ToString();

if (DocFNameTb.Text
== "")
{
    key = 0;
}
else
{
    key =
Convert.ToInt32(DoctorDGV.Rows[e.RowIndex].Cells[0].Value.ToString());
}
}

private void
SaveBtn_Click_2(object sender,
EventArgs e)
{
    // Trigger validation for
child controls
    if
(ValidateChildren(ValidationConstraints.Enabled))
    {
        // Validation
successful, proceed with the save
logic
        if (DocFNameTb.Text ==
"" || DocMNameTb.Text == "" ||
DocLNameTb.Text == "" ||
DocConNum.Text == "" ||
DocGenCb.SelectedIndex == -1 ||
DocAddresTb.Text == "" ||
DocSpeciaTb.Text == "")
        {
            MessageBox.Show("Missing
Information");
        }
        else
        {
            try
            {
                Con.Open();

```

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```

        SqlCommand cmd
= new SqlCommand("Insert Into DocTbl
(Fname,Mname,Lname,ConN,Dob,Gender,Address,Specialization)values(@DF,@DM,@DL
,@DC,@DD,@DG,@DA,@DS)", Con);

cmd.Parameters.AddWithValue("@DF",
DocFNameTb.Text);

cmd.Parameters.AddWithValue("@DM",
DocMNameTb.Text);

cmd.Parameters.AddWithValue("@DL",
DocLNameTb.Text);

cmd.Parameters.AddWithValue("@DC",
DocConNum.Text);

cmd.Parameters.AddWithValue("@DD",
DocDOBDate.Value.Date);

cmd.Parameters.AddWithValue("@DG",
DocGenCb.SelectedItem);

cmd.Parameters.AddWithValue("@DA",
DocAddresTb.Text);

cmd.Parameters.AddWithValue("@DS",
DocSpeciaTb.Text);

cmd.ExecuteNonQuery();

MessageBox.Show("Doctor Successfully
Added");

        Con.Close();
DisplayDoc();
Clear();
    }
    catch (Exception
Ex)
{
    MessageBox.Show(Ex.Message);
}
else
{
    // Validation failed,
show a message or handle it
accordingly

MessageBox.Show("Please fill in all
required fields.");
}
    }

private void
DeleteBtn_Click_2(object sender,
EventArgs e)
{
    if (key == 0)
    {
        MessageBox.Show("Select Doctor");
    }
    else
    {
        try
        {
            Con.Open();
            SqlCommand cmd =
new SqlCommand("Delete From DocTbl
Where DocId=@DKey", Con);

cmd.Parameters.AddWithValue("@DKey",
key);

cmd.ExecuteNonQuery();

MessageBox.Show("Doctor Successfully
Deleted");

        Con.Close();
        DisplayDoc();
        Clear();
    }
    catch (Exception Ex)
    {
        MessageBox.Show(Ex.Message);
    }
}

private void
UpdateBtn_Click_2(object sender,
EventArgs e)
{
    if (DocFNameTb.Text == ""
|| DocMNameTb.Text == "" ||
DocLNameTb.Text == "" ||
DocConNum.Text == "" ||
DocGenCb.SelectedIndex == -1 ||
DocAddresTb.Text == "" ||
DocSpeciaTb.Text == ""))
{
    MessageBox.Show("Missing
Information");
}
}

```

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```

    }
    else
    {
        try
        {
            Con.Open();
            SqlCommand cmd =
new SqlCommand("Update DocTbl Set
Fname=@DF, Mname=@DM, Lname=@DL, ConN=@DC
,Dob=@DD, Gender=@DG, Address=@DA, Specia
lization=@DS Where DocId=@DKey", Con);

cmd.Parameters.AddWithValue("@DF",
DocFNameTb.Text);

cmd.Parameters.AddWithValue("@DM",
DocMNameTb.Text);

cmd.Parameters.AddWithValue("@DL",
DocLNameTb.Text);

cmd.Parameters.AddWithValue("@DC",
DocConNum.Text);

cmd.Parameters.AddWithValue("@DD",
DocDOBDate.Value.Date);

cmd.Parameters.AddWithValue("@DG",
DocGenCb.SelectedItem);

cmd.Parameters.AddWithValue("@DA",
DocAddresTb.Text);

cmd.Parameters.AddWithValue("@DS",
DocSpeciaTb.Text);

cmd.Parameters.AddWithValue("@DKey",
key);

cmd.ExecuteNonQuery();

MessageBox.Show("Doctor Successfully
Added");
            Con.Close();
            DisplayDoc();
            Clear();
        }
        catch (Exception Ex)
        {

MessageBox.Show(Ex.Message);
        }
    }
}

```

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```

private void
Searchbtn_Click(object sender,
EventArgs e)
{
    string searchTerm =
searchTB.Text;

    // Perform the search
    SearchDoctor(searchTerm);
}

private void
SearchDoctor(string searchTerm)
{
    // Assuming you have a
    // DataGridView named 'DoctorDGV'
    if (DoctorDGV.Rows.Count >
0)
    {
        foreach
(DataGridViewRow row in
DoctorDGV.Rows)
        {
            // Check if any
            // cell's value contains the search term
            if
(row.Cells.Cast<DataGridViewCell>()
.Any(cell =>
cell.Value != null &&
cell.Value.ToString().ToLower().Contai
ns(searchTerm.ToLower())))
            {
                // If found,
                // populate the data into the textboxes
                // for editing
                key =
Convert.ToInt32(row.Cells["DocId"].Val
ue); // Assuming your DataGridView has
// a column named "DocId"

                DocFNameTb.Text =
row.Cells["Fname"].Value?.ToString();

                DocMNameTb.Text =
row.Cells["Mname"].Value?.ToString();

                DocLNameTb.Text =
row.Cells["Lname"].Value?.ToString();
                DocConNum.Text
= row.Cells["ConN"].Value?.ToString();

                // Convert
                // "Dob" string to DateTime
                DocDOBDate.Value =

```

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```

DateTime.Parse(row.Cells["Dob"].Value?
.ToString());

DocGenCb.SelectedItem =
row.Cells["Gender"].Value?.ToString();

DocAddresTb.Text =
row.Cells["Address"].Value?.ToString();
;

DocSpeciaTb.Text =
row.Cells["Specialization"].Value?.ToString();

                                // Show a
message or perform any other action
indicating the doctor is found

MessageBox.Show("Doctor Found");

                                // Exit the
loop since we found a match
                    return;
                }
            }

                                // If no match is
found, show a message or perform any
other action

MessageBox.Show("Doctor Not Found");
}
else
{
    // Handle the case
when there are no rows in the
DataGridView
    MessageBox.Show("No
Data in DataGridView");
}

private DataTable
doctorDataTable = new DataTable();

private void
searchTB_TextChanged(object sender,
EventArgs e)
{
    string searchTerm =
searchTB.Text.Trim().ToLower();

    if
(string.IsNullOrEmpty(searchTerm))

```

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```

        {
            // If the search term
is empty or null, show all records
            DisplayDoc();
        }
        else
        {
            // Filter the
DataGridView based on the search term
            DataView dv = new
DataView(doctorDataTable); // Assuming
doctorDataTable is the DataTable you
bound to the DataGridView

            // Use a filter string
to match any of the columns
            string filter =
$"CONVERT(DocId, 'System.String') LIKE
'%{searchTerm}%' OR Fname LIKE
'%{searchTerm}%' OR Mname LIKE
'%{searchTerm}%' OR Lname LIKE
'%{searchTerm}%' OR ConN LIKE
'%{searchTerm}%' OR CONVERT(Dob,
'System.String') LIKE '{searchTerm}%' OR
Gender LIKE '{searchTerm}%' OR
Address LIKE '{searchTerm}%' OR
Specialization LIKE '{searchTerm}%'";
            dv.RowFilter = filter;

            // Update the
DataGridView with the filtered data
            DoctorDGV.DataSource =
dv.ToTable();
        }
    }

    private void
PatientBtn_Click_1(object sender,
EventArgs e)
{
    Patient Pat = new
Patient();
    Pat.Show();
    this.Hide();
}

    private void
VitalBtn_Click_1(object sender,
EventArgs e)
{
    Vital_Signs log = new
Vital_Signs();
    log.Show();
}
```

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```
        this.Hide();
    }

    private void
DoctorBtn_Click_1(object sender,
EventArgs e)
{
    Doctor Doc = new Doctor();
    Doc.Show();
    this.Hide();
}

    private void
TreatmentBtn_Click_1(object sender,
EventArgs e)
{
    Treatment Treat = new
Treatment();
    Treat.Show();
    this.Hide();
}

    private void
PrescriptionBtn_Click_1(object sender,
EventArgs e)
{
    Prescription Presc = new
Prescription();
    Presc.Show();
    this.Hide();
}

    private void
Inventorybtn_Click(object sender,
EventArgs e)
{
    Inventory Invert = new
Inventory();
    Invert.Show();
    this.Hide();
}

    private void
button7_Click_1(object sender,
EventArgs e)
{
    Application.Exit();
}

    private void
DashboardBtn_Click(object sender,
EventArgs e)
{
    Dashboard log = new
Dashboard();
```

```
        log.Show();
        this.Hide();
    }

    private void
DocFNameTb_Validating(object sender,
CancelEventArgs e)
{
    if
(string.IsNullOrEmpty(DocFNameTb.Text.
Trim()))
    {

errorProvider1.SetError(DocFNameTb,
"First Name is required.");
e.Cancel = true;
}
else
{

errorProvider1.SetError(DocFNameTb,
"");
    }
}

    private void
DocMNameTb_Validating(object sender,
CancelEventArgs e)
{
    // Validation logic for
middle name
    if
(string.IsNullOrEmpty(DocMNameTb.Text.
Trim()))
    {

errorProvider1.SetError(DocMNameTb,
"Middle Name is required.");
e.Cancel = true;
}
else
{

errorProvider1.SetError(DocMNameTb,
"");
    }
}

    private void
DocLNameTb_Validating(object sender,
CancelEventArgs e)
{
    // Validation logic for
last name
```

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```
if
(string.IsNullOrEmpty(DocLNameTb.Text.
Trim()))
{
    errorProvider1.SetError(DocLNameTb,
"Last Name is required.");
    e.Cancel = true;
}
else
{
    errorProvider1.SetError(DocLNameTb,
(""));
}
}

private void
DocConNum_Validating(object sender,
CancelEventArgs e)
{
    // Validation logic for
contact number
    if
(string.IsNullOrEmpty(DocConNum.Text.T
rim()))
    {
        errorProvider1.SetError(DocConNum,
>Contact Number is required.");
        e.Cancel = true;
    }
    else
    {
        errorProvider1.SetError(DocConNum,
(""));
    }
}

private void
DocDOBDate_Validating(object sender,
CancelEventArgs e)
{
    // Validation logic for
date of birth
    if (DocDOBDate.Value >=
DateTime.Today)
    {

        errorProvider1.SetError(DocDOBDate,
"Invalid Date of Birth.");
        e.Cancel = true;
    }
    else
    {
}

    {
        errorProvider1.SetError(DocDOBDate,
"");
    }
}

private void
DocGenCb_Validating(object sender,
CancelEventArgs e)
{
    // Validation logic for
gender ComboBox
    if (DocGenCb.SelectedIndex
== -1)
    {
        e.Cancel = true;
        errorProvider1.SetError(DocGenCb,
"Please select a gender.");
        DocGenCb.Focus();
    }
    else
    {
        e.Cancel = false;
        errorProvider1.SetError(DocGenCb, "");
    }
}

private void
DocAddresTb_Validating(object sender,
CancelEventArgs e)
{
    // Validation logic for
address
    if
(string.IsNullOrEmpty(DocAddresTb.Text
.Trim()))
    {
        errorProvider1.SetError(DocAddresTb,
"Address is required.");
        e.Cancel = true;
    }
    else
    {
        errorProvider1.SetError(DocAddresTb,
(""));
    }
}
```

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```

private void
DocSpeciaTb_Validating(object sender,
CancelEventArgs e)
{
    // Validation logic for
address
    if
(string.IsNullOrEmpty(DocSpeciaTb.Text
.Trim())))
    {

errorProvider1.SetError(DocSpeciaTb,
"Specialization is required.");
    e.Cancel = true;
}
else
{

errorProvider1.SetError(DocSpeciaTb,
"");
}
}

private void
DocFNameTb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Allowing only letters
and backspace
    if
(!char.IsLetter(e.KeyChar) &&
e.KeyChar != (char)Keys.Back)
    {
        e.Handled = true;
}
}

private void
DocMNameTb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Allowing only letters
and backspace
    if
(!char.IsLetter(e.KeyChar) &&
e.KeyChar != (char)Keys.Back)
    {
        e.Handled = true;
}
}

private void
DocLNameTb_KeyPress(object sender,
KeyPressEventArgs e)
{
}

private void
// Allowing only letters
and backspace
if
(!char.IsLetter(e.KeyChar) &&
e.KeyChar != (char)Keys.Back)
{
    e.Handled = true;
}

private void
// Allowing only letters
and backspace
if
(!char.IsLetter(e.KeyChar) && e.KeyChar
!= (char)Keys.Back)
{
    e.Handled = true;
}

private void
// Allowing only digits
and backspace
if
(!char.IsDigit(e.KeyChar) && e.KeyChar
!= (char)Keys.Back)
{
    e.Handled = true;
}

private void
// Limiting to 11 digits
if
(DocConNum.Text.Length
>= 11 && e.KeyChar != (char)Keys.Back)
{
    e.Handled = true;
}

private void
DocDOBDate_KeyPress(object sender,
KeyPressEventArgs e)
{
}

private void
DocDOBDate_KeyDown(object sender,
System.Windows.Forms.KeyEventArgs e)
{
    // Disabling manual entry
for the Date of Birth control
    e.Handled = true;
}

private void
DocGenCb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Disabling manual entry
for the ComboBox
    e.Handled = true;
}

```

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```

private void
DocAddresTb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Allowing letters,
    digits, and basic symbols, including
    space and backspace
    if
    (!char.IsLetterOrDigit(e.KeyChar) &&
    !char.IsWhiteSpace(e.KeyChar) &&
    e.KeyChar != (char)Keys.Back)
    {
        e.Handled = true;
    }
}

private void
DocSpeciaTb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Allowing only letters
    and backspace
    if
    (!char.IsLetter(e.KeyChar) &&
    e.KeyChar != (char)Keys.Back)
    {
        e.Handled = true;
    }
}

using
MigraDoc.DocumentObjectModel.Tables;
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Data.SqlClient;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Web.Routing;
using System.Windows.Forms;
using System.Windows.Input;

namespace Patient_Management_System
{
    public partial class Treatment : Form
    {
        public Treatment()
    }
}

InitializeComponent();
DisplayTreat();
GetPatId();
GetDocId();
searchTB.TextChanged +=
searchTB_TextChanged;
}

SqlConnection Con = new
SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDb
Filename="C:\Users\Angela
Ogares\OneDrive\Pictures\Documents\DBH
ealthCenter.mdf";Integrated
Security=True;Connect Timeout=30");
private void DisplayTreat()
{
    Con.Open();
    string Query = "SELECT " +
"tblTreatment.TreatId, " +
"PatientTbl.PatId, PatientTbl.Fname AS
PFName, PatientTbl.Mname AS PMName,
PatientTbl.Lname AS PLName, " +
"DocTbl.DocId, " +
"DocTbl.Fname AS DFName, DocTbl.Mname
AS DMName, DocTbl.Lname AS DLName,
DocTbl.Specialization AS
Specialization, " +
"tblTreatment.Symptoms,
tblTreatment.SSymptoms,
tblTreatment.MDiagnosis,
tblTreatment.RecordDate " +
"FROM
tblTreatment " +
"INNER JOIN
PatientTbl ON tblTreatment.PatId =
PatientTbl.PatId " +
"INNER JOIN
DocTbl ON tblTreatment.DocId =
DocTbl.DocId";

SqlDataAdapter sda = new
SqlDataAdapter(Query, Con);
SqlCommandBuilder builder
= new SqlCommandBuilder(sda);
treatmentDataTable = new
DataTable(); // Clear the previous
data
sda.Fill(treatmentDataTable);
}

```

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```
TreatmentDGV.DataSource =
treatmentDataTable;
Con.Close();
}

private DataTable
GetDataFromDatabase()
{
    DataTable dataTable = new
DataTable();

    try
    {
        Con.Open();
        string query = "SELECT
* FROM tblTreatment";
        SqlDataAdapter adapter
= new SqlDataAdapter(query, Con);

adapter.Fill(dataTable);
    }
    catch (Exception ex)
    {

MessageBox.Show(ex.Message);
    }
    finally
    {
        Con.Close();
    }

    return dataTable;
}

private void Clear()
{
    PatIdCb.SelectedIndex = 0;
    PatFNameTb.Text = "";
    PatMNameTb.Text = "";
    PatLNameTb.Text = "";
    DocIdCb.SelectedIndex = 0;
    DocFNameTb.Text = "";
    DocMNameTb.Text = "";
    DocLNameTb.Text = "";
    DocSpeciaTb.Text = "";
    WSymptomsTb.Text = "";
    SymptomsSTb.Text = "";
    MedDTb.Text = "";
    key = 0;
}

private void GetPatName()
{
    if (PatIdCb != null &&
PatIdCb.SelectedValue != null)
    {
        Con.Open();
        string Query = "Select
* From PatientTbl Where PatId=" +
PatIdCb.SelectedValue.ToString() + "";
        SqlCommand cmd = new
SqlCommand(Query, Con);
        DataTable dt = new
DataTable();
        SqlDataAdapter sda =
new SqlDataAdapter(cmd);
        sda.Fill(dt);

        if (dt.Rows.Count > 0)
        {
            foreach (DataRow
dr in dt.Rows)
            {

PatFNameTb.Text =
dr["Fname"].ToString();

PatMNameTb.Text =
dr["Mname"].ToString();

PatLNameTb.Text =
dr["Lname"].ToString();
            }
            Con.Close();
        }
    }
}

private void GetDocName()
{
    if (DocIdCb != null &&
DocIdCb.SelectedValue != null)
    {
        Con.Open();
        string Query = "Select
* From DocTbl Where DocId=" +
DocIdCb.SelectedValue.ToString() + "";
        SqlCommand cmd = new
SqlCommand(Query, Con);
        DataTable dt = new
DataTable();
        SqlDataAdapter sda =
new SqlDataAdapter(cmd);
        sda.Fill(dt);

        if (dt.Rows.Count > 0)
        {

```

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```

        foreach (DataRow dr in dt.Rows)
        {
            DocFNameTb.Text =
dr["Fname"].ToString();
            DocMNameTb.Text =
dr["Mname"].ToString();
            DocLNameTb.Text =
dr["Lname"].ToString();
            DocSpeciaTb.Text =
dr["Specialization"].ToString();
        }
        Con.Close();
    }

    private void GetPatId()
    {
        Con.Open();
        SqlCommand cmd = new
SqlCommand("Select PatId From
PatientTbl", Con);
        SqlDataReader rdr;
        rdr = cmd.ExecuteReader();
        DataTable dt = new
DataTable();
        dt.Columns.Add("PatId",
typeof(int));
        dt.Load(rdr);
        PatIdCb.ValueMember =
"PatId";
        PatIdCb.DataSource = dt;
        Con.Close();
    }

    private void GetDocId()
    {
        Con.Open();
        SqlCommand cmd = new
SqlCommand("Select DocId From DocTbl",
Con);
        SqlDataReader rdr;
        rdr = cmd.ExecuteReader();
        DataTable dt = new
DataTable();
        dt.Columns.Add("DocId",
typeof(int));
        dt.Load(rdr);
        DocIdCb.ValueMember =
"DocId";
        foreach (DataRow dr in dt.Rows)
        {
            DocFNameTb.Text =
dr["Fname"].ToString();
            DocMNameTb.Text =
dr["Mname"].ToString();
            DocLNameTb.Text =
dr["Lname"].ToString();
            DocSpeciaTb.Text =
dr["Specialization"].ToString();
        }
        Con.Close();
    }

    private void GetPatName()
    {
        DocIdCb_SelectionChangeCommitted(sender, e)
    }

    private void GetDocName()
    {
        DocIdCb_SelectionChangeCommitted(sender, e)
    }

    private void SaveBtn_Click(object sender, EventArgs e)
    {
        if
(ValidateChildren(ValidationConstraint
s.Enabled))
        {
            // Validation
            successful, proceed with saving
            if (WSymptomsTb.Text == ""
|| SymptomsTb.Text == "" ||

MedDTb.Text == "") {
                MessageBox.Show("Missing
Information");
            }
            else
            {
                try
                {
                    Con.Open();
                    // Insert a new
record with the same TreatId but a new
RecordDate
                    SqlCommand cmd =
new SqlCommand("INSERT INTO
tblTreatment (PatId, DocId, Symptoms,
SSymptoms, MDiagnosis, RecordDate)
VALUES (@PI, @DI, @S, @SS, @MD,
GETDATE())", Con);
                    cmd.Parameters.AddWithValue("@PI",
PatIdCb.SelectedValue.ToString());
                    cmd.ExecuteNonQuery();
                }
                catch (Exception ex)
                {
                    MessageBox.Show(ex.Message);
                }
            }
        }
    }
}

```

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```
cmd.Parameters.AddWithValue("@DI",
DocIdCb.SelectedValue.ToString());

cmd.Parameters.AddWithValue("@S",
WSymptomsTb.Text);

cmd.Parameters.AddWithValue("@SS",
SymptomsSTb.Text);

cmd.Parameters.AddWithValue("@MD",
MedDTb.Text);

cmd.ExecuteNonQuery();

MessageBox.Show("Treatment
Successfully Added");
{
    Con.Close();
    DisplayTreat();
    Clear();
}
catch (Exception
Ex)
{
    MessageBox.Show(Ex.Message);
}
else
{
    // Validation failed,
    do not proceed with saving
}
MessageBox.Show("Validation failed.
Please correct the errors.");
}

private void
UpdateBtn_Click(object sender,
EventArgs e)
{
    if (WSymptomsTb.Text == ""
|| SymptomsSTb.Text == "" ||
MedDTb.Text == "")
{
    MessageBox.Show("Missing
Information");
}
else
{
```

```
try
{
    Con.Open();

    SqlCommand cmd
= new SqlCommand("Update tblTreatment
Set
Symptoms=@S, SSymptoms=@SS, MDiagnosis=@
MD WHERE TreatId=@TKey", Con);

    cmd.Parameters.AddWithValue("@S",
WSymptomsTb.Text);

    cmd.Parameters.AddWithValue("@SS",
SymptomsSTb.Text);

    cmd.Parameters.AddWithValue("@MD",
MedDTb.Text);

    cmd.Parameters.AddWithValue("@TKey",
key);

    cmd.ExecuteNonQuery();

    MessageBox.Show("Treatment
Successfully Updated");
    DisplayTreat();
    Clear();
    Con.Close();
    Clear();
}
catch (Exception Ex)
{
    MessageBox.Show(Ex.Message);
}
}

int key = 0;
private void
TreatmentDGV_CellContentClick(object
sender, DataGridViewCellEventArgs e)
{
    if (e.RowIndex >= 0 &&
e.RowIndex < TreatmentDGV.Rows.Count)
{
    if
(TreatmentDGV.Columns.Count >= 12)
    {
        PatIdCb.SelectedValue =
GetCellValue(e.RowIndex, 1);
```

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```

        PatFNameTb.Text =
GetCellValue(e.RowIndex, 2);
        PatMNameTb.Text =
GetCellValue(e.RowIndex, 3);
        PatLNameTb.Text =
GetCellValue(e.RowIndex, 4);

DocIdCb.SelectedValue =
GetCellValue(e.RowIndex, 5);
        DocFNameTb.Text =
GetCellValue(e.RowIndex, 6);
        DocMNameTb.Text =
GetCellValue(e.RowIndex, 7);
        DocLNameTb.Text =
GetCellValue(e.RowIndex, 8);
        DocSpeciaTb.Text =
GetCellValue(e.RowIndex, 9);
        WSymptomsTb.Text =
GetCellValue(e.RowIndex, 10);
        SymptomsSTb.Text =
GetCellValue(e.RowIndex, 11);
        MedDTb.Text =
GetCellValue(e.RowIndex, 12);

        if (PatFNameTb.Text
== "") {
    {
        key = 0;
    }
    else
    {
        key =
Convert.ToInt32(GetCellValue(e.RowIndex,
x, 0));
    }
}
}

private string GetCellValue(int
rowIndex, int columnIndex)
{
    if (columnIndex <
TreatmentDGV.Columns.Count)
    {
        return
TreatmentDGV.Rows[rowIndex].Cells[colu-
mnIndex].Value?.ToString() ?? "";
    }
    return "";
}

```

```

private void
DeleteBtn_Click(object sender,
EventArgs e)
{
    if (key == 0)
    {
        MessageBox.Show("Select
Treatment");
    }
    else
    {
        try
        {
            Con.Open();
            SqlCommand cmd =
new SqlCommand("Delete From
tblTreatment Where TreatId=@ TKey",
Con);

cmd.Parameters.AddWithValue("@ TKey",
key);

cmd.ExecuteNonQuery();

MessageBox.Show("Treatment
Successfully Deleted");
            Con.Close();
            DisplayTreat();
            Clear();
        }
        catch (Exception Ex)
        {
            MessageBox.Show(Ex.Message);
        }
    }
}

private DataTable treatmentDataTable
= new DataTable();
private void
searchTB_TextChanged(object sender,
EventArgs e)
{
    string searchTerm =
searchTB.Text.Trim().ToLower();

    if
(string.IsNullOrEmpty(searchTerm))
    {
        // If the search term is
empty or null, show all records
        DisplayTreat();
    }
}

```

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```

else
{
    // Filter the DataGridView
    based on the search term
    DataView dv = new
    DataView(treatmentDataTable);

    // Use a filter string to
    match any of the columns
    string filter =
    $"CONVERT(TreatId, 'System.String')
    LIKE '{searchTerm}%' OR " +
    $"CONVERT(PatId, 'System.String') LIKE
    '{searchTerm}%' OR " +
    $"PFName
    LIKE '{searchTerm}%' OR " +
    $"PMName
    LIKE '{searchTerm}%' OR " +
    $"PLName
    LIKE '{searchTerm}%' OR " +
    $"CONVERT(DocId, 'System.String') LIKE
    '{searchTerm}%' OR " +
    $"DFName
    LIKE '{searchTerm}%' OR " +
    $"DMName
    LIKE '{searchTerm}%' OR " +
    $"DLName
    LIKE '{searchTerm}%' OR " +
    $"Specialization LIKE '{searchTerm}%' OR " +
    $"Symptoms
    LIKE '{searchTerm}%' OR " +
    $"SSymptoms
    LIKE '{searchTerm}%' OR " +
    $"MDiagnosis
    LIKE '{searchTerm}%' OR " +
    $"CONVERT(RecordDate, 'System.String')
    LIKE '{searchTerm}%';

    dv.RowFilter = filter;

    // Update the DataGridView
    with the filtered data
    TreatmentDGV.DataSource =
    dv.ToTable();
}

}

```

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```

private void
PatientBtn_Click_1(object sender,
EventArgs e)
{
    Patient Pat = new Patient();
    Pat.Show();
    this.Hide();
}

private void
VitalBtn_Click_1(object sender,
EventArgs e)
{
    Vital_Signs log = new
    Vital_Signs();
    log.Show();
    this.Hide();
}

private void
DoctorBtn_Click_1(object sender,
EventArgs e)
{
    Doctor Doc = new Doctor();
    Doc.Show();
    this.Hide();
}

private void
TreatmentBtn_Click_1(object sender,
EventArgs e)
{
    Treatment Treat = new
    Treatment();
    Treat.Show();
    this.Hide();
}

private void
PrescriptionBtn_Click_1(object sender,
EventArgs e)
{
    Prescription Presc = new
    Prescription();
    Presc.Show();
    this.Hide();
}

private void
Inventorybtn_Click(object sender,
EventArgs e)
{
    Inventory Invert = new
    Inventory();
    Invert.Show();
}

```

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```
this.Hide();
}

private void
button7_Click_1(object sender,
EventArgs e)
{
    Login log = new Login();
    log.Show();
    this.Hide();
}

private void
cancelPicB_Click(object sender,
EventArgs e)
{
    Application.Exit();
}

private void
DashboardBtn_Click_1(object sender,
EventArgs e)
{
    Dashboard log = new
Dashboard();
    log.Show();
    this.Hide();
}

private void
PatIdCb_Validating(object sender,
CancelEventArgs e)
{
    if (PatIdCb.SelectedValue ==
null ||
string.IsNullOrWhiteSpace(PatIdCb.Text))
    {
        errorProvider1.SetError(PatIdCb,
"Please select a valid ID Patient.");
        e.Cancel = true;
    }
    else
    {
        errorProvider1.SetError(PatIdCb,
null);
    }
}

private void
PatFNameTb_Validating(object sender,
CancelEventArgs e)
{
    if
(string.IsNullOrWhiteSpace(PatFNameTb.
Text))
    {
        errorProvider1.SetError(PatFNameTb,
"Please enter patient's first name.");
        e.Cancel = true;
    }
    else
    {
        errorProvider1.SetError(PatFNameTb,
null);
    }
}

private void
PatMNameTb_Validating(object sender,
CancelEventArgs e)
{
    // Validation logic for
middle name
    if
(string.IsNullOrEmpty(PatMNameTb.Text.
Trim()))
    {
        errorProvider1.SetError(PatMNameTb,
"Middle Name is required.");
        e.Cancel = true;
    }
    else
    {
        errorProvider1.SetError(PatMNameTb,
(""));
    }
}

private void
PatLNameTb_Validating(object sender,
CancelEventArgs e)
{
    // Validation logic for last
name
    if
(string.IsNullOrEmpty(PatLNameTb.Text.
Trim()))
    {
        errorProvider1.SetError(PatLNameTb,
"Last Name is required.");
        e.Cancel = true;
    }
}
```

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```
        else
    }

errorProvider1.SetError(PatLNameTb,
"");
}

private void
DocIdCb_Validating(object sender,
CancelEventArgs e)
{
    if (DocIdCb.SelectedValue ==
null ||
string.IsNullOrWhiteSpace(DocIdCb.Text))
{
    errorProvider1.SetError(DocIdCb,
"Please select a valid ID Doctor.");
    e.Cancel = true;
}
else
{

errorProvider1.SetError(DocIdCb,
null);
}

private void
DocFNameTb_Validating(object sender,
CancelEventArgs e)
{
    if
(string.IsNullOrWhiteSpace(DocFNameTb.
Text))
{
    errorProvider1.SetError(DocFNameTb,
"Please enter doctor's first name.");
    e.Cancel = true;
}
else
{

errorProvider1.SetError(DocFNameTb,
null);
}

private void
DocMNameTb_Validating(object sender,
CancelEventArgs e)
{



if
(string.IsNullOrWhiteSpace(DocMNameTb.
Text))
{
    errorProvider1.SetError(DocMNameTb,
"Please enter doctor's middle name.");
    e.Cancel = true;
}
else
{
    errorProvider1.SetError(DocMNameTb,
null);
}

private void
DocLNameTb_Validating(object sender,
CancelEventArgs e)
{
    if
(string.IsNullOrWhiteSpace(DocLNameTb.
Text))
{
    errorProvider1.SetError(DocLNameTb,
"Please enter doctor's last name.");
    e.Cancel = true;
}
else
{
    errorProvider1.SetError(DocLNameTb,
null);
}

private void
DocSpeciaTb_Validating(object sender,
CancelEventArgs e)
{
    if
(string.IsNullOrWhiteSpace(DocSpeciaTb.
Text))
{
    errorProvider1.SetError(DocSpeciaTb,
"Please enter doctor's
specialization.");
    e.Cancel = true;
}
else
{



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```

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```
errorProvider1.SetError(DocSpeciaTb,
null);
}

private void
WSymptomsTb_Validating(object sender,
CancelEventArgs e)
{
    if
(string.IsNullOrEmpty(WSymptomsTb
.Text))
    {

errorProvider1.SetError(WSymptomsTb,
"Please enter patient's symptoms.");
    e.Cancel = true;
}
else
{

errorProvider1.SetError(WSymptomsTb,
null);
}

private void
SymptomsSTb_Validating(object sender,
CancelEventArgs e)
{
    if
(string.IsNullOrEmpty(SymptomsSTb
.Text))
    {

errorProvider1.SetError(SymptomsSTb,
"Please enter patient's start
symptoms.");
    e.Cancel = true;
}
else
{

errorProvider1.SetError(SymptomsSTb,
null);
}

private void
MedDTb_Validating(object sender,
CancelEventArgs e)
{
}

if
(string.IsNullOrEmpty(MedDTb.Text
))
{
    errorProvider1.SetError(MedDTb,
"Please enter medical diagnosis.");
    e.Cancel = true;
}
else
{
    errorProvider1.SetError(MedDTb, null);
}

private void
PatIdCb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Restrict input to digits
only
    if (!char.IsDigit(e.KeyChar)
&& e.KeyChar != (char)Keys.Back)
    {
        e.Handled = true;
    }
}

private void
PatFNameTb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Restrict input to
letters only
    if
(!char.IsLetter(e.KeyChar) &&
e.KeyChar != (char)Keys.Back &&
e.KeyChar != (char)Keys.Space)
    {
        e.Handled = true;
    }
}

private void
PatMNameTb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Restrict input to
letters only
    if
(!char.IsLetter(e.KeyChar) &&
e.KeyChar != (char)Keys.Back &&
e.KeyChar != (char)Keys.Space)
    {
```

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```

        e.Handled = true;
    }

    private void
PatLNameTb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Restrict input to
letters only
    if
(!char.IsLetter(e.KeyChar) &&
e.KeyChar != (char)Keys.Back &&
e.KeyChar != (char)Keys.Space)
    {
        e.Handled = true;
    }
}

private void
DocIdCb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Restrict input to
digits only
    if
(!char.IsDigit(e.KeyChar) && e.KeyChar
!= (char)Keys.Back)
    {
        e.Handled = true;
    }
}

private void
DocFNameTb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Restrict input to
letters only
    if
(!char.IsLetter(e.KeyChar) &&
e.KeyChar != (char)Keys.Back &&
e.KeyChar != (char)Keys.Space)
    {
        e.Handled = true;
    }
}

private void
DocMNameTb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Restrict input to
letters only
if
(!char.IsLetter(e.KeyChar) &&
e.KeyChar != (char)Keys.Back &&
e.KeyChar != (char)Keys.Space)
{
    e.Handled = true;
}
}

private void
DocLNameTb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Restrict input to
letters only
    if
(!char.IsLetter(e.KeyChar) &&
e.KeyChar != (char)Keys.Back &&
e.KeyChar != (char)Keys.Space)
    {
        e.Handled = true;
    }
}

private void
DocSpeciaTb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Restrict input to
letters and spaces only
    if
(!char.IsLetter(e.KeyChar) &&
e.KeyChar != (char)Keys.Back &&
e.KeyChar != (char)Keys.Space)
    {
        e.Handled = true;
    }
}

private void
WSymptomsTb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Restrict input to
letters and spaces only
    if
(!char.IsLetter(e.KeyChar) &&
e.KeyChar != (char)Keys.Back &&
e.KeyChar != (char)Keys.Space)
    {
        e.Handled = true;
    }
}

```

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```

        private void
SymptomsSTb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Restrict input to
letters only
    if
(!char.IsLetter(e.KeyChar) &&
e.KeyChar != (char)Keys.Back &&
e.KeyChar != (char)Keys.Space)
    {
        e.Handled = true;
    }
}

private void
MedDTb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Restrict input to
letters and spaces only
    if
(!char.IsLetter(e.KeyChar) &&
e.KeyChar != (char)Keys.Back &&
e.KeyChar != (char)Keys.Space)
    {
        e.Handled = true;
    }
}
}

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Data.SqlClient;
using System.Drawing;
using System.Drawing.Drawing2D;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Windows.Input;

namespace Patient_Management_System
{
    public partial class Prescription
    : Form
    {
        class GradientPanel : Panel
        {

```

```

            public Color ColorTop {
get; set; }
            public Color ColorBottom {
get; set; }

protected override void
OnPaint(PaintEventArgs e)
{
    LinearGradientBrush
lgb = new
LinearGradientBrush(this.ClientRectang
le, this.ColorTop, this.ColorBottom,
90F);
    Graphics g =
e.Graphics;
    g.FillRectangle(lgb,
this.ClientRectangle);
    base.OnPaint(e);
}

public Prescription()
{
    InitializeComponent();
    GetPatId();
    GetDocId();
    GetTreatId();
    GetMedId();
    DisplayPrescrip();
    Clear();
    searchTB.TextChanged +=
searchTB_TextChanged;
}

SqlConnection Con = new
SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDb
Filename="C:\Users\Angela
Ogares\OneDrive\Pictures\Documents\DBH
ealthCenter.mdf";Integrated
Security=True;Connect Timeout=30");
    private void DisplayPrescrip()
{
    Con.Open();
    string Query = "SELECT " +
"tblPrescription.PrescripId, " +
"PatientTbl.Fname AS PFName,
PatientTbl.Mname AS PMName,
PatientTbl.Lname AS PLName, " +
"DocTbl.Fname AS DFName, DocTbl.Mname
AS DMName, DocTbl.Lname AS DLName,
DocTbl.Specialization AS
Specialization, " +

```

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```

"tblTreatment.MDiagnosis,
tblPrescription.Medication,
tblPrescription.Source,
tblPrescription.Strength,
tblPrescription.Route,
tblPrescription.Mtakentime,
tblPrescription.QMedic,
tblPrescription.Mtakendays, tblPrescription.DFluids,
tblPrescription.RecordDate " +
                           "FROM
tblTreatment " +
                           "INNER JOIN
PatientTbl ON tblTreatment.PatId =
PatientTbl.PatId " +
                           "INNER JOIN
DocTbl ON tblTreatment.DocId =
DocTbl.DocId " + // Add a space here
                           "INNER JOIN
tblPrescription ON
tblPrescription.TreatId =
tblTreatment.TreatId"; // Use an alias
name for tblTreatment

SqlDataAdapter sda = new
SqlDataAdapter(Query, Con);

prescriptionDataTable.Clear(); // Clear the existing data

sda.Fill(prescriptionDataTable);

// Explicitly specify the
primary key column

prescriptionDataTable.PrimaryKey = new
DataColumn[] {
prescriptionDataTable.Columns["Prescri
pId"] };

PrescriptionDGV.DataSource
= prescriptionDataTable;

Con.Close();
}

private DataTable
GetDataFromDatabase()
{
    DataTable dataTable = new
DataTable();

try
{

```

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```

        Con.Open();
        //palitan mo to ng
joins, halos same itsura
        string query = "SELECT
* FROM tblPrescription";
        SqlDataAdapter adapter
= new SqlDataAdapter(query, Con);

adapter.Fill(dataTable);
}
catch (Exception ex)
{
    MessageBox.Show(ex.Message);
}
finally
{
    Con.Close();
}

return dataTable;
}

private void Clear()
{
    PatIdCb.SelectedIndex = 0;
    PatFNameTb.Text = "";
    PatMNameTb.Text = "";
    PatLNameTb.Text = "";
    DocIdCb.SelectedIndex = 0;
    DocFNameTb.Text = "";
    DocMNameTb.Text = "";
    DocLName.Text = "";
    DocSpeciTb.Text = "";
    TreatIdCb.SelectedIndex =
0;
    MedDtTb.Text = "";
    MedIdCb.SelectedIndex = 0;
    MedTb.Text = "";
    SourceCb.SelectedIndex =
0;
    StrengthTb.Text = "";
    RouteTb.Text = "";
    MTImeTb.Text = "";
    QuaMTb.Text = "";
    MedDayTb.Text = "";
    DFluidsTB.Text = "";
    key = 0;
}

private void GetPatName()
{
    if (PatIdCb != null &&
    PatIdCb.SelectedValue != null)
    {

```

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```

        Con.Open();
        string Query = "Select
* From PatientTbl Where PatId=" +
PatIdCb.SelectedValue.ToString() + "";
        SqlCommand cmd = new
SqlCommand(Query, Con);
        DataTable dt = new
DataTable();
        SqlDataAdapter sda =
new SqlDataAdapter(cmd);
        sda.Fill(dt);

        if (dt.Rows.Count > 0)
        {
            foreach (DataRow
dr in dt.Rows)
            {

                PatFNameTb.Text =
dr["Fname"].ToString();

                PatMNameTb.Text =
dr["Mname"].ToString();

                PatLNameTb.Text =
dr["Lname"].ToString();
            }
            Con.Close();
        }

        private void GetDocName()
        {
            if (DocIdCb != null &&
DocIdCb.SelectedValue != null)
            {
                Con.Open();
                string Query = "Select
* From DocTbl Where DocId=" +
DocIdCb.SelectedValue.ToString() + "";
                SqlCommand cmd = new
SqlCommand(Query, Con);
                DataTable dt = new
DataTable();
                SqlDataAdapter sda =
new SqlDataAdapter(cmd);
                sda.Fill(dt);

                if (dt.Rows.Count > 0)
                {
                    foreach (DataRow
dr in dt.Rows)
                    {
                        DocFNameTb.Text =
dr["Fname"].ToString();

                        DocMNameTb.Text =
dr["Mname"].ToString();
                        DocLName.Text
= dr["Lname"].ToString();

                        DocSpeciTb.Text =
dr["Specialization"].ToString();
                }
            }
            Con.Close();
        }

        private void GetTreatMed()
        {
            if (TreatIdCb != null &&
TreatIdCb.SelectedValue != null)
            {
                Con.Open();
                string Query = "Select
* From tblTreatment Where TreatId=" +
TreatIdCb.SelectedValue.ToString() + "";
                SqlCommand cmd = new
SqlCommand(Query, Con);
                DataTable dt = new
DataTable();
                SqlDataAdapter sda =
new SqlDataAdapter(cmd);
                sda.Fill(dt);

                if (dt.Rows.Count > 0)
                {
                    foreach (DataRow
dr in dt.Rows)
                    {
                        MedDTb.Text =
dr["MDiagnosis"].ToString();
                }
            }
            Con.Close();
        }

        private void GetMedName()
        {
            if (MedIdCb != null &&
MedIdCb.SelectedValue != null)
            {
                Con.Open();

```

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```

        string Query = "Select
* From Inventorytbl Where InvenId=" +
MedIdCb.SelectedValue.ToString() + "";
        SqlCommand cmd = new
SqlCommand(Query, Con);
        DataTable dt = new
DataTable();
        SqlDataAdapter sda =
new SqlDataAdapter(cmd);
        sda.Fill(dt);

        if (dt.Rows.Count > 0)
        {
            foreach (DataRow
dr in dt.Rows)
            {
                MedTb.Text =
dr["Name"].ToString();
            }
            Con.Close();
        }

        private void GetPatId()
{
    Con.Open();
    SqlCommand cmd = new
SqlCommand("Select PatId From
PatientTbl", Con);
    SqlDataReader rdr;
    rdr = cmd.ExecuteReader();
    DataTable dt = new
DataTable();
    dt.Columns.Add("PatId",
typeof(int));
    dt.Load(rdr);
    PatIdCb.ValueMember =
"PatId";
    PatIdCb.DataSource = dt;
    Con.Close();
}

        private void GetDocId()
{
    Con.Open();
    SqlCommand cmd = new
SqlCommand("Select DocId From DocTbl",
Con);
    SqlDataReader rdr;
    rdr = cmd.ExecuteReader();
    DataTable dt = new
DataTable();
    dt.Columns.Add("DocId",
typeof(int));
}

        dt.Load(rdr);
        DocIdCb.ValueMember =
"DocId";
        DocIdCb.DataSource = dt;
        Con.Close();
    }

        private void GetTreatId()
{
    Con.Open();
    SqlCommand cmd = new
SqlCommand("Select TreatId From
tblTreatment", Con);
    SqlDataReader rdr;
    rdr = cmd.ExecuteReader();
    DataTable dt = new
DataTable();
    dt.Columns.Add("TreatId",
typeof(int));
    dt.Load(rdr);
    TreatIdCb.ValueMember =
"TreatId";
    TreatIdCb.DataSource = dt;
    Con.Close();
}

        private void GetMedId()
{
    Con.Open();
    SqlCommand cmd = new
SqlCommand("Select InvenId From
Inventorytbl", Con);
    SqlDataReader rdr;
    rdr = cmd.ExecuteReader();
    DataTable dt = new
DataTable();
    dt.Columns.Add("InvenId",
typeof(int));
    dt.Load(rdr);
    MedIdCb.ValueMember =
"InvenId";
    MedIdCb.DataSource = dt;
    Con.Close();
}

        private void
SaveBtn_Click(object sender, EventArgs
e)
{
    if
(ValidateChildren(ValidationConstraint
s.Enabled))
    {
        // Validation
        successful, proceed with saving
    }
}

```

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```

        if (MedTb.Text == "" || 
StrengthTb.Text == "" || RouteTb.Text 
== "" || MTimeTb.Text == "" || 
QuaMTb.Text == "" || MedDayTb.Text == 
"" || DFluidsTB.Text == "") 
    {
        MessageBox.Show("Missing 
Information");
    }
    else
    {
        try
        {
            Con.Open();

                // Insert the
new record if no duplicate is found
            SqlCommand cmd
= new SqlCommand("INSERT INTO
tblPrescription (PatId, DocId,
TreatId, InvenId, Medication, Source,
Strength, Route, Mtakentime, QMedic,
Mtakendays, DFluids) VALUES (@PI, @DI,
@TI, @I, @M, @SC, @ST, @R, @MT, @QM,
@MTD, @F)", Con);

            cmd.Parameters.AddWithValue("@PI",
PatIdCb.SelectedValue);

            cmd.Parameters.AddWithValue("@DI",
DocIdCb.SelectedValue);

            cmd.Parameters.AddWithValue("@TI",
TreatIdCb.SelectedValue);

            cmd.Parameters.AddWithValue("@I",
MedIdCb.SelectedValue);

            cmd.Parameters.AddWithValue("@M",
MedTb.Text);

            cmd.Parameters.AddWithValue("@SC",
SourceCb.SelectedItem);

            cmd.Parameters.AddWithValue("@ST",
StrengthTb.Text);

            cmd.Parameters.AddWithValue("@R",
RouteTb.Text);

            cmd.Parameters.AddWithValue("@MT",
MTimeTb.Text);
        }
        catch (Exception
Ex)
{
    MessageBox.Show(Ex.Message);
}
else
{
    // Validation failed,
do not proceed with saving
    MessageBox.Show("Validation failed.
Please correct the errors.");
}
    }
}

private void
UpdateBtn_Click(object sender,
EventArgs e)
{
    if ( MedTb.Text == "" || 
StrengthTb.Text == "" || RouteTb.Text 
== "" || MTimeTb.Text == "" || 
QuaMTb.Text == "" || MedDayTb.Text == 
"" || DFluidsTB.Text == "") 
    {
        MessageBox.Show("Missing 
Information");
    }
    else
    {

```

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```

try
{
    Con.Open();
    SqlCommand cmd =
new SqlCommand("UPDATE tblPrescription
SET Medication = @M, Strength = @ST,
Route = @R, Mtakentime = @MT, QMedic =
@QM, Mtakendays = @MTD, DFluids = @F
WHERE PrescripId = @PKey", Con);

cmd.Parameters.AddWithValue("@M",
MedTb.Text);

cmd.Parameters.AddWithValue("@ST",
StrengthTb.Text);

cmd.Parameters.AddWithValue("@R",
RouteTb.Text);

cmd.Parameters.AddWithValue("@MT",
MTimeTb.Text);

cmd.Parameters.AddWithValue("@QM",
QuaMTb.Text);

cmd.Parameters.AddWithValue("@MTD",
MedDayTb.Text);

cmd.Parameters.AddWithValue("@F",
DFluidsTB.Text);

cmd.Parameters.AddWithValue("@PKey",
key);

cmd.ExecuteNonQuery();

MessageBox.Show("Prescription
Successfully Updated");
    Con.Close();
    DisplayPrescrip();
    Clear();
}
catch (Exception Ex)
{
    MessageBox.Show(Ex.Message);
}
}

int key = 0;
private void
PrescriptionDGV_CellContentClick(object
sender, DataGridViewCellEventArgs e)
{

```

```

if (e.RowIndex >= 0 &&
e.RowIndex <
PrescriptionDGV.Rows.Count)
{
    if
(PrescriptionDGV.Columns.Count >= 16)
{
        PatFNameTb.Text =
PrescriptionDGV.Rows[e.RowIndex].Cells
[1].Value?.ToString();
        PatMNameTb.Text =
PrescriptionDGV.Rows[e.RowIndex].Cells
[2].Value?.ToString();
        PatLNameTb.Text =
PrescriptionDGV.Rows[e.RowIndex].Cells
[3].Value?.ToString();
        DocFNameTb.Text =
PrescriptionDGV.Rows[e.RowIndex].Cells
[4].Value?.ToString();
        DocMNameTb.Text =
PrescriptionDGV.Rows[e.RowIndex].Cells
[5].Value?.ToString();
        DocLName.Text =
PrescriptionDGV.Rows[e.RowIndex].Cells
[6].Value?.ToString();
        DocSpeciTb.Text =
PrescriptionDGV.Rows[e.RowIndex].Cells
[7].Value?.ToString();
        MedDTb.Text =
PrescriptionDGV.Rows[e.RowIndex].Cells
[8].Value?.ToString();
        MedTb.Text =
PrescriptionDGV.Rows[e.RowIndex].Cells
[9].Value?.ToString();

        SourceCb.SelectedItem =
PrescriptionDGV.Rows[e.RowIndex].Cells
[10].Value?.ToString();
        StrengthTb.Text =
PrescriptionDGV.Rows[e.RowIndex].Cells
[11].Value.ToString();
        RouteTb.Text =
PrescriptionDGV.Rows[e.RowIndex].Cells
[12].Value.ToString();
        MTimeTb.Text =
PrescriptionDGV.Rows[e.RowIndex].Cells
[13].Value.ToString();
        QuaMTb.Text =
PrescriptionDGV.Rows[e.RowIndex].Cells
[14].Value.ToString();
        MedDayTb.Text =
PrescriptionDGV.Rows[e.RowIndex].Cells
[15].Value.ToString();
}
}

```

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```

DFluidsTB.Text =
PrescriptionDGV.Rows[e.RowIndex].Cells
[16].Value.ToString();

if (PatFNameTb.Text
== "")
{
    key = 0;
}
else
{
    key =
Convert.ToInt32(PrescriptionDGV.Rows[e
.RowIndex].Cells[0].Value?.ToString());
}

PrescSumTxt.Text =
"";

PrescSumTxt.Text =
"
Alabang Health Center\n\n" +
"

PRESCRIPTION          " +
"*****" +
"*****" + "\n" +

DateTime.Today.Date + "\n\n\nP A T I E
N T\n\n" +

"FirstName:" +
PrescriptionDGV.Rows[e.RowIndex].Cells
[1].Value.ToString() + "\t\t" +
"MiddleName:" +
PrescriptionDGV.Rows[e.RowIndex].Cells
[2].Value.ToString() + "\t" +
"LastName:" +
PrescriptionDGV.Rows[e.RowIndex].Cells
[3].Value.ToString() + "\n" +

"\nD O C T O R\n\n FirstName:" +
PrescriptionDGV.Rows[e.RowIndex].Cells
[4].Value.ToString() + "\t" +
"MiddleName:" +
PrescriptionDGV.Rows[e.RowIndex].Cells
[5].Value.ToString() + "\t\t" +
"LastName:" +
PrescriptionDGV.Rows[e.RowIndex].Cells
[6].Value.ToString() + "\n\n" +
"Specialization:\t" +
PrescriptionDGV.Rows[e.RowIndex].Cells
[7].Value.ToString() + "\n" +
"\n\n\nDiagnosis:" +
PrescriptionDGV.Rows[e.RowIndex].Cells
[8].Value.ToString() + "\t\t" +
"Medication:" +
PrescriptionDGV.Rows[e.RowIndex].Cells
[9].Value.ToString() + "\n" +
"Source:" +
PrescriptionDGV.Rows[e.RowIndex].Cells
[10].Value.ToString() + "\n" +
"Strength:" +
PrescriptionDGV.Rows[e.RowIndex].Cells
[11].Value.ToString() + "\n" +
"Route:" +
PrescriptionDGV.Rows[e.RowIndex].Cells
[12].Value.ToString() + "\n" +
"Medication Time Taken:\t" +
PrescriptionDGV.Rows[e.RowIndex].Cells
[13].Value.ToString() + "\n" +
"Quantity:" +
PrescriptionDGV.Rows[e.RowIndex].Cells
[14].Value.ToString() + "\n" +
"Medication taken in Days:" +
PrescriptionDGV.Rows[e.RowIndex].Cells
[15].Value.ToString() + "\n" +
"Drink Fluids:" +
PrescriptionDGV.Rows[e.RowIndex].Cells
[16].Value.ToString() + "\n";
}

private void
SetComboBoxSelectedItem(ComboBox
comboBox, string selectedItem)
{
    if
(!string.IsNullOrEmpty(selectedItem) &&
comboBox.Items.Contains(selectedItem))
    {
        comboBox.SelectedItem =
selectedItem;
    }
}

```

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```
        }

    private void
DeleteBtn_Click(object sender,
EventArgs e)
{
    if (key == 0)
    {
        MessageBox.Show("Select
Prescription");
    }
    else
    {
        try
        {
            Con.Open();
            SqlCommand cmd =
new SqlCommand("Delete From
tblPrescription Where
PrescripId=@PKey", Con);

cmd.Parameters.AddWithValue("@PKey",
key);

cmd.ExecuteNonQuery();

MessageBox.Show("Prescription
Successfully Deleted");
            Con.Close();
            DisplayPrescrip();
            Clear();
        }
        catch (Exception Ex)
        {

MessageBox.Show(Ex.Message);
        }
    }
}

private void
PatIdCb_SelectionChangeCommitted(object
sender, EventArgs e)
{
    GetPatName();
}

private void
DocIdCb_SelectionChangeCommitted(object
sender, EventArgs e)
{
    GetDocName();
}
```

```
        private void
TreatIdCb_SelectionChangeCommitted(object
sender, EventArgs e)
{
    GetTreatMed();
}

private void
PrintBtn_Click(object sender,
EventArgs e)
{
    if
(printPreviewDialog1.ShowDialog() ==
DialogResult.OK)
    {
        printDocument1.Print();
    }
}

private void
printDocument1_PrintPage(object
sender,
System.Drawing.Printing.PrintPageEvent
Args e)
{
    string textToPrint =
PrescSumTxt.Text;

    using (Font font = new
Font("Averia", 16, FontStyle.Regular))
    {
        // Calculate the center
        position for both X and Y
        float centerX =
(e.PageBounds.Width -
e.Graphics.MeasureString(textToPrint,
font).Width) / 2;
        float centerY =
(e.PageBounds.Height -
e.Graphics.MeasureString(textToPrint,
font).Height) / 2;

        // Draw the centered
        text

        e.Graphics.DrawString(textToPrint +
"\n", font, Brushes.Black, new
PointF(centerX, centerY));
    }
}

private DataTable
prescriptionDataTable = new
DataTable();
```

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```

private void
searchTB_TextChanged(object sender,
EventArgs e)
{
    string searchTerm =
searchTB.Text.Trim();

    if
(string.IsNullOrEmpty(searchTerm))
    {
        // If the search term
is empty or null, show all records
        DisplayPrescrip();
    }
    else
    {
        // Filter the
DataGridView based on the search term
        DataView dv = new
DataView(prescriptionDataTable);

        // Use parameters to
prevent SQL injection (even though
it's an in-memory DataTable)
        string filter =
$"CONVERT(PrescripId, 'System.String')"
LIKE '%{searchTerm}%' OR " +
$"CONVERT(PatId, 'System.String') LIKE
'%{searchTerm}%' OR " +
$"PFName LIKE '%{searchTerm}%' OR " +
$"PMName LIKE '%{searchTerm}%' OR " +
$"PLName LIKE '%{searchTerm}%' OR " +
$"CONVERT(DocId, 'System.String') LIKE
'%{searchTerm}%' OR " +
$"DFName LIKE '%{searchTerm}%' OR " +
$"DMName LIKE '%{searchTerm}%' OR " +
$"DLName LIKE '%{searchTerm}%' OR " +
$"Specialization LIKE '%{searchTerm}%' OR " +
$"CONVERT(TreatId, 'System.String') LIKE
'%{searchTerm}%' OR " +
$"MDiagnosis LIKE '%{searchTerm}%' OR "
+
$"Medication LIKE '%{searchTerm}%' OR "
+
$"Source LIKE '%{searchTerm}%' OR " +
$"Strength LIKE '%{searchTerm}%' OR "
+
$"Route
LIKE '%{searchTerm}%' OR " +
$"Mtakentime LIKE '%{searchTerm}%' OR "
+
$"QMedic LIKE '%{searchTerm}%' OR " +
$"Mtakendays LIKE '%{searchTerm}%' OR "
+
$"DFluids LIKE '%{searchTerm}%' OR " +
$"CONVERT(RecordDate, 'System.String')
LIKE '%{searchTerm}%'";
        // Use parameters to
prevent SQL injection
        dv.RowFilter = filter;

        // Update the
DataGridView with the filtered data
        PrescriptionDGV.DataSource =
dv.ToTable();
    }
}

private string
SanitizeSearchTerm(string term)
{
    // Basic sanitation:
Replace single quotes with double
single quotes
    return term.Replace("'", "''");
}

private void
MedIdCb_SelectionChangeCommitted(object sender, EventArgs e)
{
    GetMedName();
}

```

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```

        this.Hide();
    }

    private void
PatientBtn_Click_1(object sender,
EventArgs e)
{
    Patient Pat = new
Patient();
    Pat.Show();
    this.Hide();
}

    private void
VitalBtn_Click_1(object sender,
EventArgs e)
{
    Vital_Signs log = new
Vital_Signs();
    log.Show();
    this.Hide();
}

    private void
DoctorBtn_Click_1(object sender,
EventArgs e)
{
    Doctor Doc = new Doctor();
    Doc.Show();
    this.Hide();
}

    private void
TreatmentBtn_Click_1(object sender,
EventArgs e)
{
    Treatment Treat = new
Treatment();
    Treat.Show();
    this.Hide();
}

    private void
PrescriptionBtn_Click_1(object sender,
EventArgs e)
{
    Prescription Presc = new
Prescription();
    Presc.Show();
    this.Hide();
}

    private void
button7_Click_1(object sender,
EventArgs e)
{
    Login log = new Login();
    log.Show();
}

        this.Hide();
    }

    private void
cancelPicB_Click_2(object sender,
EventArgs e)
{
    Application.Exit();
}

    private void
Inventorybtn_Click(object sender,
EventArgs e)
{
    Inventory Invent = new
Inventory();
    Invent.Show();
    this.Hide();
}

    private void
DashboardBtn_Click_1(object sender,
EventArgs e)
{
    Dashboard log = new
Dashboard();
    log.Show();
    this.Hide();
}

    private void
PatIdCb_Validating(object sender,
CancelEventArgs e)
{
    if (PatIdCb.SelectedValue
== null ||
string.IsNullOrWhiteSpace(PatIdCb.Text))
    {
        errorProvider1.SetError(PatIdCb,
"Please select a valid ID Patient.");
        e.Cancel = true;
    }
    else
    {
        errorProvider1.SetError(PatIdCb,
null);
    }
}

    private void
PatFNameTb_Validating(object sender,
CancelEventArgs e)

```

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```

{
    if
(string.IsNullOrEmpty(PatFNameTb.
Text))
{
    errorProvider1.SetError(PatFNameTb,
"Please enter patient's first name.");
    e.Cancel = true;
}
else
{
    errorProvider1.SetError(PatFNameTb,
null);
}

private void
PatMNameTb_Validating(object sender,
CancelEventArgs e)
{
    // Validation logic for
middle name
    if
(string.IsNullOrEmpty(PatMNameTb.Text.
Trim()))
{
    errorProvider1.SetError(PatMNameTb,
"Middle Name is required.");
    e.Cancel = true;
}
else
{
    errorProvider1.SetError(PatMNameTb,
(""));
}

private void
PatLNameTb_Validating(object sender,
CancelEventArgs e)
{
    // Validation logic for
last name
    if
(string.IsNullOrEmpty(PatLNameTb.Text.
Trim()))
{
    errorProvider1.SetError(PatLNameTb,
"Last Name is required.");
    e.Cancel = true;
}

}
else
{
    errorProvider1.SetError(PatLNameTb,
(""));
}

private void
DocIdCb_Validating(object sender,
CancelEventArgs e)
{
    if (DocIdCb.SelectedValue
== null ||
string.IsNullOrEmpty(DocIdCb.Text))
{
    errorProvider1.SetError(DocIdCb,
"Please select a valid ID Doctor.");
    e.Cancel = true;
}
else
{
    errorProvider1.SetError(DocIdCb,
null);
}

private void
DocFNameTb_Validating(object sender,
CancelEventArgs e)
{
    if
(string.IsNullOrEmpty(DocFNameTb.
Text))
{
    errorProvider1.SetError(DocFNameTb,
"Please enter doctor's first name.");
    e.Cancel = true;
}
else
{
    errorProvider1.SetError(DocFNameTb,
null);
}

private void
DocMNameTb_Validating(object sender,
CancelEventArgs e)
{
}

```

Submitted by: **ANGELA OGARES**
ANGEL PABLO
ROSELLE ESBRA
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Section: **BSIT**

MARY ANGEL ABEGAIL SALES,
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JEROME HASAL,
NICOLE ANN GUITIERREZ

EVENT – DRIVEN PROGRAMMING
1st SEMESTER, A.Y. 2023 – 2024

```
{  
    if  
(string.IsNullOrEmpty(DocMNameTb.  
Text))  
    {  
  
errorProvider1.SetError(DocMNameTb,  
"Please enter doctor's middle name.");  
    e.Cancel = true;  
}  
else  
{  
  
errorProvider1.SetError(DocMNameTb,  
null);  
}  
  
}  
  
private void  
DocLName_Validating(object sender,  
CancelEventArgs e)  
{  
    if  
(string.IsNullOrEmpty(DocLName.Te  
xt))  
    {  
  
errorProvider1.SetError(DocLName,  
"Please enter doctor's last name.");  
    e.Cancel = true;  
}  
else  
{  
  
errorProvider1.SetError(DocLName,  
null);  
}  
  
}  
  
private void  
DocSpeciTb_Validating(object sender,  
CancelEventArgs e)  
{  
    if  
(string.IsNullOrEmpty(DocSpeciTb.  
Text))  
    {  
  
errorProvider1.SetError(DocSpeciTb,  
"Please enter doctor's  
specialization.");  
    e.Cancel = true;  
}
```



```
        else  
        {  
  
errorProvider1.SetError(DocSpeciTb,  
null);  
}  
  
}  
  
private void  
TreatIdCb_Validating(object sender,  
CancelEventArgs e)  
{  
    if (TreatIdCb.SelectedValue  
== null ||  
string.IsNullOrEmpty(TreatIdCb.Te  
xt))  
    {  
  
errorProvider1.SetError(TreatIdCb,  
"Please select a valid ID  
Treatment.");  
    e.Cancel = true;  
}  
else  
{  
  
errorProvider1.SetError(TreatIdCb,  
null);  
}  
  
}  
  
private void  
MedDTb_Validating(object sender,  
CancelEventArgs e)  
{  
    if  
(string.IsNullOrEmpty(MedDTb.Text  
))  
    {  
  
errorProvider1.SetError(MedDTb,  
"Please enter medical diagnosis.");  
    e.Cancel = true;  
}  
else  
{  
  
errorProvider1.SetError(MedDTb, null);  
}  
  
}  
  
private void  
MedIdCb_Validating(object sender,  
CancelEventArgs e)  
{  
}
```

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```

        if (MedIdCb.SelectedValue
== null ||
string.IsNullOrEmpty(MedIdCb.Text
))
{
}

errorProvider1.SetError(MedIdCb,
"Please select a valid ID Medicine.");
    e.Cancel = true;
}
else
{
}

errorProvider1.SetError(MedIdCb,
null);
}

private void
SourceCb_Validating(object sender,
CancelEventArgs e)
{
    if (SourceCb.SelectedIndex
== -1)
    {
        e.Cancel = true;
    }

errorProvider1.SetError(SourceCb,
"Please select a source.");
}
else
{
    e.Cancel = false;
}

errorProvider1.SetError(SourceCb,
null);
}

private void
StrengthTb_Validating(object sender,
CancelEventArgs e)
{
    // Validation logic for
age
    if
(string.IsNullOrEmpty(StrengthTb.Text.
Trim()))
    {
        e.Cancel = true;
    }

errorProvider1.SetError(StrengthTb,
"Strength is required.");
    StrengthTb.Focus();
}
else
{
}
    e.Cancel = false;
}

errorProvider1.SetError(StrengthTb,
"");
    errorProvider1.SetError(StrengthTb,
"");
}

private void
RouteTb_Validating(object sender,
CancelEventArgs e)
{
    if
(string.IsNullOrEmpty(RouteTb.Text))
    {
        e.Cancel = true;
    }

errorProvider1.SetError(RouteTb,
"Route is required.");
}
else
{
    e.Cancel = false;
}

errorProvider1.SetError(RouteTb,
null);
}

private void
MTimeTb_Validating(object sender,
CancelEventArgs e)
{
    if
(string.IsNullOrEmpty(MTimeTb.Text))
    {
        e.Cancel = true;
    }

errorProvider1.SetError(MTimeTb,
"Medication time is required.");
}
else
{
    e.Cancel = false;
}

errorProvider1.SetError(MTimeTb,
null);
}

private void
QuaMTb_Validating(object sender,
CancelEventArgs e)
{
}

```

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1st SEMESTER, A.Y. 2023 – 2024

```

        if
(string.IsNullOrEmpty(QuaMTb.Text))
{
    e.Cancel = true;
}

errorProvider1.SetError(QuaMTb,
"Quantity is required.");
}
else
{
    e.Cancel = false;
}

errorProvider1.SetError(QuaMTb, null);
}

private void
MedDayTb_Validating(object sender,
CancelEventArgs e)
{
    if
(string.IsNullOrEmpty(MedDayTb.Text))
{
    e.Cancel = true;
}

errorProvider1.SetError(MedDayTb,
"Medication day is required.");
}
else
{
    e.Cancel = false;
}

errorProvider1.SetError(MedDayTb,
null);
}

private void
DFluidsTB_Validating(object sender,
CancelEventArgs e)
{

    if
(string.IsNullOrEmpty(DFluidsTB.Text))
{
    e.Cancel = true;
}

errorProvider1.SetError(DFluidsTB,
"Drink Fluids is required.");
}
else
{
    e.Cancel = false;
}

errorProvider1.SetError(DFluidsTB,
null);
}

private void
SourceCb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Disable manual entry
and restrict to selecting an item from
the list
    e.Handled = true;
}

private void
StrengthTb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Allow only numeric
input and backspace
    if
(!char.IsLetterOrDigit(e.KeyChar) &&
e.KeyChar != (char)Keys.Back)
{
        e.Handled = true;
}
}

private void
RouteTb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Allow only letters,
numbers, and backspace
    if
(!char.IsLetterOrDigit(e.KeyChar) &&
e.KeyChar != (char)Keys.Back)
{
        e.Handled = true;
}
}

private void
MTimeTb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Allow only numeric
input and backspace
    if
(!char.IsLetterOrDigit(e.KeyChar) &&
e.KeyChar != (char)Keys.Back)
{
        e.Handled = true;
}
}

```

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```

        }

    private void
QuaMTb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Allow only numeric
input and backspace
    if
(!char.IsLetterOrDigit(e.KeyChar) &&
e.KeyChar != (char)Keys.Back)
    {
        e.Handled = true;
    }
}

private void
MedDayTb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Allow only numeric
input and backspace
    if
(!char.IsLetterOrDigit(e.KeyChar) &&
e.KeyChar != (char)Keys.Back)
    {
        e.Handled = true;
    }
}

private void
DFluidsTB_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Allow only numeric
input, backspace, and space
    if
(!char.IsLetter(e.KeyChar) &&
e.KeyChar != (char)Keys.Back &&
e.KeyChar != ' ')
    {
        e.Handled = true;
    }
}
}

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Data.SqlClient;
using System.Drawing;

```

Submitted by: **ANGELA OGARES**
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```

using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Windows.Input;

namespace Patient_Management_System
{
    public partial class Inventory : Form
    {
        public Inventory()
        {
            InitializeComponent();
            DisplayInvent();
            Clear();
            searchTB.TextChanged += searchTB_TextChanged;
        }

        SqlConnection Con = new
SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDb
Filename="C:\Users\Angela
Ogares\OneDrive\Pictures\Documents\DBH
ealthCenter.mdf";Integrated
Security=True;Connect Timeout=30");
        private void DisplayInvent()
        {
            Con.Open();

            string Query =
                "SELECT " +
                "Inventorytbl.InvenId, " +
                "Inventorytbl.Name
AS GenericName, " +
                "Inventorytbl.Quantity, " +
                "Inventorytbl.Expiry AS Expiry_Date, " +
                "Inventorytbl.RecordDate AS
MedicineIN, " +
                "COALESCE(tblPrescription.QMedic, 0)
AS MedicineOUT, " +
                "(Inventorytbl.Quantity -
COALESCE(tblPrescription.QMedic, 0))
AS AvailableMed " +
                "FROM " +
                "Inventorytbl " +
                "LEFT JOIN " +

```

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```

        "tblPrescription
ON Inventorytbl.InvenId =
tblPrescription.InvenId AND
tblPrescription.Source = 'Free'";

        SqlDataAdapter sda = new
SqlDataAdapter(Query, Con);
        DataTable
inventoryDataTable = new DataTable();
// Create a new DataTable

sda.Fill(inventoryDataTable);

        // Check for and handle
duplicate values
        var duplicateRows =
inventoryDataTable.AsEnumerable()
.GroupBy(row => row["InvenId"])
.Where(group => group.Count() > 1)
.Select(group => group.Key);

        // Handle duplicates
(remove or handle as needed)
        if (duplicateRows.Any())
{
            // For example, you
can keep only one instance of each
duplicate
            var uniqueDataTable =
inventoryDataTable.AsEnumerable()

.GroupBy(row => row["InvenId"])

.Select(group => group.First())

.CopydataTable();

        // Set the primary key
for the uniqueDataTable

uniqueDataTable.PrimaryKey = new
DataColumn[] {
uniqueDataTable.Columns["InvenId"] };

InventoryDGV.DataSource =
uniqueDataTable;
    }
    else
    {
        // Set the primary key
for the original inventoryDataTable
    }

```

```

inventoryDataTable.PrimaryKey = new
DataColumn[] {
inventoryDataTable.Columns["InvenId"]
};

InventoryDGV.DataSource =
inventoryDataTable;
}

Con.Close();
}

private DataTable
inventoryDataTable = new DataTable();

private DataTable
GetDataFromDatabase()
{
    DataTable dataTable = new
DataTable();

try
{
    Con.Open();
    //palitan mo to ng
joins, halos same itsura
    string query = "SELECT
* FROM Inventorytbl";
    SqlDataAdapter adapter
= new SqlDataAdapter(query, Con);

adapter.Fill(dataTable);
}
catch (Exception ex)
{

MessageBox.Show(ex.Message);
}
finally
{
    Con.Close();
}

return dataTable;
}

private void Clear()
{
    MedNameTb.Text = "";
    QuanTb.Text = "";
    ExpiryDTP.Value = new
DateTime(2024, 1, 1);
    key = 0;
}

```

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```

        }

    }

    private void
searchTB_TextChanged(object sender,
EventArgs e)
{
    string searchTerm =
searchTB.Text.Trim();

    if
(string.IsNullOrEmpty(searchTerm))
{
    // If the search term
is empty or null, show all records
    DisplayInvent();
}
else
{
    // Filter the
DataTable based on the search term
    DataView dv = new
DataView(inventoryDataTable);

    // Construct a filter
for each column
    string columnFilters =
"";

    foreach ( DataColumn
column in inventoryDataTable.Columns)
    {
        string columnName
= column.ColumnName;

        if
(column.DataType == typeof(DateTime))
        {
            // If the
column is of type DateTime, use an
exact match
            columnFilters
+= $"CONVERT([{columnName}],
'System.String') = '{searchTerm}' OR
";
        }
        else
        {
            // For other
column types, use the LIKE operation
            columnFilters
+= $"CONVERT([{columnName}],
'System.String') LIKE '%{searchTerm}%' OR ";
        }
    }
}
}

// Remove the trailing
" OR " from the last iteration
if
(!string.IsNullOrEmpty(columnFilters))
{
    columnFilters =
columnFilters.Substring(0,
columnFilters.Length - 4);
}

dv.RowFilter =
columnFilters;

// Update the
DataGridView with the filtered data
InventoryDGV.DataSource =
dv.ToTable();
}

private void
Inventory_Load(object sender,
EventArgs e)
{
    // Load data into
DataGridView
    DisplayInvent();

    // Subscribe to the
TextChanged event of the TextBox
    searchTB.TextChanged +=
searchTB_TextChanged;
}

int key = 0;
private void
InventoryDGV_CellContentClick(object
sender, DataGridViewCellEventArgs e)
{
    if (e.RowIndex >= 0 &&
e.RowIndex < InventoryDGV.Rows.Count)
    {
        if
(InventoryDGV.Columns.Count >= 6)
        {
            MedNameTb.Text =
InventoryDGV.Rows[e.RowIndex].Cells[1]
.Value.ToString();
            QuanTb.Text =
InventoryDGV.Rows[e.RowIndex].Cells[2]
.Value.ToString();
        }
    }
}

```

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```

        // Convert the
string to DateTime before assigning to
ExpiryDTP
        if
(DateTime.TryParse(InventoryDGV.Rows[e
.RowIndex].Cells[3].Value.ToString(),
out DateTime expiryDate))
        {

ExpiryDTP.Value = expiryDate;
}

if (MedNameTb.Text
== "")
{
    key = 0;
}
else
{
    key =
Convert.ToInt32(InventoryDGV.Rows[e.Ro
wIndex].Cells[0].Value.ToString());
}
}

private void
SaveBtn_Click(object sender, EventArgs
e)
{
    // Trigger validation for
all validated controls in the form
    if
(ValidateChildren(ValidationConstraint
s.Enabled))
    {
        // Validation
        successful, proceed with the logic
        if (MedNameTb.Text ==
"" || QuanTb.Text == "")
        {

MessageBox.Show("Missing
Information");
    }
    else
    {
        try
        {
            Con.Open();
            SqlCommand cmd
= new SqlCommand("Insert Into
Inventorytbl (Name, Quantity, Expiry,
RecordDate) values (@MN, @Q, @E,
getdate()", Con);
            cmd.Parameters.AddWithValue("@MN",
MedNameTb.Text);
            cmd.Parameters.AddWithValue("@Q",
QuanTb.Text);
            cmd.Parameters.AddWithValue("@E",
ExpiryDTP.Value.Date);
            cmd.ExecuteNonQuery();
            MessageBox.Show("Inventory
Successfully Added");
            Con.Close();
        }
        catch (Exception
Ex)
        {
            MessageBox.Show(Ex.Message);
        }
    }
}

private void
UpdateBtn_Click(object sender,
EventArgs e)
{
    if (MedNameTb.Text == ""
|| QuanTb.Text == "")
    {

MessageBox.Show("Missing
Information");
    }
    else
    {
        try
        {
            Con.Open();
            SqlCommand cmd =
new SqlCommand("Update Inventorytbl
Set Name=@MN, Quantity=@Q, Expiry=@E
Where InvenId=@IKey", Con);

```

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```

cmd.Parameters.AddWithValue("@MN",
MedNameTb.Text);

cmd.Parameters.AddWithValue("@Q",
QuanTb.Text);

cmd.Parameters.AddWithValue("@E",
ExpiryDTP.Value.Date);

cmd.Parameters.AddWithValue("@IKey",
key);

cmd.ExecuteNonQuery();

MessageBox.Show("Inventory
Successfully Updated");
Con.Close();

// Refresh the
DataGridView after updating data
DisplayInvent();

Clear();

}

catch (Exception Ex)
{

}

MessageBox.Show(Ex.Message);
}
}

private void
PatientBtn_Click(object sender,
EventArgs e)
{
Patient Pat = new
Patient();
Pat.Show();
this.Hide();
}

private void
VitalBtn_Click(object sender,
EventArgs e)
{
Vital_Signs log = new
Vital_Signs();
log.Show();
this.Hide();
}

private void
DoctorBtn_Click(object sender,
EventArgs e)
{
Doctor Doc = new Doctor();
Doc.Show();
this.Hide();
}

private void
TreatmentBtn_Click(object sender,
EventArgs e)

```

Submitted by: ANGELA OGARES
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```

{
    Treatment Treat = new
Treatment();
    Treat.Show();
    this.Hide();
}

private void
PrescriptionBtn_Click(object sender,
EventArgs e)
{
    Prescription Presc = new
Prescription();
    Presc.Show();
    this.Hide();
}

private void
Inventorybtn_Click(object sender,
EventArgs e)
{
    Inventory Invert = new
Inventory();
    Invert.Show();
    this.Hide();
}

private void
button7_Click(object sender, EventArgs
e)
{
    Login log = new Login();
    log.Show();
    this.Hide();
}

private void
cancelPicB_Click(object sender,
EventArgs e)
{
    Application.Exit();
}

private void
DashboardBtn_Click(object sender,
EventArgs e)
{
    Dashboard log = new
Dashboard();
    log.Show();
    this.Hide();
}

```

```

private void
MedNameTb_Validating(object sender,
CancelEventArgs e)
{
    if
(string.IsNullOrEmpty(MedNameTb.T
ext))
    {
        errorProvider1.SetError(MedNameTb,
"Medicine name is required.");
        e.Cancel = true;
    }
    else
    {

        errorProvider1.SetError(MedNameTb,
""); // Clear the error message
    }
}

private void
QuanTb_Validating(object sender,
CancelEventArgs e)
{
    if
(string.IsNullOrEmpty(QuanTb.Text
))
    {
        errorProvider1.SetError(QuanTb,
"Quantity is required.");
        e.Cancel = true;
    }
    else
    {

        errorProvider1.SetError(QuanTb, "");
        // Clear the error message
    }
}

private void
ExpiryDTP_Validating(object sender,
CancelEventArgs e)
{
    // Assuming ExpiryDTP is a
DateTimePicker
    if (ExpiryDTP.Value.Date <
DateTime.Today)
    {
        e.Cancel = true;

        errorProvider1.SetError(ExpiryDTP,
"Expiry date must be in the future.");
    }
}

```

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```
        ExpiryDTP.Focus();
    }
    else
    {
        e.Cancel = false;
    }

errorProvider1.SetError(ExpiryDTP,
 ""); // Clear the error message
    }
}

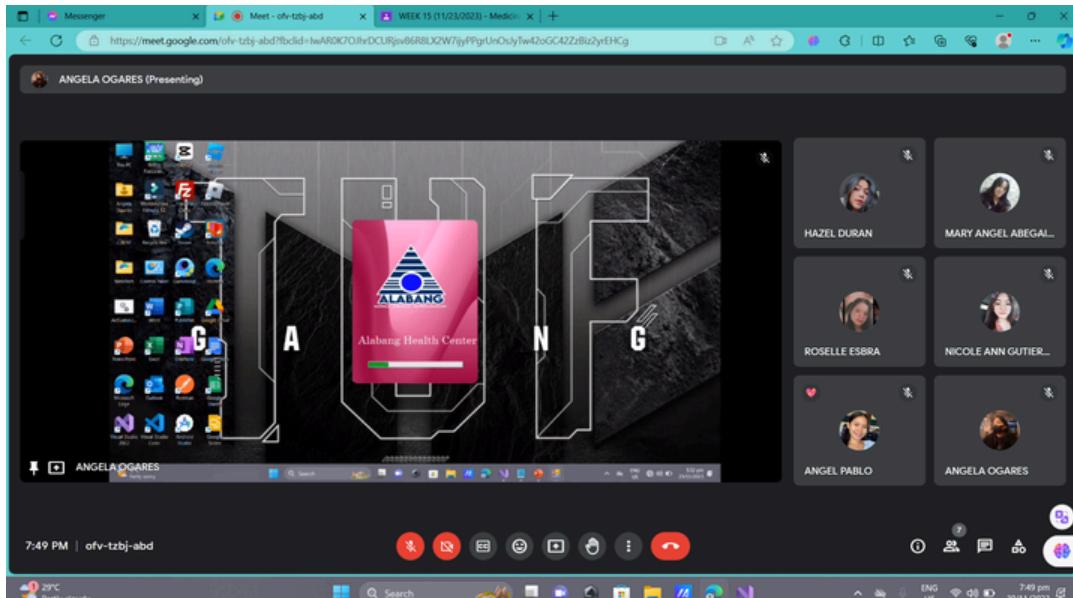
private void
MedNameTb_KeyPress(object sender,
KeyPressEventArgs e)
{
    // Allow only letters,
    digits, and backspace
    if
    (!char.IsLetter(e.KeyChar) &&
e.KeyChar != (char)Keys.Back &&
!char.IsWhiteSpace(e.KeyChar))
    {
        e.Handled = true;
    }
}

private void
QuanTb_KeyPress(object sender,
KeyPressEventArgs e)
```

```
    {
        // Allow only digits and
        backspace
        if
        (!char.IsDigit(e.KeyChar) && e.KeyChar
!= (char)Keys.Back)
        {
            e.Handled = true;
        }
    }

private void
ExpiryDTP_KeyDown(object sender,
System.Windows.Forms.KeyEventArgs e)
{
    // Prevent manual entry in
    the DateTimePicker
    e.SuppressKeyPress = true;
}
```

PROOF OF GROUP PARTICIPATION / COLLABORATION



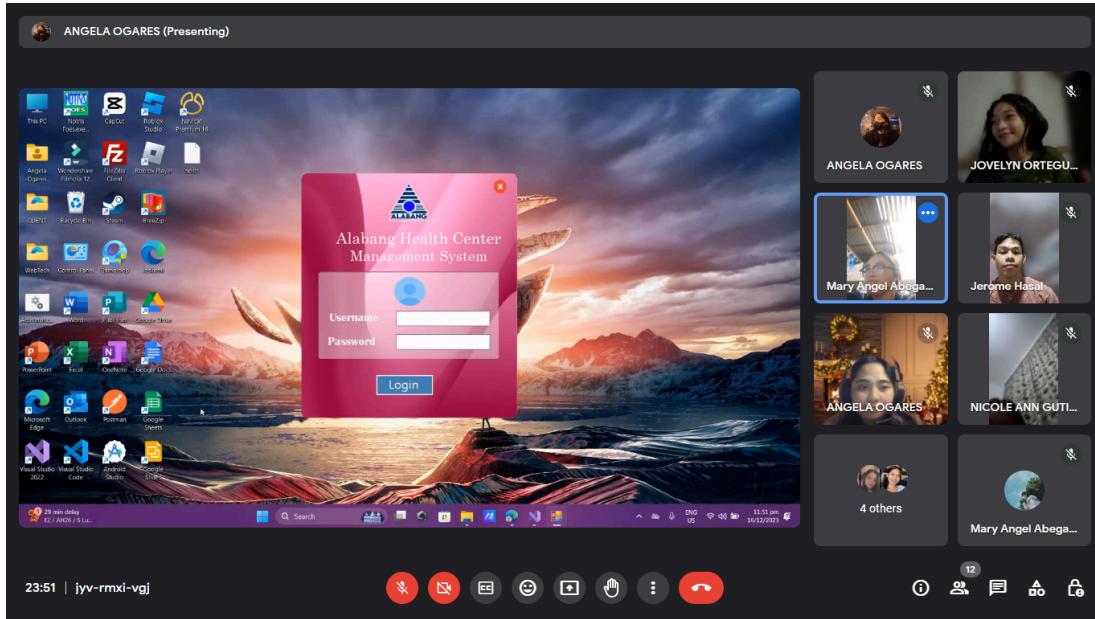
Submitted by: **ANGELA OGARES**
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A screenshot of a Google Meet session titled 'Meet - jyv-rmxj-vgj'. The top bar shows the URL 'meet.google.com/jyv-rmxj-vgj'. The video grid on the right shows several participants, including ANGELA OGARES (Presenting), Mary Angel Abega..., Jerome Hasal, ANGELA OGARES, JOVELYN ORTEGUERO, NICOLE ANN GUTIERREZ, ROSELLE ESBRA, and 3 others. A message from Dropbox at the bottom right says 'Screenshot Added' and 'A screenshot was added to your Dropbox.' The main content area displays a dashboard for the 'Alabang Health Center Management System'. It features a sidebar with navigation links: Dashboard, Patient, Vital Sign, Doctor, Treatment, Prescription, and Inventory. The dashboard itself has sections for 'Total Patients: 9' and 'Total Doctor: 3'. It includes three charts: a bar chart for 'Diagnosis' (Fever, Gingivitis, LBM) with values approximately 3, 2, and 2 respectively; a line graph for 'Availability' showing a downward trend from Monday to Friday; and a pie chart for 'PatientCount' (Female, Male) with Female being the majority. The bottom of the screen shows the Windows taskbar with various pinned icons and the time '23:53'.

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EVENT – DRIVEN PROGRAMMING

1st SEMESTER, A.Y. 2023 – 2024

Patient

ALABANG Health Center Management System

Dashboard Patient Vital Sign Doctor Treatment Prescription Inventory Logout

First Name: [] Date of Birth: 1/12/2023
Middle Name: [] Gender: []
Last Name: [] Address: []
Contact Number: [] Age: []

Save Edit Delete

Search

Field	Name	Middle Name	Last Name	ConN	Date	Gender	Address	Age
101	Aka		Alabang	Ogares	0917322726	12/06/2018	Female	2 years old
102	Angela		Ruthie	Ogares	0917322726	12/11/2002	Female	21 years old
103	Jeronine		Sabatino	Head	09176915	06/06/2000	Male	23 years old
104	Mary		Hazel	Fausto	0918305100	31/08/2002	Female	21 years old
105	Hazel		Hazel	Hazel	098178	07/12/2023	Male	0 months old
106	Sofia		The	Fitz	0907912114	06/06/2006	Female	17 years old
107	Jenny		Kai	Ubial	0917549151	08/02/2000	Female	23 years old
108	Jeanne		DuGuaman	DeGuaman	0917963114	10/07/1985	Male	38 years old

23:53 | jyv-rmxi-vgj

Meet.google.com/jyv-rmxi-vgj?fbclid=IwAR1wDjBc9_1Td6O-a4JGaGPjetWFbJC9CfVLPPqmWqLF_LGISOQ1qG0vwY

11:53 PM 16/12/2023

Vital Signs

ALABANG Health Center Management System

Dashboard Patient Vital Sign Doctor Treatment Prescription Inventory Logout

Patient ID: 108 First Name: Jomar Middle Name: [] Last Name: DeGuaman Contact Number: 09181743114 Age: 38 years old

What Allergies do you have? None Blood Pressure: 120/80
Weight: 45kg Body Temperature: 35 Height: 160cm

Save Edit Delete

Search

Field	Patient ID	First Name	Middle Name	Last Name	ConN	Date	Weight	Height	Blood Pressure	Body Temp	Record Date
101	108	Jomar		DeGuaman	09181743114	12/06/2018	45kg	160cm	120/80	35	11/12/2023
102	104	May		Head	0917322726	21/08/2002	None	150cm	120/80	31	07/12/2023
103	105	Hazel		Hazel	098178	07/12/2023	None	150cm	120/80	33	07/12/2023
106	108	Jeanne		DuGuaman	0917963114	10/07/1985	None	160cm	120/80	36	11/12/2023

23:53 | jyv-rmxi-vgj

Meet.google.com/jyv-rmxi-vgj?fbclid=IwAR1wDjBc9_1Td6O-a4JGaGPjetWFbJC9CfVLPPqmWqLF_LGISOQ1qG0vwY

11:53 PM 16/12/2023

Submitted by: **ANGELA OGARES**
ANGEL PABLO
ROSELLE ESBRA
HAZEL DURAN

MARY ANGEL ABEGAIL SALES,
JOVELYN ORTIGUERO,
JEROME HASAL,
NICOLE ANN GUITIERREZ

Section: BSIT

EVENT – DRIVEN PROGRAMMING

1st SEMESTER, A.Y. 2023 – 2024

ANGELA OGARES (Presenting)

Doctor

First Name	Jeney	Date of Birth	04/12/1998
Middle Name	Villanueva	Gender	Female
Last Name	Ogara	Address	Wawa
Contact Number	09615481311	Specialization	Dentist

Search

ID	First Name	Middle Name	Last Name	Gender	Address	Specialization
103	Jeney	Cris	Bonny	Male	1603782276	Pediatric
104	Maria	Igor	Malin	Male	1603782276	Pediatric
105	Jeney	Roxanne	Sofia	Female	1603782276	Pediatric

23:53 | jyv-rmxi-vgj

12

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ANGELA OGARES (Presenting)

Prescription

Patient

Doctor

Treatment

Medication

Print

Search

PrescripID	PFirstName	MiddleName	PLName	DLName	DLName	Specialties	Diagnoses	Medication	Source	Strength	Route	Manufacturer	Gлик	Units	RecordDate
100	Ika	Rosario	Ogara	Jeney	Cris	Bonny	Pediatric	Fever	Briggoose	Free	500mg	Oral	2	1	05/12/2023
101	May	Hazel	Esbra	Roxy	Nicole	Ann	Pediatric	Flu	Briggoose	Free	500mg	Oral	2	1	05/12/2023
102	Hazel	Hazel	Hasal	Jerome	Jerome	Hasal	Pediatric	Fever	Adult	Free	500mg	Oral	5	2	05/12/2023
103	Jeney	Kris	Usual	Jeney	Villanueva	Delos	Dentist	Orthodontics	Free	200mg	Oral	6	2	05/12/2023	
104	Zenar	Ramos	Desiderio	Jenny	Villanueva	Gege	Dentist	Orthodontics	Free	500mg	Oral	4	2	05/12/2023	
105	Jeney	Kris	Usual	Jeney	Villanueva	Delos	Dentist	Orthodontics	Free	500mg	Oral	21	7	05/12/2023	

23:54 | jyv-rmxi-vgj

Dropbox

Screenshot Added
A screenshot was added to your Dropbox.

11:54 PM 16/12/2023

Submitted by: ANGELA OGARES

ANGEL PABLO
ROSELLE ESBRA
HAZEL DURAN

MARY ANGELA BEGAIL SALES,
JOVELYN ORTIGUERO,
JEROME HASAL,
NICOLE ANN GUITIERREZ

Section: BSIT

EVENT – DRIVEN PROGRAMMING

1st SEMESTER, A.Y. 2023 – 2024

The screenshot shows a Google Meet interface. On the left, there's a slide titled "Inventory" from the "Alabang Health Center Management System". The slide displays a form with fields for Name (Metenamic), Expiry Date (01/01/2024), and Quantity (100). Below the form is a table of inventory items:

Inventory	Generic Name	Quantity	Expiry Date	MedicineIn	MedicineOut	AvailableMed
1	Baby	100	Jan 1, 2024 (09:00AM)	50	50	50
2	Baby	200	Dec 31, 2023	100	100	100
3	Adult	150	Jan 1, 2024 (12:00PM)	80	70	140
4	Metenamic	100	Jan 1, 2024 (09:00AM)	50	50	50

On the right side of the slide, there are video thumbnails for participants: ANGELA OGARES (Presenting), Mary Angel Abegail Sales, Jerome Hasal, ANGELA OGARES, JOVELYN ORTEGUERO, NICOLE ANN GUTIERREZ, ROSELLE ESBRA, 3 others, and Mary Angel Abegail Sales. The bottom of the screen shows the Windows taskbar with various application icons.

The screenshot shows a Google Meet interface. On the left, there's a slide with the Alabang Health Center logo and the title "DEVELOPMENT OF TRANSACTION MANAGEMENT SYSTEM FOR ALABANG HEALTH CENTER". The slide also features the tagline "MASIGLA . MAUNLAD . MAIPAGMAMALAK" and "Bagong Alabang". On the right side of the slide, there are video thumbnails for participants: Jerome Hasal, ANGELA OGARES, Mary Angel Abegail Sales, ANGELA OGARES, JOVELYN ORTEGUERO, NICOLE ANN GUTIERREZ, 4 others, and Mary Angel Abegail Sales. The bottom of the screen shows the Windows taskbar with various application icons.

Submitted by: **ANGELA OGARES**
ANGEL PABLO
ROSELLE ESBRA
HAZEL DURAN

Section: **BSIT**

MARY ANGEL ABEGAIL SALES,
JOVELYN ORTEGUERO,
JEROME HASAL,
NICOLE ANN GUTIERREZ

EVENT – DRIVEN PROGRAMMING
1st SEMESTER, A.Y. 2023 – 2024



Submitted by: **ANGELA OGARES**
ANGEL PABLO
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MARY ANGEL ABEGAIL SALES,
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