

Demeter Project - COMPROG

Laboratory Project

Barangay Appointment Management System

Project Description:

The “Barangay Appointment Management System” is a website or an app that could help in making appointments in the Barangay.

In this program the user is prompted to select an action from a menu: schedule an appointment and exit the program. If the user selects "schedule an appointment", they are prompted to enter the name, purpose, date, and time of the appointment. With these, conducting and managing appointments would be easier and more organized.

YOUTUBE DEMO LINK:

https://l.messenger.com/l.php?u=https%3A%2F%2Fyoutu.be%2FB9Y-iWCcLVg&h=AT3m-ptVwtc7Pf6myGFhJHE86eol2b63XmSXV9D6Uio1lq1gjcRpoDw-HbA8AYVZfyf81ouFWwlrKADILI_UfUwGncTZ4BLwJHGbreHVVhun5MSIA9Vmn1EEsmxvwwQApGqW0bw

Reminder:

Only the don bosco account on YouTube will be able to access the link

IPO DEMETER PROJECT - COMPROG

IPO

Input: The user needs to create an account to be able to log in to the application. Giving info about the Name, Time, Date, and Concerns.

Process: Filling up the Name, Time, Date, and Concerns. Waiting for the confirmation notification and email successfully sent.

Output: If the appointment is successfully added, the program outputs a success message. If the appointment cannot be added because the array of appointments is complete, the program outputs a message indicating this. The developer can view appointments, names, purposes, dates, and times of all appointments in the array.

DEMETERPROJECTCODE

```
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.Data.OleDb;
using System.Net.Mail;

namespace Brgy_Appointment_WAPP
{
    public partial class ScheduleH : Form
    {
        public ScheduleH()
        {
            InitializeComponent();

            OleDbConnection connection = new
            OleDbConnection("Provider=Microsoft.Jet.OLEDB.4.0;Data Source=DB_Users.mdb");
            OleDbCommand command = new OleDbCommand();
            OleDbDataAdapter da = new OleDbDataAdapter();

            private void button1_Click(object sender, EventArgs e)
            {
                if (textBox1.Text == "" && textBox2.Text == "" && textBox3.Text == "" &&
                textBox4.Text == "")
                {
                    MessageBox.Show("NAME and DATE AND TIME invalid/no Inputs",
                    "Scheduling Failed", MessageBoxButtons.OK, MessageBoxIcon.Error);

                }
                else if (button1.Text == button1.Text)
                {
                    connection.Open();
```

```

        string register = "INSERT INTO tbl_schedule VALUES ('" + textBox1.Text +
        "','" + textBox2.Text + "','" + textBox3.Text + "','" + textBox4.Text + "')";
        command = new OleDbCommand(register, connection);
        command.ExecuteNonQuery();
        connection.Close();

```

```

        textBox1.Text = "";
        textBox2.Text = "";
        textBox3.Text = "";
        textBox4.Text = "";

```

```

        MessageBox.Show("Your Schedule has been Successfully Created",
        "SCHEDULE Success", MessageBoxButtons.OK, MessageBoxIcon.Information);

```

```

        try
        {
            using (MailMessage mail = new MailMessage())
            {
                mail.From = new MailAddress("TestEmail@gmail.com"); //User who will
                be sending their schedule.
                mail.To.Add("amjtubello@donbosco.edu.ph"); //Alter to government
                officials email preference.
                mail.Subject = " Confirmation Appointment ";
                mail.Body = "<h1> Your schedule has been successfully submitted.
                </h1>" + "\n" + "<h2> Wait for reply/confirmation. </h2>";
                mail.IsBodyHtml = true;

                using (SmtpClient smtp = new SmtpClient("smtp.gmail.com", 587))
                {
                    smtp.Credentials = new
                    System.Net.NetworkCredential("amjtubello@donbosco.edu.ph", "Hello31403");
                    smtp.EnableSsl = true;
                    smtp.Send(mail);
                    MessageBox.Show("Mail Sent");
                }
            }
        }
        catch (Exception ex)
        {

```

```

        MessageBox..(ex.Message);
    }

}

private void ListViewForm(object sender, EventArgs e)
{

}

private void button2_Click(object sender, EventArgs e)
{
    if (MessageBox.Show("Confirm Logout", "Logging out...",
        MessageBoxButtons.YesNo, MessageBoxIcon.Question) == DialogResult.Yes)
    {
        new frmLogin().Show();
        this.Hide();
    }
}

private void button3_Click(object sender, EventArgs e)
{

}

}

```

BARANGAY SCHEDULING APPOINTMENT SYSTEM

I.PROJECT DESCRIPTION

The “Barangay Scheduling Appointment System” is a website or an app that could help in making appointments in the Barangay. In this program the user is prompted to select an action from a menu: schedule an appointment, view scheduled appointments, or exit the program. If the user selects "schedule an appointment", they are prompted to enter the name, purpose, date, and time of the appointment. With these, conducting and managing appointments would be easier and more organized.

II. IPO

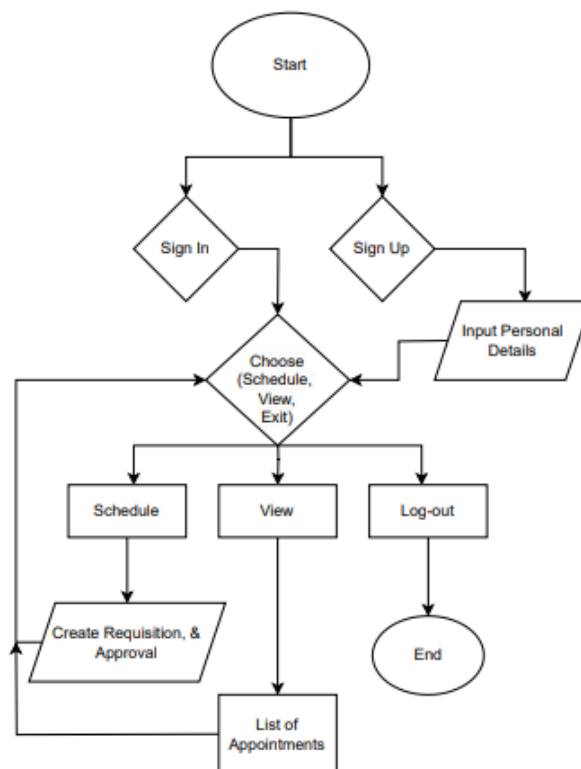
Input: The user is prompted to select an action from a menu: schedule an appointment, view scheduled appointments, or exit the program. If the user selects "schedule an appointment", they are prompted to enter the name, purpose, date, and time of the appointment.

Process: The program stores the inputted appointment details into a struct. The program adds the struct to an array of appointments.

Output: If the appointment is successfully added, the program outputs a success message. If the appointment cannot be added because the array of appointments is complete, the program outputs a message indicating this. If the user chooses to view appointments, the program outputs the name, purpose, date, and time of all appointments in the array.

III. METHODOLOGY

Our project program about the Barangay Scheduling Appointment System will work with the help of Visual Studio Code. To understand how the program will work, provided below is a flow chart about Barangay Scheduling Appointment System.





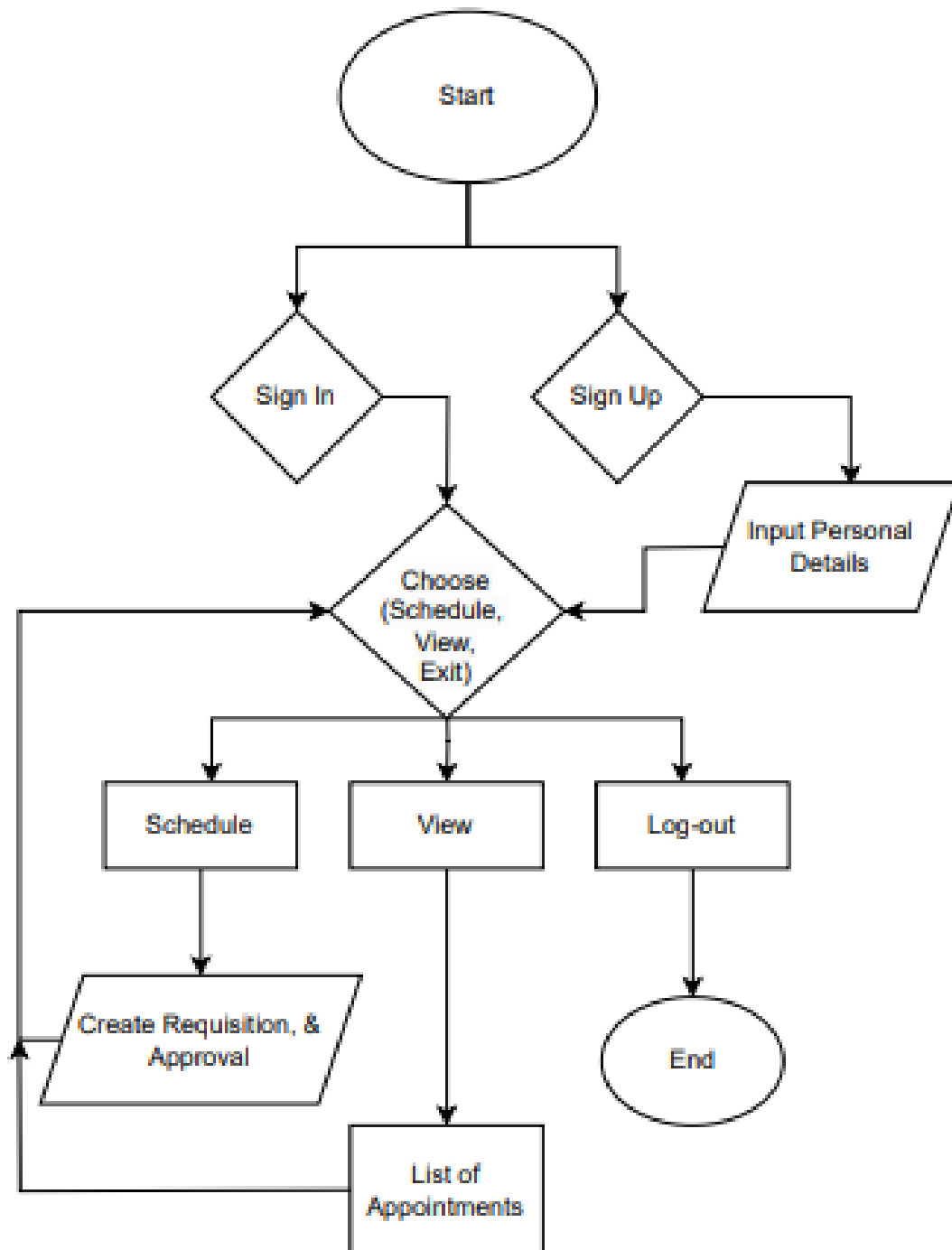
**NEED AN
APPOINTMENT?**

**THEN USE THE
Barangay Appointment
Management System**

SIGN UP !

**SCHEDULE
NOW!**

DEMETER STRUCTURE CHART



DEMETER APP-OUTPUT

X

Get Started

Username:

Password:

Confirm Password

☐ ShowPassword

Register

Clear

Already Have an Account
Back to Login

X

Get Started

Username:

Password:


☐ ShowPassword

Login

Clear


Don't have an account
Create Account

Registration SuccessX

 Your account has been Successfully Created

OK

SCHEDULE SuccessX

 Your Schedule has been Successfully Created


OK

X

Mail Sent

OK

Logging out...X

 Confirm Logout

Yes

No

ListView

Schedule Here:

Name:

Ex. (Juan, Dela Cruz)

Date:

Ex. (04/23/23)

Time:

Ex. (3:00 AM - 3:00 PM)

Concern:


[I want to Schedule the Court for my cousins Birthday party]

Schedule a Date

Logout

Confirmation Appointment

Trash x



amjtubello@donbosco.edu.ph

to me

Your schedule has been successfully submitted.

Wait for reply/confirmation.

Reply

Forward

Conclusion:

Completing our code application is an achievement that signifies the culmination of hard work, dedication, and problem-solving skills. It represents the ability to transform ideas into tangible solutions, bridging the gap between concept and reality. The process of being able to finish our application involves various stages, including planning, designing, coding, testing, and debugging. Each step presents its own challenges, but overcoming them leads to the satisfaction of seeing a project come to fruition.

Finishing the code requires attention to detail and adherence to best practices, ensuring the application's stability, functionality, and usability. It is essential to consider factors such as scalability, performance optimization, security, and user experience, as they greatly impact the final outcome. By adhering to industry standards and employing efficient coding techniques, developers can create applications that stand the test of time and provide value to users.