**0Skills Demonstration 2**

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**Teacher Name: Bernie Farrell**

**Class: 062CS**

**Date: 17/04//2018**

**Subject: Graphical User Interface**

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**Algorithm**

Algorithm for Login for teacher , admin and technician

Enter user name

Check if user name on database,

Read database if name on database

Enter password

if password matches user name continue

else display message – password does not match user

If teacher logged in then

Teacher1.show

If technician logged in then

Technician.show

If Administrator logged in

Adminmanagement.show

**Teacher1:**

Read Database through access

If database is connected show message

Else “Connection un successful”

Enter Fault Room No

Enter Fault Comp No

Enter Description

Date.Now

Clicked insert

if the data is inserted in the table

refresh grid box

show fault in grid

Else

Error(ex.message)

Link label clicked

Changepassword.show

Insert old password which is read from database

Insert new and confirm new password

Which will update password

**Technician**

When technician logged in

Read Database through access

If database is connected show message

Else “Connection un successful”

Input room no to see faults

Resolved button is there to move fault to resolved log

Resolve log table is read through access

If database is successful show message

Else “Unsuccessful”

**Administrator**

When adminmanagement form load

Read database {show room, computers, fault log, resolvelog and teacher tables}

Insert delete and update room and comp no

Insert or delete users

Insert rooms

View Fault Log

View Resolved Log

Report button click

Shows Room with maximum number of room

No of faulty computer.

**View**

Read fault Tables from database

if available show

Else error

Read Resolve Tables from database

if available show

Else error

**RAD (Rapid Application Design )**

1. **Welcome Screen**
2. Administrator
3. Technician
4. Teacher
5. View All Faults
6. **Admin Login**
7. Insert Userrname
8. Insert Password
9. Login
10. **Technician Login**
    1. Insert Userrname
    2. Insert Password
    3. Login
11. **Teacher Login**
    * 1. Insert Userrname
      2. Insert Password
      3. Login
12. **Teacher Screen**
    * + 1. Can see Fault Log
        2. Insert Room No
        3. Insert Computer No
        4. Fault Description
        5. Log Faults
        6. Change Password
13. **Change Password Screen** 
    * + - 1. Insert Old Password
          2. Insert New Password
          3. Confirm New Password
          4. Click Update
14. **Admin Management Screen**

View Fault Log

View Resolve Log

Add delete update rooms

Add computers

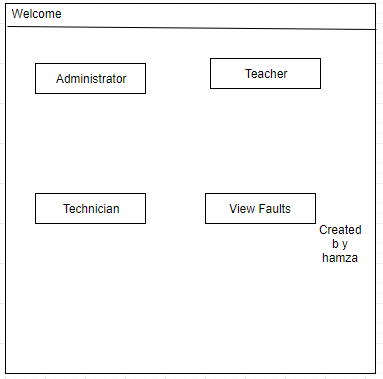
Add or remove users

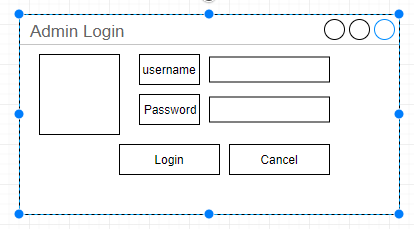
Report button to get room with most faults and fault computer in that room

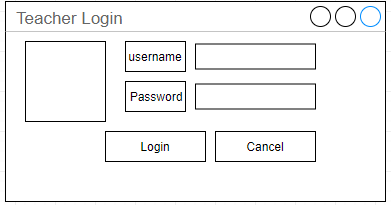
1. **Technician**
2. View Resolve Table
3. View Fault Table
4. Search fault by room
5. Move fault to resolve

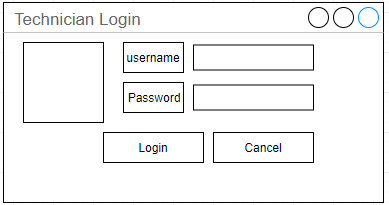
**Database System Prototyping**

Welcome Screen

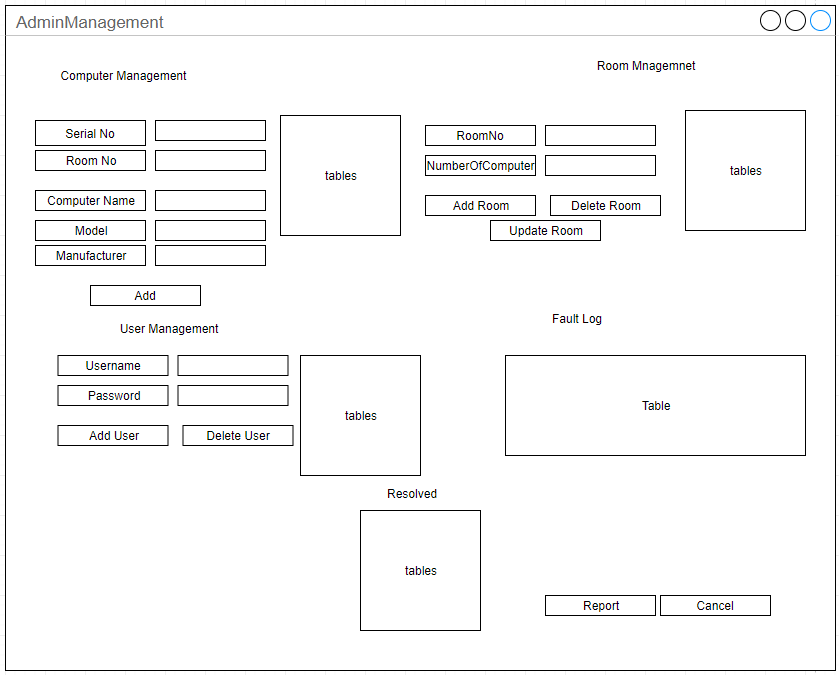


Admin Login Screen

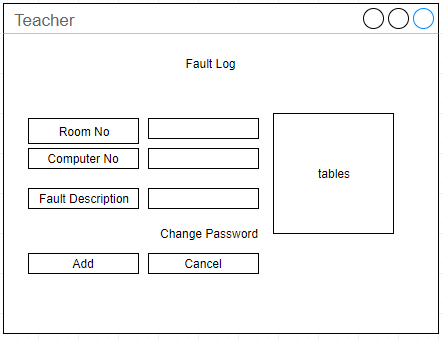
Teacher Login

Technician Login

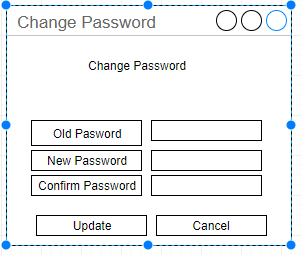
Administrator Screen



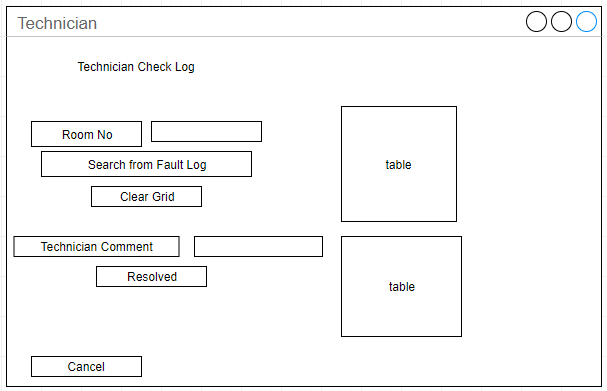
Teacher Screen



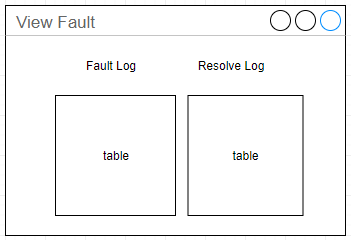
Teacher Screen Change Password



Technician Screen



ViewFaults



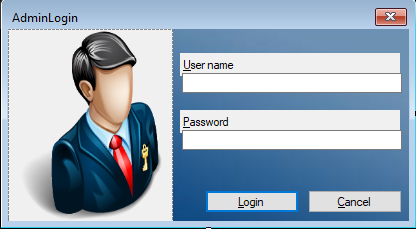
**Screen Form**

**Welcome Screen**

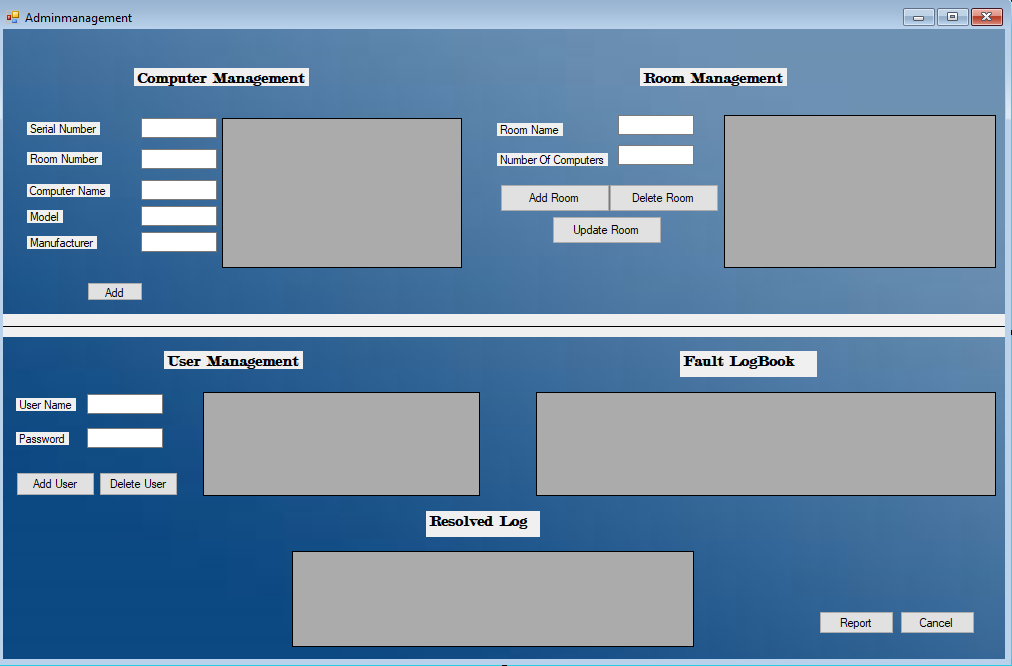
This screen is welcome screen which has button administrator, teacher, technician and view Faults. If Administrator is clicked it will take you to admin login screen , if teacher is clicked it will take you to teacher login screen, if technician clicked it will take you to technician login screen and last is view faults which will take you to view fault screen which is available for all user to see faultlog and resolve log.

**Administrator Login Screen**

Administartor login details are taken from Access admin table his username and password if password or username is wrong display error message

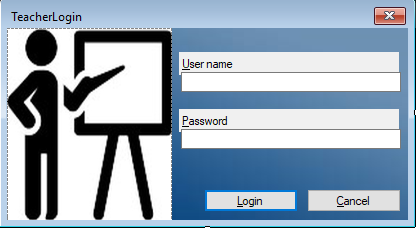


**AdminManagement Screen**

In this screen Administrator can view faultlogged and resolved log plus he can manage users by adding and removing, he can manage room by adding removing and updating, he can manage computers by adding them to the tables. Admin can also generate the report by showing the room with maximum faults and no of faulty computer.

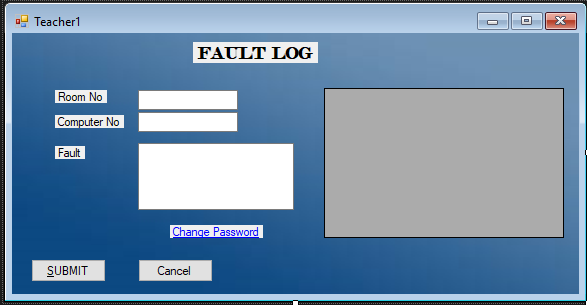
**Teacher Login**

Teacher login details are taken from Access teacher table his username and password if password or username is wrong display error message



**Teacher Screen**

In this screen teacher can log a fault and can display in the grid plus she can change her password with link label shown in the form.



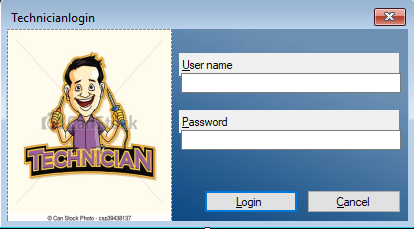
**Change Password Screen**

In this teacher need to input old password then new password and confirm password to update her password.



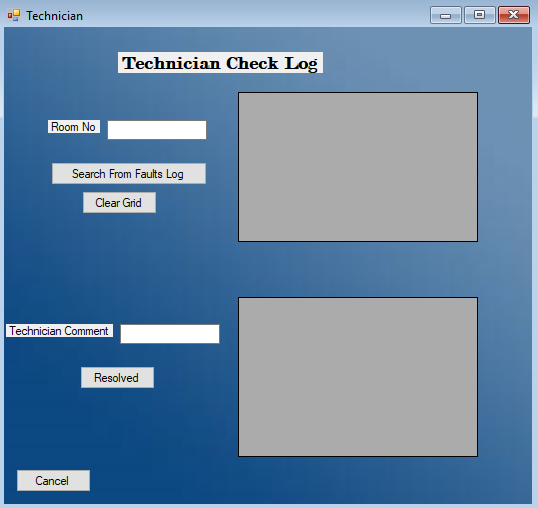
**Technician Login Screen**

Technician login details are taken from Access Technician table his username and password if password or username is wrong display error message

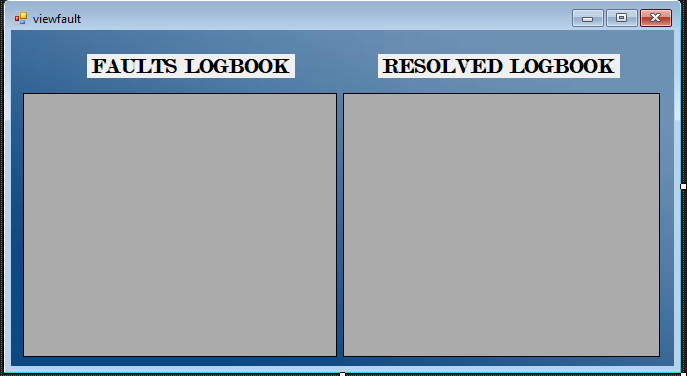


**Technician Screen**

Technician can see all faults he can also search faults by roomno and clear grid. He can move any record to resolve table by clicking resolve button and inputting technician comment.

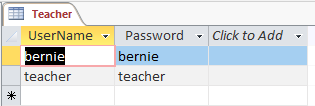
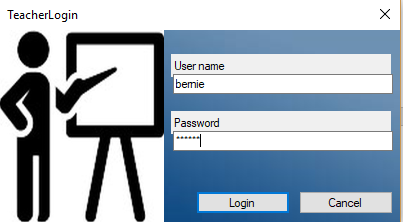


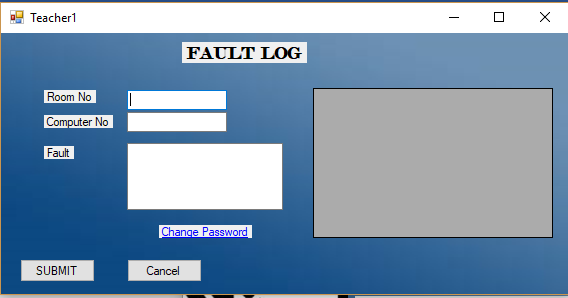
**View Faults**

This screen is for all users who can without signing in can view fault log and resolved log.

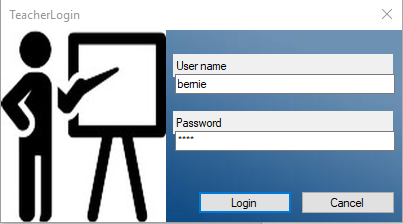
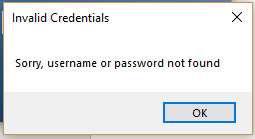
**Testing Database System**

1. User Login Test If username and password match

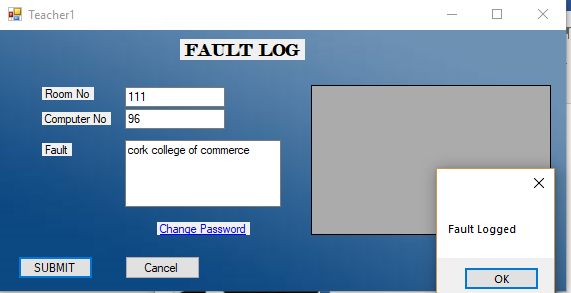
 

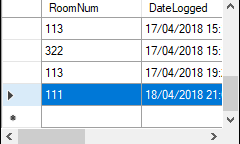


1. Username and password does not match

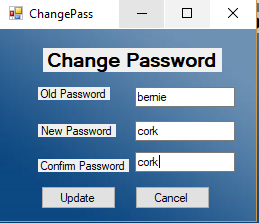


1. Fault Logged inserted in table

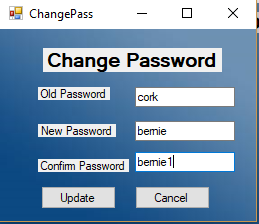



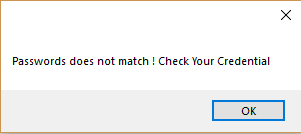
1. Change Password Updated



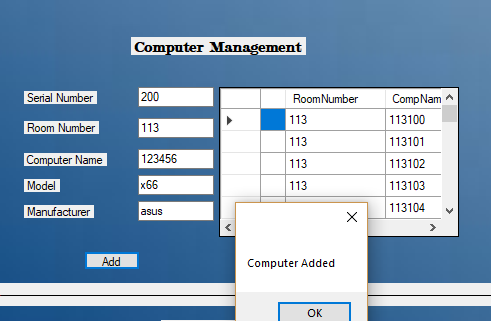


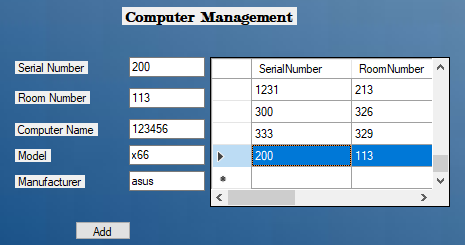
1. If new password and confirm password does not match error message

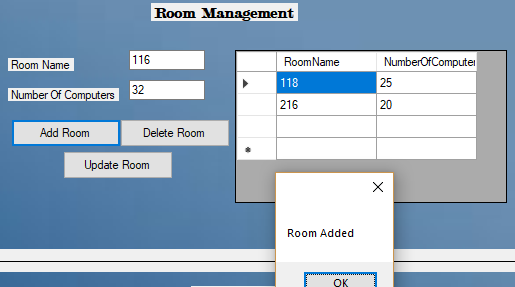


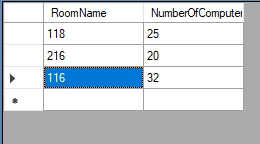


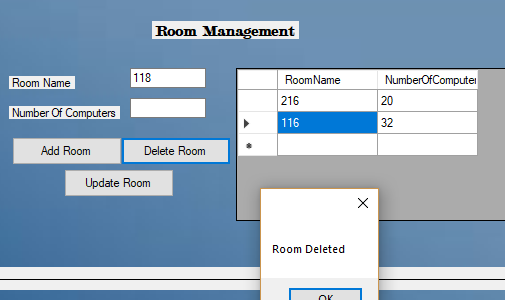
1. Computers Adding To the Table

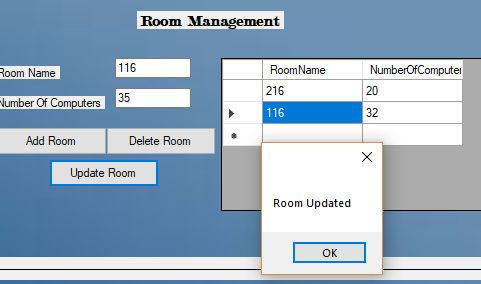




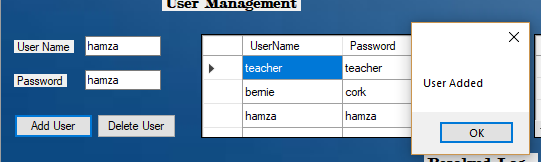
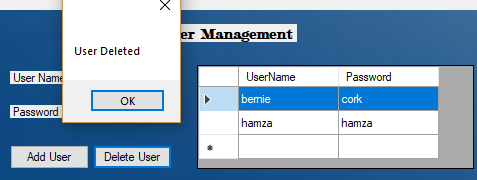
1. Add remove and update Rooms

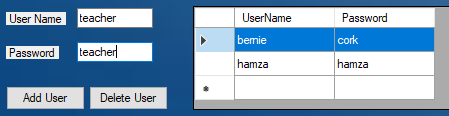




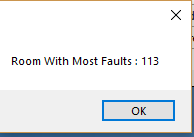
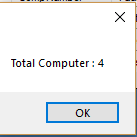


1. Add or Delete User

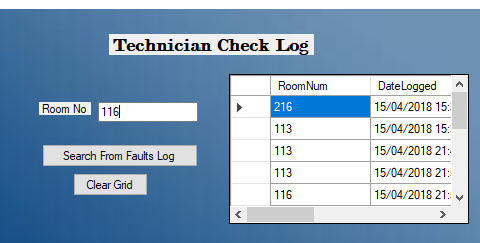


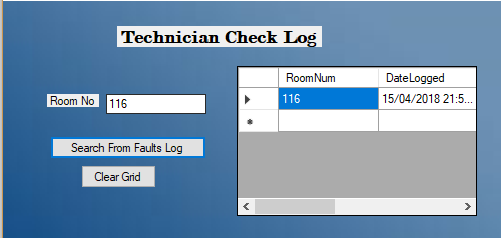


1. See Report

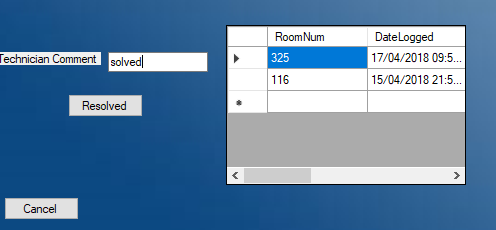
 

1. Technician searching fault by room no

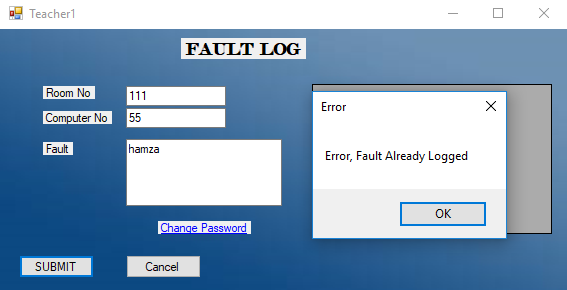




1. Moving Fault to resolve table



1. Same Fault Logged Again Error



**Source Code**

**Welcome Form**

Public Class Welcome

Private Sub btnteacher\_Click(sender As Object, e As EventArgs) Handles btnteacher.Click

TeacherLogin.Show()

End Sub

Private Sub Button2\_Click(sender As Object, e As EventArgs) Handles Button2.Click

AdminLogin.Show()

End Sub

Private Sub Button3\_Click(sender As Object, e As EventArgs) Handles Button3.Click

Technicianlogin.Show()

End Sub

Private Sub btnfault\_Click(sender As Object, e As EventArgs) Handles btnfault.Click

viewfault.Show()

End Sub

Private Sub Welcome\_Load(sender As Object, e As EventArgs) Handles MyBase.Load

End Sub

End Class

**Admin Login**

Imports System.Data.OleDb

Imports System.Data.SqlClient

Public Class AdminLogin

Dim conn As New OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data Source= ..\..\Resources\Computers.accdb;Persist Security Info=True")

Dim Adapter As New OleDbDataAdapter

Dim dslog As DataSet = New DataSet

Private Sub AdminLogin\_Load(sender As Object, e As EventArgs) Handles MyBase.Load

Try

conn.Open()

Catch ex As Exception

MessageBox.Show(ex.Message)

End Try

conn.Close()

End Sub

Private Sub OK\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles OK.Click

conn.Open()

Dim adminName As String

Dim adminPassword As String

adminName = txtadmin.Text

adminPassword = txtadminpass.Text

'the query:

Dim cmd As OleDbCommand = New OleDbCommand("SELECT \* FROM [Admin] WHERE [Username] = '" & txtadmin.Text & "' AND [Password] = '" & txtadminpass.Text & "'", conn)

Dim dr As OleDbDataReader = cmd.ExecuteReader

' the following variable is hold true if user is found, and false if user is not found

Dim Access As Boolean = False

'if found:

While dr.Read

Access = True

End While

'checking the result

If Access = True Then

Adminmanagement.Show()

Me.Close()

Else

MsgBox("Sorry, username or password not found", MsgBoxStyle.OkOnly, "Invalid Credentials")

End If

conn.Close()

End Sub

Private Sub Cancel\_Click(sender As Object, e As EventArgs) Handles Cancel.Click

Me.Hide()

End Sub

End Class

**Teacher Login**

Imports System.Data.OleDb

Imports System.Data.SqlClient

Public Class TeacherLogin

Dim conn As New OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data Source= ..\..\Resources\Computers.accdb;Persist Security Info=True")

Dim Adapter As New OleDbDataAdapter

Dim dslog As DataSet = New DataSet

Private Sub TeacherLogin\_Load(sender As Object, e As EventArgs) Handles MyBase.Load

Try

conn.Open()

Catch ex As Exception

MessageBox.Show(ex.Message)

End Try

End Sub

Private Sub OK\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles OK.Click

Dim teacherName As String

Dim teacherPassword As String

teacherName = txtteacher.Text

teacherPassword = txtteachpass.Text

'the query:

Dim cmd As OleDbCommand = New OleDbCommand("SELECT \* FROM [Teacher] WHERE [Username] = '" & txtteacher.Text & "' AND [Password] = '" & txtteachpass.Text & "'", conn)

Dim dr As OleDbDataReader = cmd.ExecuteReader

' the following variable is hold true if user is found, and false if user is not found

Dim Access As Boolean = False

'if found:

While dr.Read

Access = True

End While

'checking the result

If Access = True Then

Teacher1.Show()

txtteachpass.Clear()

Else

MsgBox("Sorry, username or password not found", MsgBoxStyle.OkOnly, "Invalid Credentials")

End If

End Sub

End Class

**Technician Login**

Imports System.Data.OleDb

Imports System.Data.SqlClient

Public Class Technicianlogin

Dim conn As New OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data Source= ..\..\Resources\Computers.accdb;Persist Security Info=True")

Dim Adapter As New OleDbDataAdapter

Dim dslog As DataSet = New DataSet

Private Sub Technicianlogin\_Load(sender As Object, e As EventArgs) Handles MyBase.Load

Try

conn.Open()

Catch ex As Exception

MessageBox.Show(ex.Message)

End Try

End Sub

Private Sub OK\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles OK.Click

Dim techName As String

Dim techPassword As String

techName = txttech.Text

techPassword = txttechpass.Text

'the query:

Dim cmd As OleDbCommand = New OleDbCommand("SELECT \* FROM [Technician] WHERE [Username] = '" & txttech.Text & "' AND [Password] = '" & txttechpass.Text & "'", conn)

Dim dr As OleDbDataReader = cmd.ExecuteReader

' the following variable is hold true if user is found, and false if user is not found

Dim Access As Boolean = False

'Founding Data from table

While dr.Read

Access = True

End While

'checking the result of the query

If Access = True Then

Technician.Show()

txttechpass.Clear()

Else

MsgBox("Sorry, username or password not found", MsgBoxStyle.OkOnly, "Invalid Credentials")

End If

End Sub

Private Sub Cancel\_Click(sender As Object, e As EventArgs) Handles Cancel.Click

Me.Hide()

End Sub

End Class

**Teacher Screen 1**

Imports System.Data.OleDb

Imports System.Data.SqlClient

Public Class Teacher1

Dim conn As New OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data Source= ..\..\Resources\Computers.accdb;Persist Security Info=True")

Dim compAdapter As New OleDbDataAdapter

Dim dscomp As DataSet = New DataSet

Dim RoomNum, CompNumber As Int64

Dim DateLogged As Date

Dim FaultDesc, UsersName As String

Private Sub Teacher1\_Load(sender As Object, e As EventArgs) Handles MyBase.Load

Try

conn.Open()

Dim sqlquery As String = "Select \* From [FaultInfo]"

compAdapter.SelectCommand = New OleDbCommand(sqlquery, conn)

compAdapter.Fill(dscomp, "Computers")

Catch ex As Exception

MessageBox.Show(ex.Message)

End Try

End Sub

Private Sub updateDBTable()

Dim SQLInsert As String

SQLInsert = "Insert into [FaultInfo] Values ('" & RoomNum & "','" & DateLogged & "','" & CompNumber & "','" & FaultDesc & "','" & UsersName & "')"

Dim insertCommand As New OleDbCommand(SQLInsert, conn)

insertCommand.ExecuteNonQuery()

MessageBox.Show("Fault Logged")

End Sub

Private Sub btncancel\_Click(sender As Object, e As EventArgs) Handles btncancel.Click

Me.Hide()

End Sub

Private Sub btnsubmit\_Click(sender As Object, e As EventArgs) Handles btnsubmit.Click

Dim cmd As OleDbCommand = New OleDbCommand("SELECT \* FROM [FaultInfo] WHERE [CompNumber] = " & txtcompno.Text & "", conn)

Dim dr As OleDbDataReader = cmd.ExecuteReader

Dim compFound As Boolean = False

While dr.Read

compFound = True

End While

If compFound = True Then

MsgBox("Error, Fault Already Logged", MsgBoxStyle.OkOnly, "Error")

Else

RoomNum = txtroomno.Text

DateLogged = Date.Now()

CompNumber = txtcompno.Text

FaultDesc = txtfault.Text

UsersName = TeacherLogin.txtteacher.Text

Dim comp As DataRow

comp = dscomp.Tables("Computers").NewRow()

comp.Item("RoomNum") = RoomNum

comp.Item("DateLogged") = DateLogged

comp.Item("CompNumber") = CompNumber

comp.Item("FaultDesc") = FaultDesc

comp.Item("UsersName") = UsersName

dscomp.Tables("Computers").Rows.Add(comp)

If dscomp.Tables.Count = 0 Then Exit Sub

updateDBTable()

faultgrid.DataSource = dscomp.Tables("Computers")

txtcompno.Clear()

txtfault.Clear()

txtroomno.Clear()

End If

End Sub

Private Sub LinkLabel1\_LinkClicked(sender As Object, e As LinkLabelLinkClickedEventArgs) Handles LinkLabel1.LinkClicked

ChangePass.Show()

End Sub

End Class

**Change Password**

Imports System.Data.OleDb

Imports System.Data.SqlClient

Public Class ChangePass

Dim conn As New OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data Source= ..\..\Resources\Computers.accdb;Persist Security Info=True")

Dim Adapter As New OleDbDataAdapter

Dim dscomp As DataSet = New DataSet

Private Sub ChangePass\_Load(sender As Object, e As EventArgs) Handles MyBase.Load

Try

conn.Open()

Catch ex As Exception

MessageBox.Show(ex.Message)

End Try

End Sub

Private Sub btnupdate\_Click(sender As Object, e As EventArgs) Handles btnupdate.Click

If txtnew.Text <> txtconfirm.Text Then

MessageBox.Show("Passwords does not match ! Check Your Credential")

ElseIf txtNew.Text = txtConfirm.Text Then

Dim update = New OleDbCommand("UPDATE [Teacher] SET [Password] = '" & txtconfirm.Text & "' where [Password] = '" & txtold.Text & "'", conn)

update.ExecuteNonQuery()

MessageBox.Show("Password is updated ")

conn.Close()

End If

txtconfirm.Clear()

txtnew.Clear()

txtold.Clear()

End Sub

Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles Button1.Click

Me.Hide()

End Sub

End Class

**Admin Management**

Imports System.Data.OleDb

Imports System.Data.SqlClient

Public Class Adminmanagement

Dim conn As New OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data Source= ..\..\Resources\Computers.accdb;Persist Security Info=True")

Dim compAdapter As New OleDbDataAdapter

Dim dscomp As DataSet = New DataSet

Dim SerialNum, RoomNumber, CompNumber As Int64

Dim Model, Manufacturer As String

Dim RoomName, NumberOfComputers As String

Dim username, password As String

Private Sub Adminmanagement\_Load(sender As Object, e As EventArgs) Handles MyBase.Load

Try

conn.Open()

Dim query3 As String = "Select \* From [Resolved]"

compAdapter.SelectCommand = New OleDbCommand(query3, conn)

compAdapter.Fill(dscomp, "allresolved")

Resolved.DataSource = dscomp.Tables("allresolved")

Dim query2 As String = "Select \* From [FaultInfo]"

compAdapter.SelectCommand = New OleDbCommand(query2, conn)

compAdapter.Fill(dscomp, "allFaultLog")

faultlog.DataSource = dscomp.Tables("allfaultlog")

Dim sqlquery As String = "Select \* From [ComputerInfo]"

compAdapter.SelectCommand = New OleDbCommand(sqlquery, conn)

compAdapter.Fill(dscomp, "allCompInfo")

computergrid.DataSource = dscomp.Tables("allCompInfo")

Dim query As String = "Select \* From [Rooms]"

compAdapter.SelectCommand = New OleDbCommand(query, conn)

compAdapter.Fill(dscomp, "allRooms")

display.DataSource = dscomp.Tables("allRooms")

Dim query1 As String = "Select \* From [Teacher]"

compAdapter.SelectCommand = New OleDbCommand(query1, conn)

compAdapter.Fill(dscomp, "allTeacher")

usergrid.DataSource = dscomp.Tables("allTeacher")

Catch ex As Exception

MessageBox.Show(ex.Message)

'conn.Close()

End Try

End Sub

Private Sub btnDeleteRoom\_Click(sender As Object, e As EventArgs) Handles btnDeleteRoom.Click

' Delete from the datasource.

dscomp.Tables("allRooms").Rows(0).Delete()

'Delete from the underlying database table.

Dim deleteCommand As String

Dim toDelete As String = txtRoomName.Text

deleteCommand = "Delete"

deleteCommand = "Delete From [Rooms] where RoomName = '" & toDelete & "'"

Dim SQLDelete As New OleDbCommand(deleteCommand, conn)

SQLDelete.ExecuteNonQuery()

MessageBox.Show("Room Deleted")

display.Refresh()

' conn.Close()

End Sub

Private Sub btnUpdateRoom\_Click(sender As Object, e As EventArgs) Handles btnUpdateRoom.Click

'Updating Room

Dim update As String = ("UPDATE [Rooms] SET [NumberOfComputers] = '" & NumberOfComputers & "' where [RoomName] = '" & RoomName & "'")

Dim updateCommand As New OleDbCommand(update, conn)

updateCommand.ExecuteNonQuery()

RoomName = txtRoomName.Text

NumberOfComputers = txtNumberOfComputers.Text

MessageBox.Show("Room Updated")

display.Refresh()

'conn.Close()

End Sub

Private Sub btnAddRoom\_Click(sender As Object, e As EventArgs) Handles btnAddRoom.Click

'Adding Room To Room Table

Dim SQLInsert As String

SQLInsert = "Insert into [Rooms] Values ('" & RoomName & "','" & NumberOfComputers & "')"

Dim insertCommand As New OleDbCommand(SQLInsert, conn)

insertCommand.ExecuteNonQuery()

MessageBox.Show("Room Added")

RoomName = txtRoomName.Text

RoomName = txtRoomName.Text

NumberOfComputers = txtNumberOfComputers.Text

Dim userRow As DataRow

userRow = dscomp.Tables("allRooms").NewRow()

userRow.Item("RoomName") = RoomName

userRow.Item("NumberOfComputers") = NumberOfComputers

dscomp.Tables("allRooms").Rows.Add(userRow)

display.Refresh()

'conn.Close()

End Sub

Private Sub btncancel\_Click(sender As Object, e As EventArgs) Handles btncancel.Click

Me.Hide()

End Sub

Private Sub btnreport\_Click(sender As Object, e As EventArgs) Handles btnreport.Click

MessageBox.Show("Room With Most Faults : 113")

MessageBox.Show("Total Computer : 4")

End Sub

Private Sub updateDBTable()

'updating Computer Tables

Dim SQLInsert As String

SQLInsert = "Insert into [ComputerInfo] Values ('" & SerialNum & "','" & RoomNumber & "','" & CompNumber & "','" & Model & "','" & Manufacturer & "')"

Dim insertCommand As New OleDbCommand(SQLInsert, conn)

insertCommand.ExecuteNonQuery()

MessageBox.Show("Computer Added")

'conn.Close()

End Sub

Private Sub updateTeacherTable()

'updating teacher tables

Dim SQLInsert As String

SQLInsert = "Insert into [Teacher] Values ('" & username & "','" & password & "')"

Dim insertCommand As New OleDbCommand(SQLInsert, conn)

insertCommand.ExecuteNonQuery()

MessageBox.Show("User Added")

End Sub

'Adding Computer To Computers Table

Private Sub btnAdd\_Click(sender As Object, e As EventArgs) Handles btnAdd.Click

SerialNum = txtSerial.Text

RoomNumber = txtRoomNum.Text

CompNumber = txtComp.Text

Model = txtModel.Text

Manufacturer = txtManuf.Text

Dim compRow As DataRow

compRow = dscomp.Tables("allCompInfo").NewRow()

compRow.Item("SerialNumber") = SerialNum

compRow.Item("RoomNumber") = RoomNumber

compRow.Item("CompName") = CompNumber

compRow.Item("Model") = Model

compRow.Item("Manufacturer") = Manufacturer

dscomp.Tables("allCompInfo").Rows.Add(compRow)

If dscomp.Tables.Count = 0 Then Exit Sub

updateDBTable()

' conn.Close()

End Sub

'Adding User From Teachers Table

Private Sub btnAddUser\_Click(sender As Object, e As EventArgs) Handles btnAddUser.Click

username = txtUser.Text

'the query:

Dim cmd As OleDbCommand = New OleDbCommand("SELECT \* FROM [Teacher] WHERE [Username] = '" & txtUser.Text & "'", conn)

Dim dr As OleDbDataReader = cmd.ExecuteReader

' the following variable is hold true if user is found, and false if user is not found

Dim userFound As Boolean = False

'if found:

While dr.Read

userFound = True

End While

'checking the result

If userFound = True Then

MsgBox("Username already exists", MsgBoxStyle.OkOnly, "Error")

Else

username = txtUser.Text

password = TxtPass.Text

Dim userRow As DataRow

userRow = dscomp.Tables("allTeacher").NewRow()

userRow.Item("Username") = username

userRow.Item("Password") = password

dscomp.Tables("allTeacher").Rows.Add(userRow)

updateTeacherTable()

usergrid.Refresh()

End If

End Sub

'Deleting User From Teachers Table

Private Sub btnDeleteUser\_Click(sender As Object, e As EventArgs) Handles btnDeleteUser.Click

' Delete from the datasource.

dscomp.Tables("allTeacher").Rows(0).Delete()

'Delete from the underlying database table.

Dim deleteCommand As String

Dim toDelete As String = txtUser.Text

deleteCommand = "Delete"

deleteCommand = "Delete From [Teacher] where Username = '" & toDelete & "'"

Dim SQLDelete As New OleDbCommand(deleteCommand, conn)

SQLDelete.ExecuteNonQuery()

MessageBox.Show("User Deleted")

usergrid.Refresh()

End Sub

End Class

**Technician**

Imports System.Data.OleDb

Imports System.Data.SqlClient

Public Class Technician

Dim conn As New OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data Source= ..\..\Resources\Computers.accdb;Persist Security Info=True")

Dim compAdapter As New OleDbDataAdapter

Dim dscomp As DataSet = New DataSet

Private Sub Technician\_Load(sender As Object, e As EventArgs) Handles MyBase.Load

Try

conn.Open()

Dim sqlquery As String = "(SELECT \* FROM [FaultInfo])"

compAdapter.SelectCommand = New OleDbCommand(sqlquery, conn)

compAdapter.Fill(dscomp, "allFaults")

displayfaultgrid.DataSource = dscomp.Tables("allFaults")

Dim sqlquery2 As String = "Select \* From [Resolved]"

compAdapter.SelectCommand = New OleDbCommand(sqlquery2, conn)

compAdapter.Fill(dscomp, "allresolved")

resolved.DataSource = dscomp.Tables("allresolved")

Catch ex As Exception

MessageBox.Show(ex.Message)

End Try

End Sub

Private Sub searchfault\_Click(sender As Object, e As EventArgs) Handles searchfault.Click

displayfaultgrid.DataSource.clear()

Dim RoomNo As Integer = txtroom.Text

Try

Dim sqlquery As String = "(SELECT \* FROM [FaultInfo] WHERE [RoomNum] = " & RoomNo & " )"

compAdapter.SelectCommand = New OleDbCommand(sqlquery, conn)

compAdapter.Fill(dscomp, "allFaults")

displayfaultgrid.DataSource = dscomp.Tables("allFaults")

Catch ex As Exception

MessageBox.Show(ex.Message)

End Try

displayfaultgrid.Refresh()

conn.Close()

End Sub

Private Sub btnreport\_Click(sender As Object, e As EventArgs)

End Sub

Private Sub btnclear\_Click(sender As Object, e As EventArgs) Handles btnclear.Click

displayfaultgrid.DataSource.Clear()

End Sub

Private Sub updateDBTable()

Dim SQLInsert As String

SQLInsert = "Insert into [Resolved] Values (RoomNum,DateLogged,CompNumber,FaultDesc,UsersName,TechnicianComment')"

Dim insertCommand As New OleDbCommand(SQLInsert, conn)

insertCommand.ExecuteNonQuery()

MessageBox.Show("Resolved")

End Sub

Private Sub btnresolve\_Click(sender As Object, e As EventArgs) Handles btnresolve.Click

Dim comment As String = txtcomment.Text

Try

Dim query As String = "INSERT INTO Resolved (RoomNum,DateLogged,CompNumber,FaultDesc,UsersName,TechnicianComment) VALUES ( RoomNum,DateLogged,CompNumber,FaultDesc,UsersName, from FaultInfo)"

compAdapter.InsertCommand = New OleDbCommand(query, conn)

compAdapter.Fill(dscomp, "allResolved")

resolved.DataSource = dscomp.Tables("allResolved")

If Me.displayfaultgrid.Rows.Count > 0 Then

If Me.displayfaultgrid.SelectedRows.Count > 0 Then

Dim intStdID As Integer = Me.displayfaultgrid.SelectedRows(0).Cells("RoomNum").Value

'open connection

If Not conn.State = ConnectionState.Open Then

conn.Open()

End If

'delete data

Dim cmd As New SqlCommand

cmd.CommandText = "DELETE FROM FaultInfo WHERE RoomNo=" & intStdID

Dim res As DialogResult

res = MsgBox("Are you sure you want to DELETE the selected Row?", MessageBoxButtons.YesNo)

If res = Windows.Forms.DialogResult.Yes Then

cmd.ExecuteNonQuery()

Else : Exit Sub

End If

End If

End If

displayfaultgrid.DataSource.refresh

resolved.DataSource.refresh

Catch ex As Exception

End Try

End Sub

Private Sub btncancel\_Click(sender As Object, e As EventArgs) Handles btncancel.Click

Me.Hide()

End Sub

End Class

**Viewfaults Screen**

Imports System.Data.OleDb

Imports System.Data.SqlClient

Public Class viewfault

Dim conn As New OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data Source= ..\..\Resources\Computers.accdb;Persist Security Info=True")

Dim compAdapter As New OleDbDataAdapter

Dim dscomp As DataSet = New DataSet

Private Sub viewfault\_Load(sender As Object, e As EventArgs) Handles MyBase.Load

Try

conn.Open()

Dim query3 As String = "Select \* From [Resolved]"

compAdapter.SelectCommand = New OleDbCommand(query3, conn)

compAdapter.Fill(dscomp, "allresolved")

resolve.DataSource = dscomp.Tables("allresolved")

Dim query2 As String = "Select \* From [FaultInfo]"

compAdapter.SelectCommand = New OleDbCommand(query2, conn)

compAdapter.Fill(dscomp, "allFaultLog")

fault.DataSource = dscomp.Tables("allfaultlog")

Catch ex As Exception

MessageBox.Show(ex.Message)

End Try

End Sub

End Class

# Deployment Plan

The Deployment Plan section provides detailed information on the deployment of the software application/system. Included in the Deployment Plan are schedule and resource information, the engagement and promotion strategy, deployment methods, technology infrastructure and support considerations, deployment testing and training requirement, and any known conflicts or issues with the software.

|  |  |  |
| --- | --- | --- |
| Deployment Schedule and Resources | | |
| **Target Deployment and Sequence** | | Scheduled Release Dates | Resource Requirements |
| Deployment is done on college server so it can be access by specific people from anywhere in college. | | 12th of April 2018 | Roy O'Sullivan |
| Engagement and Promotion Strategy | | | |
| Description Of the Software | | | |
| This software is to run a college database where admin , technician and teacher can login to their account and other people can see all faults and resolved issues.  If teacher Login and she figure out there is a problem with a PC in particular room she can immediately log a fault by logging into her account. That will take that fault into Fault Log table. She can also change password by inserting old password and the new and confirming new password which will update password in the access table.  Once Fault is logged now technician logged in and saw fault in the fault log so he can fix that problem and attach a comment to it saying resolved and moving that fault from fault log to Resolved logged  When Administrator Login he can view rooms, computer, fault, resolve and users table where he can add, remove and update rooms. He/she can also add users and remove users, he can add computers and he can also generate a report which displays room with more fault and number of computer faulty in certain room.  Without Logging in everyone can view fault log and resolved log to see which room has faults and which faults are resolved. | | | |