

|  |
| --- |
| GeoTema  2019 |
|  |
| February 19  Kristian Vincentzen  Datatekniker-Elev Praktikcenter Ballerup |

Contents

[Indledning. 3](#_Toc1459489)

[Teori 4](#_Toc1459490)

[Vis data: 5](#_Toc1459491)

[Backup admin og windows admin: 5](#_Toc1459492)

[Normalisering 6](#_Toc1459493)

[UML 6](#_Toc1459494)

[E-R Diagram 6](#_Toc1459495)

[Use Case 8](#_Toc1459496)

[Mock-ups 9](#_Toc1459497)

[FlowChart 10](#_Toc1459498)

[Konklusion 11](#_Toc1459499)

[Bilag 11](#_Toc1459500)

[Database Oprettelse. 11](#_Toc1459501)

[Data til Tabelen 12](#_Toc1459502)

[Table.cs til at hente data fra databasen og vise det rigtigt 13](#_Toc1459503)

[Helper.cs til Connectionstring, som den hiver fra app.config 14](#_Toc1459504)

[App.config 15](#_Toc1459505)

[Program.cs 16](#_Toc1459506)

[SqlCommands.cs 17](#_Toc1459507)

[SignIn.Designer.cs 20](#_Toc1459508)

[SignIn.Cs 24](#_Toc1459509)

[SignUp.Designer.cs 26](#_Toc1459510)

[SignUp.cs 31](#_Toc1459511)

[Info\_Page.Designer.Cs 34](#_Toc1459512)

[Info\_Page.cs 38](#_Toc1459513)

# Indledning.

Jeg har fået til opgave at lave en database, over fødselsraten på alle lande i verden og rangering af de forskellige lande fra de med højest til de med lavest. Der skal også laves et normaliserings system for de lande der nu ligger på flere kontinenter. Ud over det skal jeg lave et program der kan gøre det muligt at tilgå dataen på en præsentabel måde med en tabel og en graf. Ud over det har jeg sat mig for at også skulle lave et bruger system der kan give rettigeheder for hvordan man kan tilgå dataen, det ville være mere relevant vis der skulle blive udvidet på programmet, for som dataen er lige nu er alt frit tilgængeligt og offentligt.

# Teori

For at oprette en data skal der bruges syntaksen:

*CREATE DATABASE [DATABAS ENAME]*

*GO*

For at oprette tabeler og koloner skal der bruges syntaksen:

*CREATE TABLE [TABLE NAME] (*

*COLUMN1 DATATYPE*

*COLUMN2 DATATYPE*

*CONSTRAINTS*

*)*

For at indsætte værdier I en table bruges følgende documentation:

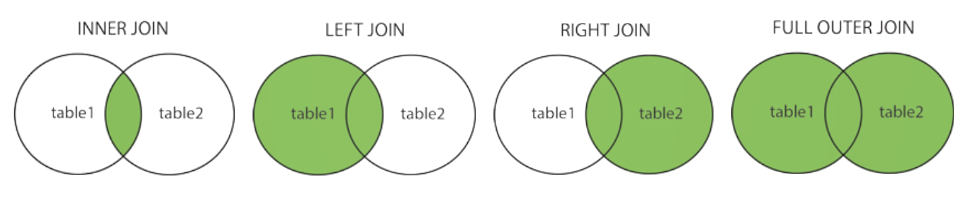
*INSERT INTO table1 (column1, column2)*

*Values (column1 data, column2 data)*

*(column1 data, column2 data)…..*

En PRIMARY KEY en er kolonne i en tabel som SKAL indeholde uniqe værdier. Man laver den for at kunne differentiere imellem dataen.

En FOREIGN KEY er en kolone der er identisk med en kolonne fra en anden tabel, og man refere hen til det andet tables kolonne for at spare på bits.



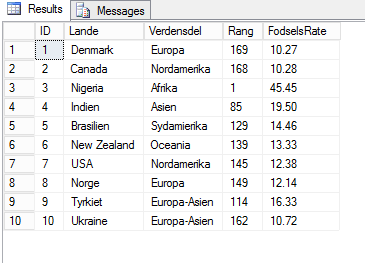
Inner join – er når man laver et join imellem 2 tabeler der kun skal vise den data som de bliver joinet på.

Left join – er et join der tager alt data fra den ene tabel med og kun viser data fra den anden tabel på det de bliver joined på.

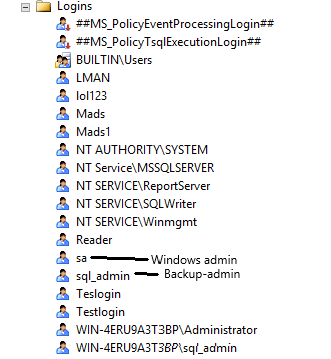
Right join – er det samme som left join, bare den anden vej rundt.

Full outer join – er en join der tager alt data med fra begge tabeler.

## Vis data:



## Backup admin og windows admin:



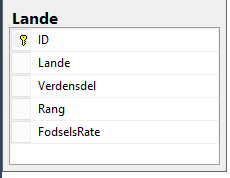
## Normalisering

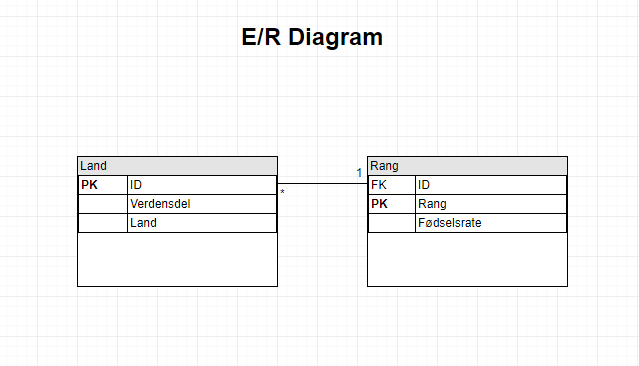
For at holde dataen så sandfærdig som muligt har jeg lavet “kombi” kontinenter for de lande der er beliggende for mere end et continent eks. Tyrkiets kontinent ligger sig i: Europa-Asien.

# UML

E-R Diagramer:

den først er sql’s egen genereret og den anden er egen tegnet, for at simplifisere databasen gik jeg væk fra at ha’ 2 tables



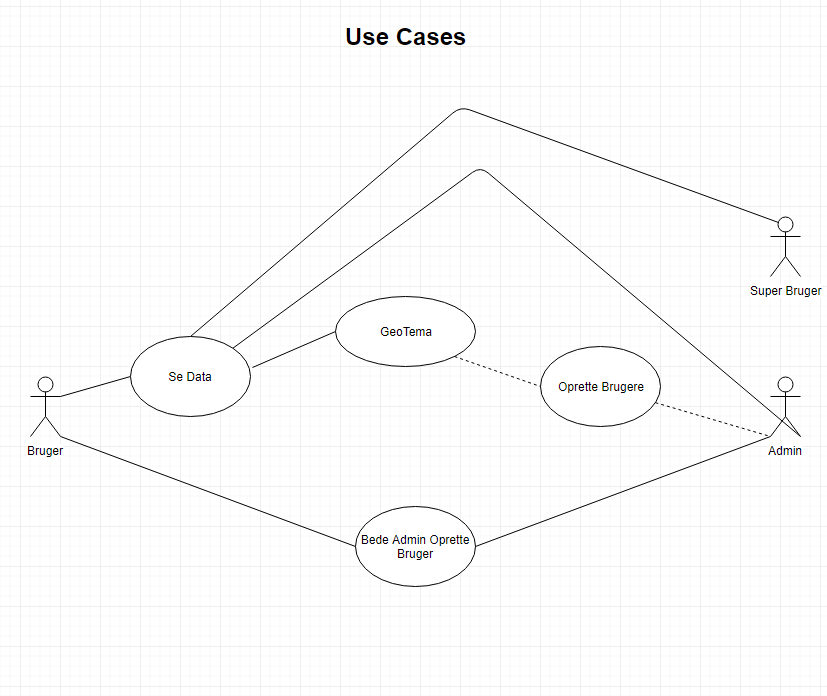


Use Cases:

Her er use cases over de forskellige handlinger som aktører kan lave med database

I det her tilfælde kan en bruger se data og bede admin om at blive oprettet.

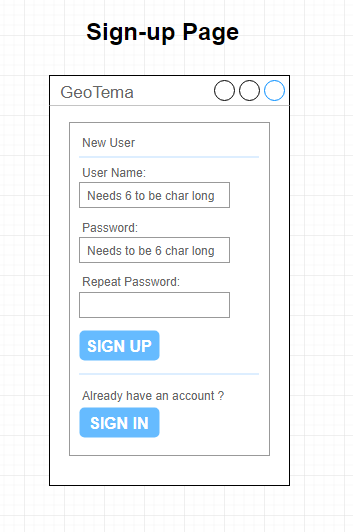
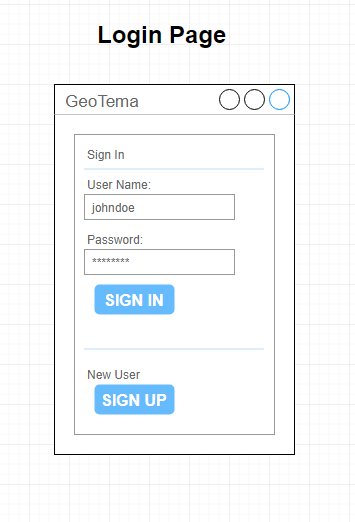
Ud over det kan en admin oprette brugere og en superbruger kan kun se data. I programmets nuværende for vil en super bruger ikke ha nogen støre funktionalitet.

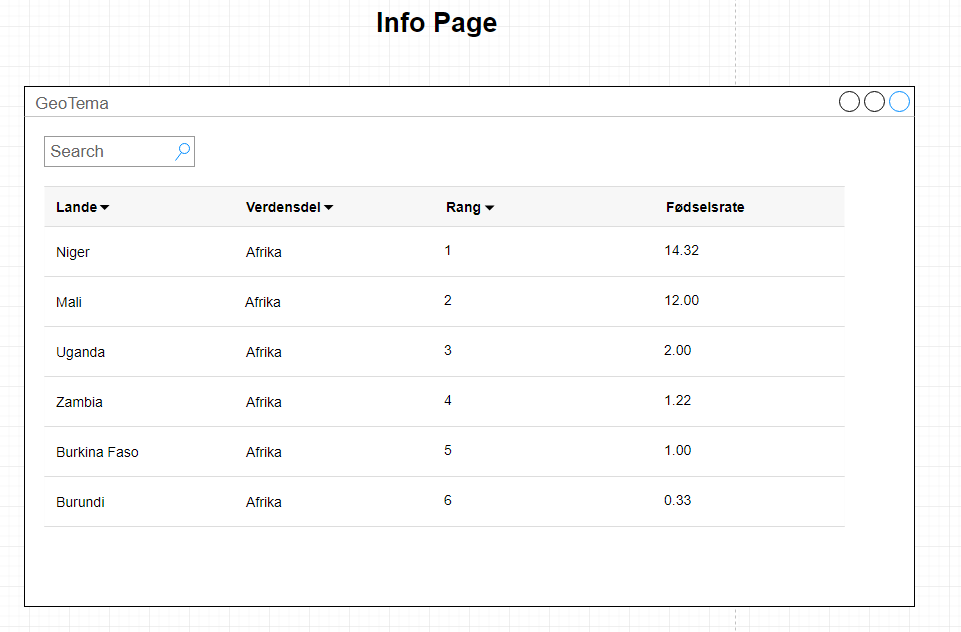


Mock-ups:

Signup page er til at oprette brugere, de skal opfylde windows sikkerheds krav og password skal tastes 2 gange og være identiske med hinanden.

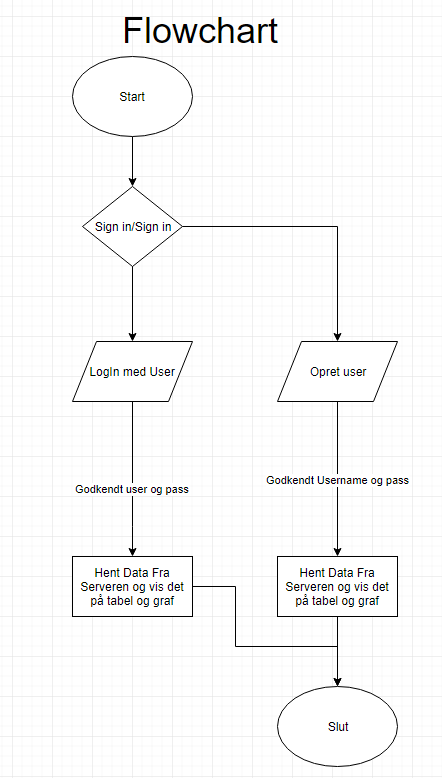
Login Page er til at logge ind med brugere der allerede er lavet og godkendt. Men kan ellers bevæge sig imellem de to pages med henholdsvis med sign up knappen og sign in knappen



Her er info pagen til at se dataen i en tabel, det der ikke er med er en graf.

FlowChart:

Her er et simpelt flowchart over flowet igennem programmet.



# Brugervejledning

# C:\Users\KRVI\Desktop\GeoTema\Sign Up.PNGC:\Users\KRVI\Desktop\GeoTema\Log in.PNG

# C:\Users\KRVI\Desktop\GeoTema\Info Page.PNG

# Konklusion

Geotema’s database er sat op med rangering, og normalisering af kontinenter, godnok er rangering statisk og ikke udregnet, Da dataen jeg bruger ikke er globalt men bare 10 eksempel lande. Ud over det er der et bruger system hvor der kan oprettes brugere og logge brugere ind. Og dataen er tilgængelig på en tabel hvor der kan søges efter specifike lande. Ud over det er der en graf med alle fødselsrater på de lande der er i databasen. Opgaven som helhed har gjort mig mere øvet i c#, Connectionstring til en sql database, givet mig en mild introduktion til dapper. Og givet mere øvelse til windowsforms selvom begejstringen for det led er lav.

# Bilag

## Database Oprettelse.

USE [master]

GO

CREATE DATABASE [GeoTema] --Her opretter jeg databasen

GO

USE [GeoTema] --Her fortæller jeg databasen

GO

CREATE TABLE [dbo].[Lande]( --Her laver jeg tablet for dataen

[ID] [int] NOT NULL, --Unique kolonne som bliver brugt til primary key

[Lande] [varchar](30) NULL,

[Verdensdel] [varchar](15) NULL,

[Rang] [varchar](30) NULL,

[FodselsRate] [varchar](10) NULL,

PRIMARY KEY (ID) --Her gør jeg ID til primary key

)

## Data til Tabelen

Insert into Lande (ID, Lande, Verdensdel,Rang,FodselsRate)

VALUES (1,'Denmark', 'Europa','169','10.27' ),

(2,'Canada','Nordamerika','168','10.28'),

(3,'Nigeria','Afrika','1','45.45'),

(4,'Indien','Asien','85','19.50'),

(5,'Brasilien','Sydamierika','129','14.46'),

(6,'New Zealand','Oceania','139','13.33'),

(7,'USA','Nordamerika','145','12.38'),

(8,'Norge','Europa','149','12.14'),

(9,'Tyrkiet','Europa-Asien','114','16.33'),

(10,'Ukraine','Europa-Asien','162','10.72')

## Table.cs til at hente data fra databasen og vise det rigtigt

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace GeotTema

{

class Table

{

public int ID { get; set; }

public string Lande { get; set; }

public string Verdensdel { get; set; }

public string Rang { get; set; }

public string Fodselsrate { get; set; }

}

}

## Helper.cs til Connectionstring, som den hiver fra app.config

using System;

using System.Collections.Generic;

using System.Configuration;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace GeotTema

{

class Helper

{

public static string CnnVal(string name)

{

return ConfigurationManager.ConnectionStrings[name].ConnectionString;

}

}

}

## App.config

<?xml version="1.0" encoding="utf-8" ?>

<configuration>

<connectionStrings>

<add name="GeoTemaDB" connectionString="Data Source=10.0.5.103;Initial Catalog=GeoTema;User ID=sql\_admin;password=Passw0rd" providerName="System.Data.SqlClient"/>

</connectionStrings>

<startup>

<supportedRuntime version="v4.0" sku=".NETFramework,Version=v4.6.1" />

</startup>

**</configuration>**

## Program.cs

using System;

using System.Collections.Generic;

using System.Linq;

using System.Threading.Tasks;

using System.Windows.Forms;

namespace GeotTema

{

static class Program

{

/// <summary>

/// The main entry point for the application.

/// </summary>

[STAThread]

static void Main()

{

Application.EnableVisualStyles();

Application.SetCompatibleTextRenderingDefault(false);

Application.Run(new SignIn());

}

}

}

## SqlCommands.cs

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.Data.SqlClient;

using Dapper;

using System.Data;

using System.Configuration;

using System.Windows.Forms;

namespace GeotTema

{

class SqlCommands

{

public string Login\_Name = "sql\_admin";

public string Login\_Pass = "Passw0rd";

public string connectionString = ($"Data Source=10.0.5.103;Initial Catalog=GeoTema;User ID=sql\_admin;password=Passw0rd;");

public List<Table> GetTable()

{

using (IDbConnection connection = new System.Data.SqlClient.SqlConnection(Helper.CnnVal("GeoTemaDB")))

{

return connection.Query<Table>($"select \* from Lande").ToList();

}

}

public static DataTable GetData(string query)

{

using (SqlConnection con = new SqlConnection(ConfigurationManager.ConnectionStrings["GeoTemaDB"].ConnectionString))

{

using (SqlCommand cmd = new SqlCommand(query))

{

DataTable dt = new DataTable();

using (SqlDataAdapter sda = new SqlDataAdapter(query, con))

{

sda.Fill(dt);

}

return dt;

}

}

}

public List<Table> SearchTable(string Land)

{

using (IDbConnection connection = new System.Data.SqlClient.SqlConnection(Helper.CnnVal("GeoTemaDB")))

{

return connection.Query<Table>($"select \* from Lande where Lande.Lande LIKE '{Land}%'").ToList();

}

}

public static void CreateLogin(string name, string pass)

{

Sqlstatment($"CREATE LOGIN {name} WITH PASSWORD = '{pass}';");

Sqlstatment($"CREATE USER u{name} FOR LOGIN {name};");

Sqlstatment($"GRANT CONNECT TO u{name};");

Sqlstatment($"GRANT SELECT ON LANDE TO u{name}");

}

public static void Sqlstatment(string sql)

{

using (SqlConnection con = new SqlConnection(ConfigurationManager.ConnectionStrings["GeoTemaDB"].ConnectionString))

{

try

{

con.Open();

SqlCommand cmd = new SqlCommand(sql, con);

cmd.ExecuteNonQuery();

con.Close();

}

catch (Exception)

{

}

}

}

public bool Login (string name, string pass)

{

SqlConnection cnn;

string connetionString = ($"Data Source=10.0.5.103;Initial Catalog=GeoTema;User ID={name};password={pass};");

cnn = new SqlConnection(connetionString);

try

{

cnn.Open();

MessageBox.Show("Du er nu logget ind ");

cnn.Close();

return true;

}

catch (Exception)

{

return false;

}

}

}

}

## SignIn.Designer.cs

namespace GeotTema

{

partial class SignIn

{

/// <summary>

/// Required designer variable.

/// </summary>

private System.ComponentModel.IContainer components = null;

/// <summary>

/// Clean up any resources being used.

/// </summary>

/// <param name="disposing">true if managed resources should be disposed; otherwise, false.</param>

protected override void Dispose(bool disposing)

{

if (disposing && (components != null))

{

components.Dispose();

}

base.Dispose(disposing);

}

#region Windows Form Designer generated code

/// <summary>

/// Required method for Designer support - do not modify

/// the contents of this method with the code editor.

/// </summary>

private void InitializeComponent()

{

this.button1 = new System.Windows.Forms.Button();

this.button2 = new System.Windows.Forms.Button();

this.label1 = new System.Windows.Forms.Label();

this.label2 = new System.Windows.Forms.Label();

this.textBox1 = new System.Windows.Forms.TextBox();

this.textBox2 = new System.Windows.Forms.TextBox();

this.label3 = new System.Windows.Forms.Label();

this.label4 = new System.Windows.Forms.Label();

this.SuspendLayout();

//

// button1

//

this.button1.Location = new System.Drawing.Point(52, 187);

this.button1.Name = "button1";

this.button1.Size = new System.Drawing.Size(75, 23);

this.button1.TabIndex = 0;

this.button1.Text = "Sign In";

this.button1.UseVisualStyleBackColor = true;

this.button1.Click += new System.EventHandler(this.button1\_Click);

//

// button2

//

this.button2.Location = new System.Drawing.Point(52, 310);

this.button2.Name = "button2";

this.button2.Size = new System.Drawing.Size(75, 23);

this.button2.TabIndex = 1;

this.button2.Text = "Sign Up";

this.button2.UseVisualStyleBackColor = true;

this.button2.Click += new System.EventHandler(this.button2\_Click);

//

// label1

//

this.label1.AutoSize = true;

this.label1.Location = new System.Drawing.Point(49, 69);

this.label1.Name = "label1";

this.label1.Size = new System.Drawing.Size(63, 13);

this.label1.TabIndex = 2;

this.label1.Text = "User Name:";

//

// label2

//

this.label2.AutoSize = true;

this.label2.Location = new System.Drawing.Point(49, 127);

this.label2.Name = "label2";

this.label2.Size = new System.Drawing.Size(56, 13);

this.label2.TabIndex = 3;

this.label2.Text = "Password:";

this.label2.Click += new System.EventHandler(this.label2\_Click);

//

// textBox1

//

this.textBox1.Location = new System.Drawing.Point(49, 85);

this.textBox1.Name = "textBox1";

this.textBox1.Size = new System.Drawing.Size(133, 20);

this.textBox1.TabIndex = 5;

//

// textBox2

//

this.textBox2.Location = new System.Drawing.Point(49, 143);

this.textBox2.Name = "textBox2";

this.textBox2.Size = new System.Drawing.Size(133, 20);

this.textBox2.TabIndex = 6;

this.textBox2.TextChanged += new System.EventHandler(this.textBox2\_TextChanged);

//

// label3

//

this.label3.AutoSize = true;

this.label3.Font = new System.Drawing.Font("Microsoft Sans Serif", 12.25F);

this.label3.Location = new System.Drawing.Point(52, 36);

this.label3.Name = "label3";

this.label3.Size = new System.Drawing.Size(60, 20);

this.label3.TabIndex = 7;

this.label3.Text = "Sign In";

//

// label4

//

this.label4.AutoSize = true;

this.label4.Location = new System.Drawing.Point(53, 294);

this.label4.Name = "label4";

this.label4.Size = new System.Drawing.Size(120, 13);

this.label4.TabIndex = 8;

this.label4.Text = "Dont have an account?";

//

// SignIn

//

this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);

this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;

this.ClientSize = new System.Drawing.Size(294, 403);

this.Controls.Add(this.label4);

this.Controls.Add(this.label3);

this.Controls.Add(this.textBox2);

this.Controls.Add(this.textBox1);

this.Controls.Add(this.label2);

this.Controls.Add(this.label1);

this.Controls.Add(this.button2);

this.Controls.Add(this.button1);

this.Name = "SignIn";

this.Text = "Form1";

this.ResumeLayout(false);

this.PerformLayout();

}

#endregion

private System.Windows.Forms.Button button1;

private System.Windows.Forms.Button button2;

private System.Windows.Forms.Label label1;

private System.Windows.Forms.Label label2;

private System.Windows.Forms.TextBox textBox1;

private System.Windows.Forms.TextBox textBox2;

private System.Windows.Forms.Label label3;

private System.Windows.Forms.Label label4;

}

**}**

## SignIn.Cs

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.SqlClient;

namespace GeotTema

{

public partial class SignIn : Form

{

SqlCommands lgin = new SqlCommands();

public SignIn()

{

InitializeComponent();

}

private void label2\_Click(object sender, EventArgs e)

{

}

private void textBox2\_TextChanged(object sender, EventArgs e)

{

}

private void linkLabel1\_LinkClicked(object sender, LinkLabelLinkClickedEventArgs e)

{

MessageBox.Show("Contact your host admin");

}

private void button1\_Click(object sender, EventArgs e)

{

bool b = lgin.Login(textBox1.Text, textBox2.Text);

if (b == true)

{

this.Hide();

Info\_Page f2 = new Info\_Page();

f2.ShowDialog();

this.Close();

}

else

{

MessageBox.Show("Du kunne ikke logge ind ");

}

}

private void button2\_Click(object sender, EventArgs e)

{

this.Hide();

SignUp f3 = new SignUp();

f3.ShowDialog();

this.Close();

}

}

**}**

## SignUp.Designer.cs

namespace GeotTema

{

partial class SignUp

{

/// <summary>

/// Required designer variable.

/// </summary>

private System.ComponentModel.IContainer components = null;

/// <summary>

/// Clean up any resources being used.

/// </summary>

/// <param name="disposing">true if managed resources should be disposed; otherwise, false.</param>

protected override void Dispose(bool disposing)

{

if (disposing && (components != null))

{

components.Dispose();

}

base.Dispose(disposing);

}

#region Windows Form Designer generated code

/// <summary>

/// Required method for Designer support - do not modify

/// the contents of this method with the code editor.

/// </summary>

private void InitializeComponent()

{

this.label3 = new System.Windows.Forms.Label();

this.textBox2 = new System.Windows.Forms.TextBox();

this.textBox1 = new System.Windows.Forms.TextBox();

this.label2 = new System.Windows.Forms.Label();

this.label1 = new System.Windows.Forms.Label();

this.button2 = new System.Windows.Forms.Button();

this.button1 = new System.Windows.Forms.Button();

this.textBox3 = new System.Windows.Forms.TextBox();

this.label4 = new System.Windows.Forms.Label();

this.label5 = new System.Windows.Forms.Label();

this.label6 = new System.Windows.Forms.Label();

this.SuspendLayout();

//

// label3

//

this.label3.AutoSize = true;

this.label3.Font = new System.Drawing.Font("Microsoft Sans Serif", 12.25F);

this.label3.Location = new System.Drawing.Point(49, 36);

this.label3.Name = "label3";

this.label3.Size = new System.Drawing.Size(68, 20);

this.label3.TabIndex = 15;

this.label3.Text = "Sign Up";

//

// textBox2

//

this.textBox2.Location = new System.Drawing.Point(46, 143);

this.textBox2.Name = "textBox2";

this.textBox2.Size = new System.Drawing.Size(133, 20);

this.textBox2.TabIndex = 14;

this.textBox2.UseSystemPasswordChar = true;

this.textBox2.TextChanged += new System.EventHandler(this.textBox2\_TextChanged);

//

// textBox1

//

this.textBox1.Location = new System.Drawing.Point(46, 85);

this.textBox1.Name = "textBox1";

this.textBox1.Size = new System.Drawing.Size(133, 20);

this.textBox1.TabIndex = 13;

//

// label2

//

this.label2.AutoSize = true;

this.label2.Location = new System.Drawing.Point(46, 127);

this.label2.Name = "label2";

this.label2.Size = new System.Drawing.Size(56, 13);

this.label2.TabIndex = 11;

this.label2.Text = "Password:";

//

// label1

//

this.label1.AutoSize = true;

this.label1.Location = new System.Drawing.Point(46, 69);

this.label1.Name = "label1";

this.label1.Size = new System.Drawing.Size(63, 13);

this.label1.TabIndex = 10;

this.label1.Text = "User Name:";

//

// button2

//

this.button2.Location = new System.Drawing.Point(49, 236);

this.button2.Name = "button2";

this.button2.Size = new System.Drawing.Size(75, 23);

this.button2.TabIndex = 9;

this.button2.Text = "Sign Up";

this.button2.UseVisualStyleBackColor = true;

this.button2.Click += new System.EventHandler(this.button2\_Click);

//

// button1

//

this.button1.Location = new System.Drawing.Point(53, 355);

this.button1.Name = "button1";

this.button1.Size = new System.Drawing.Size(75, 23);

this.button1.TabIndex = 8;

this.button1.Text = "Sign In";

this.button1.UseVisualStyleBackColor = true;

this.button1.Click += new System.EventHandler(this.button1\_Click);

//

// textBox3

//

this.textBox3.Location = new System.Drawing.Point(46, 195);

this.textBox3.Name = "textBox3";

this.textBox3.Size = new System.Drawing.Size(133, 20);

this.textBox3.TabIndex = 17;

this.textBox3.UseSystemPasswordChar = true;

this.textBox3.TextChanged += new System.EventHandler(this.textBox3\_TextChanged);

//

// label4

//

this.label4.AutoSize = true;

this.label4.Location = new System.Drawing.Point(46, 179);

this.label4.Name = "label4";

this.label4.Size = new System.Drawing.Size(94, 13);

this.label4.TabIndex = 16;

this.label4.Text = "Repeat Password:";

//

// label5

//

this.label5.AutoSize = true;

this.label5.Location = new System.Drawing.Point(50, 339);

this.label5.Name = "label5";

this.label5.Size = new System.Drawing.Size(126, 13);

this.label5.TabIndex = 18;

this.label5.Text = "Already have an account";

//

// label6

//

this.label6.AutoSize = true;

this.label6.Location = new System.Drawing.Point(46, 218);

this.label6.Name = "label6";

this.label6.Size = new System.Drawing.Size(0, 13);

this.label6.TabIndex = 19;

//

// SignUp

//

this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);

this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;

this.ClientSize = new System.Drawing.Size(251, 450);

this.Controls.Add(this.label6);

this.Controls.Add(this.label5);

this.Controls.Add(this.textBox3);

this.Controls.Add(this.label4);

this.Controls.Add(this.label3);

this.Controls.Add(this.textBox2);

this.Controls.Add(this.textBox1);

this.Controls.Add(this.label2);

this.Controls.Add(this.label1);

this.Controls.Add(this.button2);

this.Controls.Add(this.button1);

this.Name = "SignUp";

this.Text = "GeoTema";

this.Load += new System.EventHandler(this.SignUp\_Load);

this.ResumeLayout(false);

this.PerformLayout();

}

#endregion

private System.Windows.Forms.Label label3;

private System.Windows.Forms.TextBox textBox2;

private System.Windows.Forms.TextBox textBox1;

private System.Windows.Forms.Label label2;

private System.Windows.Forms.Label label1;

private System.Windows.Forms.Button button2;

private System.Windows.Forms.Button button1;

private System.Windows.Forms.TextBox textBox3;

private System.Windows.Forms.Label label4;

private System.Windows.Forms.Label label5;

private System.Windows.Forms.Label label6;

}

**}**

## SignUp.cs

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 Dapper;

namespace GeotTema

{

public partial class SignUp : Form

{

SqlCommands sudb = new SqlCommands();

public SignUp()

{

InitializeComponent();

}

private void SignUp\_Load(object sender, EventArgs e)

{

}

private void button2\_Click(object sender, EventArgs e)

{

if (textBox2.Text == textBox3.Text)

{

string name = textBox1.Text;

string pass = textBox2.Text;

SqlCommands.CreateLogin(name, pass);

SqlCommands lgin = new SqlCommands();

bool b = lgin.Login(textBox1.Text, textBox2.Text);

if (b == true)

{

this.Hide();

Info\_Page f2 = new Info\_Page();

f2.ShowDialog();

this.Close();

}

else

{

MessageBox.Show("Bad Pass");

}

}

else

{

}

}

private void button1\_Click(object sender, EventArgs e)

{

this.Hide();

SignIn f1 = new SignIn();

f1.ShowDialog();

this.Close();

}

private void textBox3\_TextChanged(object sender, EventArgs e)

{

if (textBox2.Text == textBox3.Text)

{

label6.Text = "Password er ens";

}

else if (textBox2.Text != textBox3.Text)

{

label6.Text = "Password er ikke ens";

}

}

private void textBox2\_TextChanged(object sender, EventArgs e)

{

if(textBox2.Text == textBox3.Text)

{

label6.Text = "Password er ens";

}

else if (textBox2.Text != textBox3.Text)

{

label6.Text = "Password er ikke ens";

}

}

}

**}**

## Info\_Page.Designer.Cs

namespace GeotTema

{

partial class Info\_Page

{

/// <summary>

/// Required designer variable.

/// </summary>

private System.ComponentModel.IContainer components = null;

/// <summary>

/// Clean up any resources being used.

/// </summary>

/// <param name="disposing">true if managed resources should be disposed; otherwise, false.</param>

protected override void Dispose(bool disposing)

{

if (disposing && (components != null))

{

components.Dispose();

}

base.Dispose(disposing);

}

#region Windows Form Designer generated code

/// <summary>

/// Required method for Designer support - do not modify

/// the contents of this method with the code editor.

/// </summary>

private void InitializeComponent()

{

System.Windows.Forms.DataVisualization.Charting.ChartArea chartArea1 = new System.Windows.Forms.DataVisualization.Charting.ChartArea();

System.Windows.Forms.DataVisualization.Charting.Series series1 = new System.Windows.Forms.DataVisualization.Charting.Series();

this.SearchBox = new System.Windows.Forms.TextBox();

this.Info\_PageGridView = new System.Windows.Forms.DataGridView();

this.SearchButton = new System.Windows.Forms.Button();

this.chart1 = new System.Windows.Forms.DataVisualization.Charting.Chart();

((System.ComponentModel.ISupportInitialize)(this.Info\_PageGridView)).BeginInit();

((System.ComponentModel.ISupportInitialize)(this.chart1)).BeginInit();

this.SuspendLayout();

//

// SearchBox

//

this.SearchBox.Location = new System.Drawing.Point(39, 26);

this.SearchBox.Name = "SearchBox";

this.SearchBox.Size = new System.Drawing.Size(100, 20);

this.SearchBox.TabIndex = 0;

this.SearchBox.Text = "Search";

this.SearchBox.TextChanged += new System.EventHandler(this.SearchBox\_TextChanged);

//

// Info\_PageGridView

//

this.Info\_PageGridView.ColumnHeadersHeightSizeMode = System.Windows.Forms.DataGridViewColumnHeadersHeightSizeMode.AutoSize;

this.Info\_PageGridView.Location = new System.Drawing.Point(39, 67);

this.Info\_PageGridView.Name = "Info\_PageGridView";

this.Info\_PageGridView.Size = new System.Drawing.Size(547, 353);

this.Info\_PageGridView.TabIndex = 1;

this.Info\_PageGridView.CellContentClick += new System.Windows.Forms.DataGridViewCellEventHandler(this.LandeGrid\_CellContentClick);

//

// SearchButton

//

this.SearchButton.Location = new System.Drawing.Point(156, 24);

this.SearchButton.Name = "SearchButton";

this.SearchButton.Size = new System.Drawing.Size(75, 23);

this.SearchButton.TabIndex = 2;

this.SearchButton.Text = "Search";

this.SearchButton.UseVisualStyleBackColor = true;

this.SearchButton.Click += new System.EventHandler(this.SearchButton\_Click);

//

// chart1

//

chartArea1.AxisX.Interval = 1D;

chartArea1.Name = "ChartArea1";

this.chart1.ChartAreas.Add(chartArea1);

this.chart1.Location = new System.Drawing.Point(592, 67);

this.chart1.Name = "chart1";

this.chart1.Palette = System.Windows.Forms.DataVisualization.Charting.ChartColorPalette.Fire;

series1.ChartArea = "ChartArea1";

series1.Name = "Series1";

series1.YValuesPerPoint = 2;

this.chart1.Series.Add(series1);

this.chart1.Size = new System.Drawing.Size(607, 353);

this.chart1.TabIndex = 3;

this.chart1.Text = "chart1";

//

// Info\_Page

//

this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);

this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;

this.ClientSize = new System.Drawing.Size(1209, 430);

this.Controls.Add(this.chart1);

this.Controls.Add(this.SearchButton);

this.Controls.Add(this.Info\_PageGridView);

this.Controls.Add(this.SearchBox);

this.Name = "Info\_Page";

this.Text = "Info\_Page";

this.Load += new System.EventHandler(this.Info\_Page\_Load);

((System.ComponentModel.ISupportInitialize)(this.Info\_PageGridView)).EndInit();

((System.ComponentModel.ISupportInitialize)(this.chart1)).EndInit();

this.ResumeLayout(false);

this.PerformLayout();

}

#endregion

private System.Windows.Forms.TextBox SearchBox;

private System.Windows.Forms.DataGridView Info\_PageGridView;

private System.Windows.Forms.Button SearchButton;

private System.Windows.Forms.DataVisualization.Charting.Chart chart1;

}

**}**

## Info\_Page.cs

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;

namespace GeotTema

{

public partial class Info\_Page : Form

{

SqlCommands ipdb = new SqlCommands();

List<Table> table = new List<Table>();

public string name = "sql\_admin";

public string pass = "Passw0rd";

public Info\_Page()

{

InitializeComponent();

}

private void SearchButton\_Click(object sender, EventArgs e)

{

Info\_PageGridView.DataSource = ipdb.SearchTable(SearchBox.Text);

}

private void LandeGrid\_CellContentClick(object sender, DataGridViewCellEventArgs e)

{

}

private void Info\_Page\_Load(object sender, EventArgs e)

{

Info\_PageGridView.DataSource = ipdb.GetTable();

string query = string.Format("select \* from Lande");

DataTable dt = SqlCommands.GetData(query);

chart1.DataSource = dt;

chart1.Series[0].XValueMember = "Lande";

chart1.Series[0].YValueMembers = "Fodselsrate";

chart1.DataBind();

}

private void SearchBox\_TextChanged(object sender, EventArgs e)

{

Info\_PageGridView.DataSource = ipdb.SearchTable(SearchBox.Text);

}

}

}