

**ŠIAULŲ VALSTYBINĖS KOLEGIJOS  
VERSLO IR TECHNOLOGIJŲ FAKULTETO  
INFORMATIKOS MOKSLŲ KATEDRA**

Lukas Dapkevičius

**Egzaminas: Asmeninių finansų apskaita**

Objektinio programavimo darbas

Lukas Dapkevičius  
Donatas Dervinis

**Šiauliai, 202X**

# Rezultatas

LoginForm



Username

admin

Password

••••••••

Prisijungti



Prisijungimas sėkmingas!

OK

Kategorijos

	CategoryID	Type	Name
▶	1	Pajamos	masina
	2	Islaidos	Struke
	3	Islaidos	Telefonas
*			

pridet kategorija

edit kategorija

delete kategorija

Finansines transakcijos

	TransactionID	UserID	CategoryID	Amount	Date	Dr ^
	4	1	3	100,00	2024-01-11	rau
	5	1	2	100,00	2024-01-11	Me
	6	1	1	600,00	2024-01-11	Ru
	7	1	3	500,00	2024-01-11	Jur
	8	1	2	30,00	2024-01-11	Jur

Prideti transakcija

transakcija edit

transakcija delete

Paaiskinimas:

1. Prideti Kategorija(rasyti arba "Pajamos" arba "Islaidos")
2. Prideti Finansine Transakcija, viska surasyti klavetura (nurodyti kategorijos id ir t.t.)
3. Generuokite visas tris ataskaitas

Ataskaita Generatorius pagal data

	TransactionID	Amount	CategoryID	Date	Description
▶	1	5,00	1	2024-01-11	kietai
	2	10,00	2	2024-01-11	Melyna
	3	200,00	3	2024-01-11	Juodas
	4	100,00	3	2024-01-11	raudona
	5	100,00	2	2024-01-11	Melyna

Pradzio DATA 2024 m. sausis 11 d., ketvirtadienis

Pabaigos DATA 2024 m. sausis 12 d., penktadienis

Generuoti Ataskaita

	Name	TotalAmount
▶	masina	605,00
	Struke	140,00
	Telefonas	800,00
*		

Generuoti kategorine sumine ataskaita

	Type	TotalAmount
▶	Pajamos	605,00
	Islaidos	940,00
*		

Sugeneruoti Finansinę Sumos Ataskaitą

Suma

Kategorijos ID

Data

 ▾

Aprašymas

Username

admin

Password

••••••••

Prisijungti

×

Prisijungimas sėkmingas!

OK

```
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Threading.Tasks;
5  using System.Windows.Forms;
6
7  namespace WindowsFormsApp1
8  {
9      0 references
10     internal static class Program
11     {
12         /// Pagrindinis įėjimo taskas programai
13         [STAThread]
14         0 references
15         static void Main()
16         {
17             Application.EnableVisualStyles();
18             Application.SetCompatibleTextRenderingDefault(false);
19             Application.Run(new LoginForm());
20         }
21     }
```

```

1  using System;
2  using System.Collections.Generic;
3  using System.ComponentModel;
4  using System.Data;
5  using System.Data.SqlClient;
6  using System.Drawing;
7  using System.Linq;
8  using System.Text;
9  using System.Threading.Tasks;
10 using System.Windows.Forms;
11
12 namespace WindowsFormsApp1
13 {
14     4 references
15     public partial class Form1 : Form
16     {
17
18         private SqlConnection connection = new SqlConnection("Data Source=DESKTOP-P3GTBMC;Initial Catalog=AsmeniniuFinans
19         1 reference
20         public Form1()
21         {
22             InitializeComponent();
23             InitializeEventHandlers();
24             LoadCategories();
25             LoadTransactions();
26         }
27         1 reference
28         private void InitializeEventHandlers()
29         {
30             btnGenerateReport.Click += btnGenerateReport_Click;
31             dgTransactions.CellContentClick += DgTransactions_CellContentClick;
32         }
33
34

```

No issues found | Ln: 701 Ch: 17 SPC CRLF

```

1  using System;
2  using System.Data.SqlClient;
3  using System.Windows.Forms;
4
5  namespace WindowsFormsApp1
6  {
7     3 references
8     public partial class LoginForm : Form
9     {
10         private SqlConnection connection = new SqlConnection("Data Source=DESKTOP-P3GTBMC;Initial Catalog=AsmeniniuFinans
11
12         2 references
13         public string Username { get; private set; }
14         2 references
15         public string Password { get; private set; }
16
17         1 reference
18         public LoginForm()
19         {
20             InitializeComponent();
21             txtPassword.UseSystemPasswordChar = true;
22         }
23
24         // Metodas skirtas autentifikacijai su duomeny baze
25         1 reference
26         private bool AuthenticateUser(string username, string password)
27         {
28             try
29             {
30                 connection.Open();
31
32                 // Paruošiamo SQL užklausa
33                 string query = "SELECT COUNT(*) FROM Users WHERE Username = @Username AND Password = @Password";
34
35                 using (SqlCommand command = new SqlCommand(query, connection))
36

```

No issues found | Ln: 52 Ch: 36 SPC CRLF

```

1  using System;
2  using System.Collections.Generic;
3  using System.ComponentModel;
4  using System.Data;
5  using System.Drawing;
6  using System.Linq;
7  using System.Text;
8  using System.Threading.Tasks;
9  using System.Windows.Forms;
10
11 namespace WindowsFormsApp1
12 {
13     6 references
14     public partial class CategoryForm : Form
15     {
16         4 references
17         public string Name { get; private set; }
18         2 references
19         public string Type { get; private set; }
20         2 references
21         public CategoryForm(string currentName, string currentType)
22         {
23             InitializeComponent();
24             txtCategoryName.Text = currentName;
25             cboCategoryType.Text = currentType;
26         }
27
28         1 reference
29         private void btnOK_Click(object sender, EventArgs e)
30         {
31             Name = txtCategoryName.Text;
32             Type = cboCategoryType.Text; // Naujas laukas kategorijos tipo pasirinkimui
33             DialogResult = DialogResult.OK;
34             Close();
35         }
36
37         1 reference
38         private void btnCancel_Click(object sender, EventArgs e)

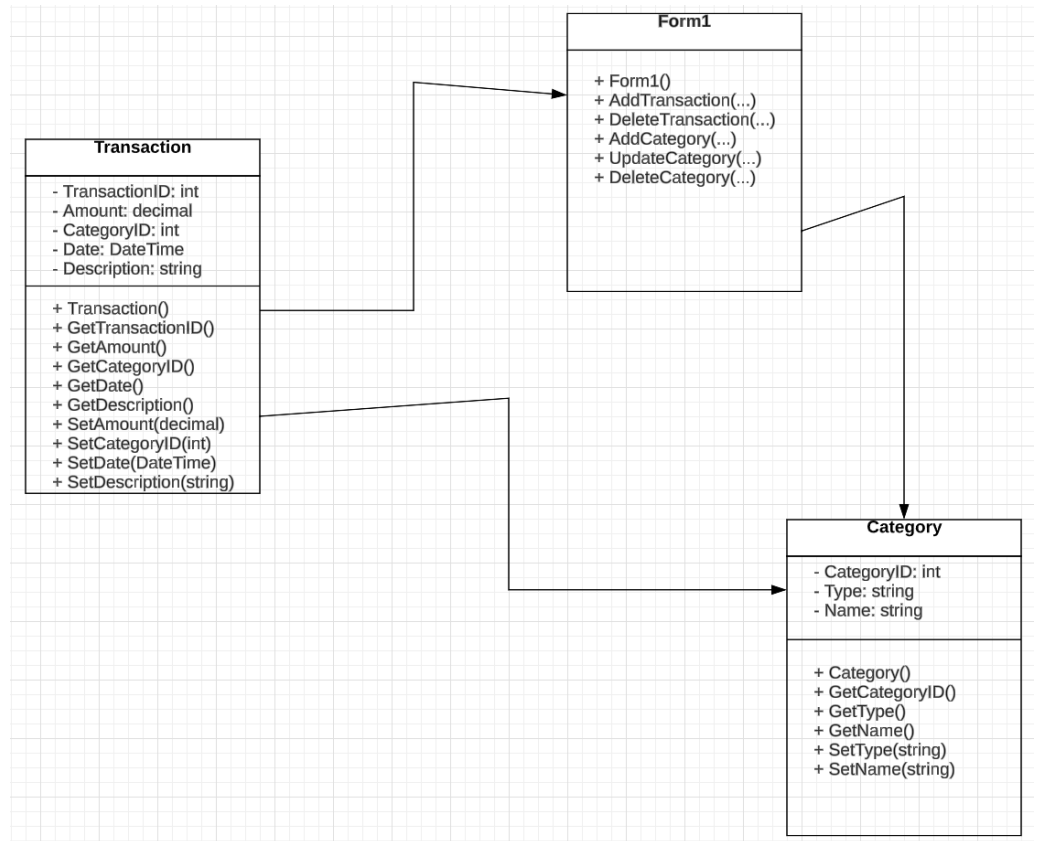
```

```

1  using System;
2  using System.Collections.Generic;
3  using System.ComponentModel;
4  using System.Data;
5  using System.Drawing;
6  using System.Linq;
7  using System.Text;
8  using System.Threading.Tasks;
9  using System.Windows.Forms;
10 using static System.Windows.Forms.AxHost;
11
12 namespace WindowsFormsApp1
13 {
14     6 references
15     public partial class TransactionForm : Form
16     {
17         4 references
18         public decimal Amount { get; private set; }
19         4 references
20         public int CategoryID { get; private set; }
21         4 references
22         public DateTime Date { get; private set; }
23         4 references
24         public string Description { get; private set; }
25         2 references
26         public TransactionForm(decimal initialAmount, int initialCategoryID, DateTime initialDate, string initialDescription)
27         {
28             InitializeComponent();
29
30             // Priskiriame pradines reiksmes
31             Amount = initialAmount;
32             CategoryID = initialCategoryID;
33             Date = initialDate;
34             Description = initialDescription;
35
36             // Nustatome formos laukus pagal pradines reiksmes
37             txtAmount.Text = initialAmount.ToString();
38             txtCategoryID.Text = initialCategoryID.ToString();

```

# UML





# Duomenų Bazė

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```
-- Sukuriame duomenų bazę
CREATE DATABASE AsmeniniuFinansuApskaita;

use AsmeniniuFinansuApskaita;

-- Naudotojų lentelė
CREATE TABLE Users (
    UserID INT PRIMARY KEY IDENTITY(1,1),
    Username NVARCHAR(50) NOT NULL,
    Password NVARCHAR(50) NOT NULL
);

-- Klasifikatorių lentelė
CREATE TABLE Categories (
    CategoryID INT PRIMARY KEY IDENTITY(1,1),
    Type NVARCHAR(50) NOT NULL, -- "Pajamos" arba "Išlaidos"
    Name NVARCHAR(50) NOT NULL
);

-- Įrašų lentelė
CREATE TABLE Transactions (
    TransactionID INT PRIMARY KEY IDENTITY(1,1),
    UserID INT FOREIGN KEY REFERENCES Users(UserID),
    CategoryID INT FOREIGN KEY REFERENCES Categories(CategoryID),
    Amount DECIMAL(18,2) NOT NULL,
    Date DATE NOT NULL,
    Description NVARCHAR(255)
);
```

---

```
use AsmeniniuFinansuApskaita;
```

```
insert into users Values ('admin', 'admin123');
```