UNINABUCO

ANÁLISE E DESENVOLVIMENTO DE SOFTWARE

TÓPICOS INTEGRADORES II

Documentação de Projeto de Software

Versão 1.4

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GitHub https://github.com/tadkey/lojaDeCarros

2020

Controle de Versão do Documento

Versão	Descrição
1.4	Sistema para gerenciamento de vendas de carros. Protótipos com as telas da camada Model, DAO, Controller

Sumário

1. Introdução ao Documento

1.1.   Área de negócio do Sistema
Sistema para gerenciamento de venda de carros.

1.2.   Principais funcionalidades
Devera conter um sistema de login para funcionário, com a opção de inserir novos usuários, consulta no estoque, consulta do cliente e venda de carro.

1.3.   Método de trabalho
O método de desenvolvimento ágil com a linguagem Java usando a biblioteca Swing, o SGBD a ser utilizado é o MySQL.

2. Modelo de Dados

2.1.   Modelo de Visão

Loja de Carros

Na loja de carros do senhor Osvaldo deve conter uma área de login para os *funcionários poderem acessar, somente funcionários cadastrados pelo admin podem se* conectar ao sistema, dentro do sistema deve conter como cadastrar novos funcionários para acessar o sistema, deve ter como adicionar novos produtos, como consultar novos produtos, cadastrar um cliente e ligar um cliente a venda especifica, ligar o cliente a uma reserva, se o carro for "0 km" deve conter a opção do cliente escolher os opcionais disponível para o carro. Depois da compra o veiculo deve ser subtraído do banco de dados, porém deve constar como venda e o valor da venda deve ficar no sistema. Podendo saber quais carros o usuário já comprou, se teve analise de créditos negadas, e quantas vezes ele fez a analise de crédito, e contendo todos os itens organizados em estoque. Deve conter o login do usuário, no caso armazenar nome e senha do usuário, na tabela usuário deve ser armazenado o os telefones ,CPF, Nome e Email podendo o usuário ser admin ou funcionário normal onde este deve ser munido de matrícula, a venda deve conter a data da venda e o código da venda, já na tabela cliente deve conter o cpf, data de nascimento, nome completo, cnh, nível escolar, estado civil, rg, com o endereço completo contendo rua, cep ,cidade, numero e complemento, deve conter ainda um historio de compras para o cliente contendo quantidade de carros, quantidade de analise de crédito e quantidade de credito negado, já no estoque deve conter valor de venda

placa, cor, valor de compra, e os opcionais que são rodas de liga leve, ar, banco em couro multimidia e pintura perolada, deve conter a opção de cadastrar o fabricante com a marca e modelo dos carros dos fabricantes específicos.

2.2.   Modelo Conceitual

Modelo conceitual do projeto de banco de dados utilizando a modelagem ER e apresentando o DER.
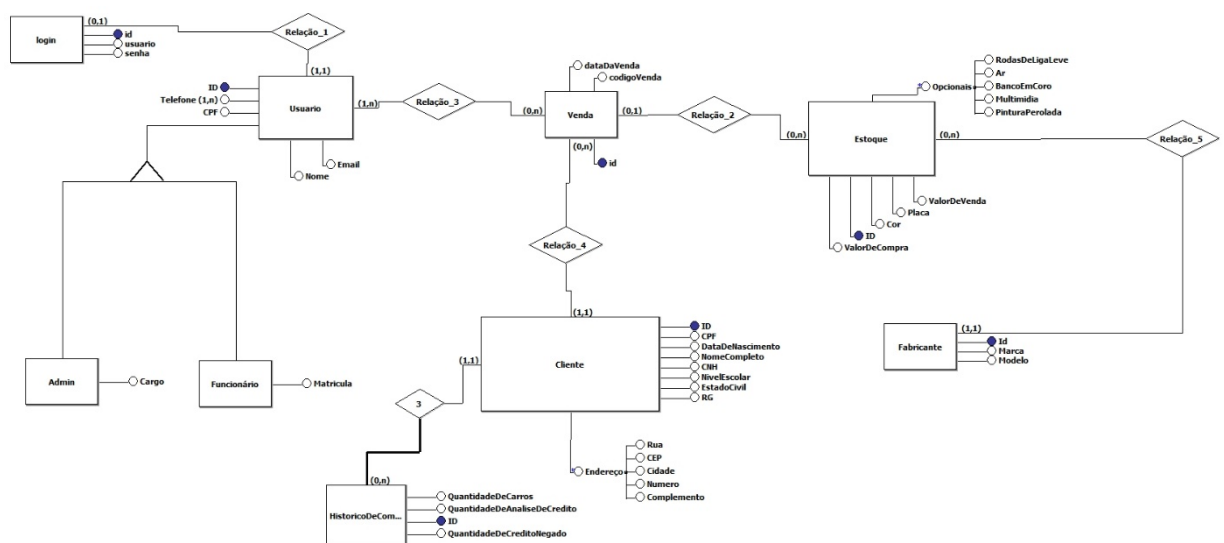
2.3.   Modelo Lógico

Modelo lógico do projeto na 3ª forma normal. Apresentado de forma descritiva. Com todas as constraint de primary key e foreign key.

Segue abaixo as tabelas

=> login(usuario,senha, codUser)

    usuario primary key

    codUser foreign key referencia tabela usuario

=> venda(dataDaVenda, codigoVenda, codCliente)

    codigoVenda primary key

codCliente foreign key refenrencia a tabela cliente

=> Cliente(ID, CPF, DataDeNascimento,NomeCompleto,CNH, NivelEscolar, EstadoCivil, RG, Rua, CEP, Cidade, Numero, Complemento)

        ID primary Key

=> Estoque (ID, ValorDeCompra, Cor, Placa, ValorDeVenda, RodasDeLigaLeve, Ar, BancoEmCoro, Multimidia, PinturaPerolada, idVenda,idFabricante)

        ID primary Key

        idVenda foreign key referencia a tabela venda

        idFabricante foreign key referencia a tabela fabricante

=> Fabricante (id, nomeDoFabricante, modelo, marca)

        Id primary key

=> telefone(idUsuario, idTelefone)

        idUsuario, idTelefone primary key

        idUsuario foreign key referencia Usuario

=> HistoricoDeCompras(ID, QuantidadeDeCarros, QuantidadeDeAnaliseDeCredito, QuantidadeDeCreditoNegado, codCliente)

        ID, codCliente primary key

=> usuario(ID,CPF, Email, Nome, Matricula, cargo)

        ID primary Key

=> Relação_3 (codVenda, codUsuario)

   codVenda, codUsuario primary key

   codVenda, foreign key referencia a tabela Venda

   codUsuario ,foreign key referencia a tabela Usuario

2.4.   Dicionário de Dados
Segue abaixo:

Tabela Login

Identificador	Tipo (tamanho)	Obrigatório	Chave	Descrição
Id	int	Sim	PK	Chave primaria da tabela
Usuario	varchar	Sim	UN	Unique
senha	varchar	sim		Senha de login
codUsuario	int	sim	FK	Referencia usuario (ID)

Tabela venda

Identificador	Tipo (tamanho)	Obrigatório	Chave	Descrição
codigoVenda	int	Sim	PK	Chave primaria da tabela
dataDaVenda	date	sim		Data da Venda
codCliente	int	sim	FK	Referencia cliente (ID)

Tabela Cliente

Identificador	Tipo (tamanho)	Obrigatório	Chave	Descrição
ID	int	Sim	PK	Chave primaria da tabela
CPF	varchar	sim	UN	CPF do Cliente UNIQUE
DataDeNascimento	date	sim		Data de Nascimento do Cliente
NomeCompleto	varchar	Sim		Nome completo do Cliente
CNH	Varchar	Sim	UN	CNH do Cliente UNIQUE
NivelEscolar	Varchar	Não		Nível escolar do Cliente
EstadoCivil	Varchar	Sim		Estado Civil do Cliente

RG	Varchar	Sim	UN	RG do Cliente UNIQUE
Rua	Varchar	Sim		Rua
CEP	Varchar	Sim		CEP
Cidade	Varchar	Sim		Cidade
Numero	Int	Sim		Número da Residência
Complemento	varchar	Não		Complemento do Endereço

Tabela Estoque

Identificador	Tipo (tamanho)	Obrigatório	Chave	Descrição
ID	int	Sim	PK	Chave primaria da tabela
ValorDeCompra	float	sim		Valor que foi comprado da fabrica
Cor	varchar	sim		Cor do veiculo
Placa	varchar	Sim	UN	Placa do Veiculo se tiver UNIQUE
ValorDeVenda	float	Sim		Valor que foi vendido para o cliente
RodasDeLigaLeve	Varchar	Não		Se o cliente selecionar como adicional as Rodas de Liga L
Ar	Varchar	Não		Se o cliente selecionar como adicional o Ar Condicionado
BancoEmCoro	Varchar	Não		Se o cliente selecionar como adicional Banco em Coro
Multimidia	Varchar	Não		Se o cliente selecionar como adicional a Multimidia
PinturaPerolada	Varchar	Não		Se o cliente selecionar como adicional a Pintura Perolada
codVendas	Int	Não	FK	Referencia Venda(codigoVenda)
codFabricante	Int	Não	FK	Referencia Fabricante(id)

Tabela Fabricante

Identificador	Tipo (tamanho)	Obrigatório	Chave	Descrição
Id	int	Sim	PK	Chave primaria da tabela
modelo	Varchar	sim		Modelo do Veiculo
Marca	Varchar	Sim		Marca do Veiculo

Tabela telefone

Identificador	Tipo (tamanho)	Obrigatório	Chave	Descrição
idUsuario	int	Sim	PK	Chave primaria da tabela
idTelefone	Int	sim	PK	Chave Primaria da tabela
idUsuario	int	sim	FK	Referencia usuario (ID)

Tabela HistoricoDeCompras

Identificador	Tipo (tamanho)	Obrigatório	Chave	Descrição
ID	int	Sim	PK	Chave primaria da tabela
codCliente	Int	sim	PK	Chave Primaria da tabela
codCliente	Int	sim	FK	Referencia cliente(id)
QuantidadeDeCarros	int	sim		Quantidade de Carros que o usuario comprou
QuantidadeDeAnaliseDeCredito	Int	Sim		Quantidade de analise de credito que o usuario fez
QuantidadeDeCreditoNegado	Int	Sim		Quantidade de vezes que foi negado crédito

Tabela usuario

Identificador	Tipo (tamanho)	Obrigatório	Chave	Descrição
ID	int	Sim	PK	Chave primaria da tabela
CPF	Varchar	sim	UN	CPF do Usuario UNIQUE
Email	Varchar	sim	UN	Email do Usuario UNIQUE
Nome	Varchar	Sim		Nome do Usuario
Matricula	Int	Sim	UN	Matricula do Usuario UNIQUE
Cargo	Varchar	Não		Cadastrar de Gerente para Cima (quem tem cargo não tem matricula)

Tabela Relação_3

Identificador	Tipo (tamanho)	Obrigatório	Chave	Descrição
codVenda	int	Sim	PK	Chave primaria da tabela
codUsuario	Int	sim	PK	Chave Primaria da tabela

codVenda	int	sim	FK	Referencia Venda (ID)
codUsuario	Int	Sim	FK	Referencia Usuario (Id)

2.5. Modelo Físico

2.5.1. Apresentando os scripts DDL do banco de dados.

```sql
use sigcar;

drop database sigcar;

create database sigcar character set UTF8 collate utf8_general_ci;

use sigcar;


create table usuario(
id int primary key auto_increment,
cpf varchar(30) not null unique,
email varchar(60) not null unique,
nome varchar(30) not null,
matricula int not null unique,
cargo varchar(30)
);

create table login(
id int primary key auto_increment,
usuario varchar(60) not null unique,
senha varchar(32) not null,
codUsuario int not null,
foreign key (codUsuario) references usuario (id)
);

create table telefone(
idTelefone int not null,
idUsuario int not null,
primary key(idUsuario, idTelefone),
foreign key(idUsuario) references sigcar.usuario (id)
);



create table fabricante(
id int primary key auto_increment,
marca varchar(20) not null,
modelo varchar(20) not null
);

create table cliente(
id int primary key auto_increment,
cpf varchar(50) not null unique,
```

```sql
dataDeNascimento date not null,
nomeCompleto varchar(100) not null,
cnh varchar(50) not null,
nivelEscolar varchar(50),
estadoCivil varchar(50) not null,
rg varchar(50) not null unique,
rua varchar(50) not null,
cep varchar(50) not null,
cidade varchar(50) not null,
numero int not null,
complemento varchar(60)
);

create table historicoDeCompras(
id int auto_increment,
codCliente int,
quantidadeDeCarros int not null,
quantidadeDeAnaliseDeCredito int not null,
quantidadeDeCreditoNegado int not null,
primary key (id, codCliente),
foreign key(codCliente) references cliente(id)
);

create table venda (
codigoVenda int auto_increment,
dataDaVenda date not null,
codCliente int,
primary key(codigoVenda, codCliente),
foreign key (codCliente) references cliente (id)
);

create table estoque(
id int primary key auto_increment,
valorDeCompra float not null,
cor varchar(20) not null,
placa varchar(20) unique,
valorDeVenda float not null,
rodasDeLogaLeve varchar(20),
bancoEmCoro varchar(20),
multimidia varchar(20),
pinturaPerolada varchar(20),
codVendas int,
codFabricante int,
foreign key(codVendas) references venda(codigoVenda),
foreign key(codFabricante) references fabricante(id)
);

create table relacao_3(
codVenda int,
codUsuario int,
primary key (codUsuario, codVenda),
foreign key(codUsuario) references usuario(id),
foreign key(codVenda) references venda (codigoVenda)
);
/*-----------------------------------------fim da criação do banco ------
----------------------------------*/
```

```sql
use sigcar;
```

2.5.3. Comandos Inserte para alimentar cada tabela com 5 registros.

```sql
/*----------------------------------------inserindo cinco dados na
tabela usuario ---------------------------------------*/
insert into sigcar.usuario (cpf,email,nome, matricula,cargo)
values('10535032412', 'teste@gmail.com', 'tarcisio','01','Gerente');

insert into sigcar.usuario (cpf,email,nome, matricula,cargo)
values('69979974494', 'ccauesergiobrito@superig.com.br', 'Cauê Sérgio
Brito','02',null);

insert into sigcar.usuario (cpf,email,nome, matricula,cargo)
values('90071706437', 'franciscocaiobrito@simoesmendonca.adv.br', 'Francisco
Caio Brito','03',null);

insert into sigcar.usuario (cpf,email,nome, matricula,cargo)
values('75559214485', 'calebericardodacruz_@hotmal.com', 'Calebe Ricardo da
Cruz','04',null);

insert into sigcar.usuario (cpf,email,nome, matricula,cargo)
values('732.042.584-08', 'gustavodrumond-82@edwardmaluf.com.br', 'Miguel
Antonio Gustavo Drumond','05',null);


select *from usuario;

/*----------------------------------------inserindo cinco dados na
tabela telefone ---------------------------------------*/

insert into sigcar.telefone(`idTelefone`, `idUsuario`) values('985566514',
'1');

insert into sigcar.telefone(`idTelefone`, `idUsuario`) values('991634897',
'2');

insert into sigcar.telefone(`idTelefone`, `idUsuario`) values('995764205',
'3');

insert into sigcar.telefone(`idTelefone`, `idUsuario`) values('993095438',
'4');

insert into sigcar.telefone(`idTelefone`, `idUsuario`) values('981704863',
'5');


select *from telefone;

/*----------------------------------------inserindo cinco dados na
tabela login ---------------------------------------*/
insert into sigcar.login (usuario, senha, codUsuario)
values('admin', '12345', '1');

insert into sigcar.login (usuario, senha, codUsuario)
values('caue', '12345', '2');

insert into sigcar.login (usuario, senha, codUsuario)
```

```sql
values('francisco', '12345', '3');

insert into sigcar.login (usuario, senha, codUsuario)
values('calebe', '12345', '4');

insert into sigcar.login (usuario, senha, codUsuario)
values('antonio', '12345', '5');

select *from login;

/*---------------------------------------inserindo cinco dados na
tabela cliente ---------------------------------------*/

insert into sigcar.cliente (cpf, `dataDeNascimento`,
`nomeCompleto`,cnh,`nivelEscolar`,`estadoCivil`,
rg,rua,cep,cidade,numero,complemento)
values('12525824515','1995-11-19','jose da silva',
'25456586','medio','solteiro', '9545828',
'coronel joaquim inácio','54230140','olinda', '56','');

insert into sigcar.cliente (cpf, `dataDeNascimento`,
`nomeCompleto`,cnh,`nivelEscolar`,`estadoCivil`,
rg,rua,cep,cidade,numero,complemento)
values('12524824512','1985-11-19','José Barnabé da Silva',
'24456586','medio','solteiro', '8545828',
'coronel joaquim inácio','54230140','olinda', '56','');

insert into sigcar.cliente (cpf, `dataDeNascimento`,
`nomeCompleto`,cnh,`nivelEscolar`,`estadoCivil`,
rg,rua,cep,cidade,numero,complemento)
values('27192844403','2000-11-19','Rafael Matheus Danilo Barros',
'25456586','medio','casado', '399181726',
'Rua Taguá','50940-650','Recife', '387','Perto do Mercadinho');

insert into sigcar.cliente (cpf, `dataDeNascimento`,
`nomeCompleto`,cnh,`nivelEscolar`,`estadoCivil`,
rg,rua,cep,cidade,numero,complemento)
values('14348428433','1965-11-19','Fábio Renato Calebe Almada',
'25450086','superior','divorciado', '314948843',
'Rua da Jaqueira','52131-610','Recife', '903','Do lado da Boca de Fumo');

insert into sigcar.cliente (cpf, `dataDeNascimento`,
`nomeCompleto`,cnh,`nivelEscolar`,`estadoCivil`,
rg,rua,cep,cidade,numero,complemento)
values('55265280499','1995-11-25','Ricardo Sérgio Oliveira',
'25456005','php','casado', '444223794',
'Rua Severino Monteiro Braga','52171450','Recife', '905','Perto da venda de
seu Zé');

select *from cliente;

/*---------------------------------------inserindo cinco dados na
tabela venda ---------------------------------------*/
```

```sql
insert into sigcar.venda (`dataDaVenda`, `codCliente` ) values('2019-04-
13','1');

insert into sigcar.venda (`dataDaVenda`, `codCliente` ) values('2020-03-
15','2');

insert into sigcar.venda (`dataDaVenda`, `codCliente` ) values('2020-04-
10','3');

insert into sigcar.venda (`dataDaVenda`, `codCliente` ) values('2020-04-
02','4');

insert into sigcar.venda (`dataDaVenda`, `codCliente` ) values('2020-04-
02','5');


select *from venda;

/*--------------------------------------------inserindo cinco dados na
tabela fabricante --------------------------------------*/

insert into sigcar.fabricante(modelo, marca) values('ka 1.0 se ', 'ford');

insert into sigcar.fabricante(modelo, marca) values('ka 1.0 plus', 'ford');

insert into sigcar.fabricante(modelo, marca) values('ka 1.6 se', 'ford');

insert into sigcar.fabricante(modelo, marca) values('Uno 1.0', 'Fiat');

insert into sigcar.fabricante(modelo, marca) values('Uno 1.4', 'Fiat');

select *from sigcar.fabricante;

/*--------------------------------------------inserindo cinco dados na
tabela estoque --------------------------------------*/

insert into sigcar.estoque
(`valorDeCompra`,cor,placa,`valorDeVenda`,`rodasDeLogaLeve`,`bancoEmCoro`,
multimidia,`pinturaPerolada`, codVendas, `codFabricante`)
values('22000.52','preto',null,'44000.250','ar 19','modelo
esporte','lcd','sim','1','1');

insert into sigcar.estoque
(`valorDeCompra`,cor,placa,`valorDeVenda`,`rodasDeLogaLeve`,`bancoEmCoro`,
multimidia,`pinturaPerolada`, codVendas, `codFabricante`)
values('26000.52','branco',null,'64000.250','ar 22','modelo
adventure','led','não','2','2');

insert into sigcar.estoque
(`valorDeCompra`,cor,placa,`valorDeVenda`,`rodasDeLogaLeve`,`bancoEmCoro`,
multimidia,`pinturaPerolada`, codVendas, `codFabricante`)
values('23500.52','vermelho',null,'45652.250','ar
15','não','lcd','sim','3','3');

insert into sigcar.estoque
(`valorDeCompra`,cor,placa,`valorDeVenda`,`rodasDeLogaLeve`,`bancoEmCoro`,
multimidia,`pinturaPerolada`, codVendas, `codFabricante`)
values('22000.52','preto',null,'44000.250','ar 19','modelo
esporte','lcd','sim','4','4');
```

```sql
insert into sigcar.estoque
(`valorDeCompra`,cor,placa,`valorDeVenda`,`rodasDeLogaLeve`,`bancoEmCoro`,
multimidia,`pinturaPerolada`, codVendas, `codFabricante`)
values('22000.52','preto',null,'44000.250','ar 19','modelo
esporte','lcd','sim','5','5');

select *from estoque;



/*-------------------------------------------inserindo cinco dados na
tabela historico de compras --------------------------------------*/

insert into sigcar.historicodecompras
(`codCliente`,`quantidadeDeCarros`,`quantidadeDeAnaliseDeCredito`,
`quantidadeDeCreditoNegado`)
values('1', '1','1','1');

insert into sigcar.historicodecompras
(`codCliente`,`quantidadeDeCarros`,`quantidadeDeAnaliseDeCredito`,
`quantidadeDeCreditoNegado`)
values('2', '2','2','0');

insert into sigcar.historicodecompras
(`codCliente`,`quantidadeDeCarros`,`quantidadeDeAnaliseDeCredito`,
`quantidadeDeCreditoNegado`)
values('3', '1','1','1');

insert into sigcar.historicodecompras
(`codCliente`,`quantidadeDeCarros`,`quantidadeDeAnaliseDeCredito`,
`quantidadeDeCreditoNegado`)
values('4', '1','1','1');

insert into sigcar.historicodecompras
(`codCliente`,`quantidadeDeCarros`,`quantidadeDeAnaliseDeCredito`,
`quantidadeDeCreditoNegado`)
values('5', '0','6','6');

select *from sigcar.historicodecompras h;
/*-------------------------------------------inserindo cinco dados na
tabela relação 3 --------------------------------------*/

insert into relacao_3 (`codVenda`, `codUsuario`) values('1','1');

insert into relacao_3 (`codVenda`, `codUsuario`) values('2','2');

insert into relacao_3 (`codVenda`, `codUsuario`) values('3','3');

insert into relacao_3 (`codVenda`, `codUsuario`) values('4','4');

insert into relacao_3 (`codVenda`, `codUsuario`) values('5','5');

select *from sigcar.relacao_3;
```

2.5.3. Os relatórios que foram solicitados e os respectivos comandos Select.

```sql
/*-------------------- Relatorios Selects---------------------------------
--------------*/

/*1 -Listar os Fabricantes, no caso como não especificou se deveria repetir
ou não por para ficar mais limpo
 * resolvir usar o DISTINCT*/

select distinct fabricante.marca as Nome_dos_Fabricantes from fabricante;

/*2 - Informar quantidade de produtos no estoque por modelo do fabricante*/

select distinct f.modelo as Modelo_do_Fabricante, count(e.`codFabricante`)as
Quantidade_por_Modelo
from estoque e inner join fabricante f on e.id = f.id
group by modelo;




/*3 - Listar os nomes dos clientes, cnh e dta de nascimento.  OK*/

select cliente.nomeCompleto as Nome_do_Cliente ,cliente.cnh as CNH ,
cliente.dataDeNascimento as Data_de_Nascimento from sigcar.cliente;

/*4 - Listar a placa, cor, modelo e valor de venda do estoque */

select estoque.placa as Placa, estoque.cor as Cor, estoque.valorDeVenda as
Valor_de_Venda
from sigcar.estoque;

/* 5 - Listar o histórico de compras do cliente chamado: José Barnabé da
Silva
ok */
select c.`nomeCompleto` as Nome_do_Cliente, h.* from sigcar.cliente c
right join sigcar.historicodecompras h on c.id = h.`codCliente`
where c.`nomeCompleto` = 'José Barnabé da Silva';


select *from sigcar.estoque;
```
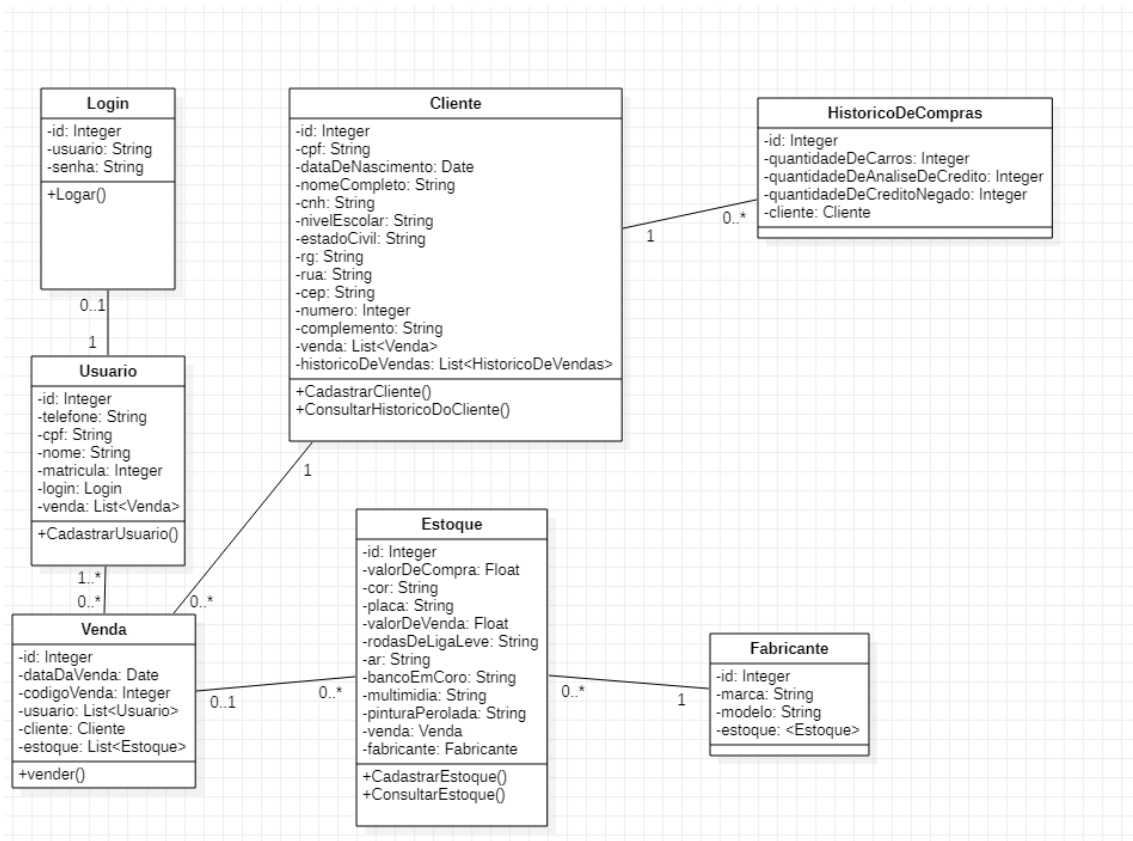
3. Análise e Design

3.1. Diagrama de Classes
Diagrama de Classe básica utilizando a ferramenta StarUML.

4. Arquitetura do Software

4.1. Padrão de projeto

Deve ser adotado o padrão MVC (Model-View-Controller) esse modelo separa foca no reuso do código e a separação em três camadas.

4.1.0 Model

No Model ficou as class: Cliente, Estoque, Fabricante, HistoricoDeCompras, Login, Usuario e Venda.

4.1.1 View

No View ficou as class: CadastoCliente, CadastroEstoque, CadastroUsuario, ConsultarCliente, ConsultarEstoque, Venda, Index, Login.

4.2. Protótipo

Deverão ser apresentadas cada uma das telas do sistema para cada uma das camadas.

4.2.1 Telas e classes da camada View

4.2.1.1 Tela de Login onde o usuário deve inserir usuário e senha para ser redirecionado para tela principal se o user e password estiverem corretos.
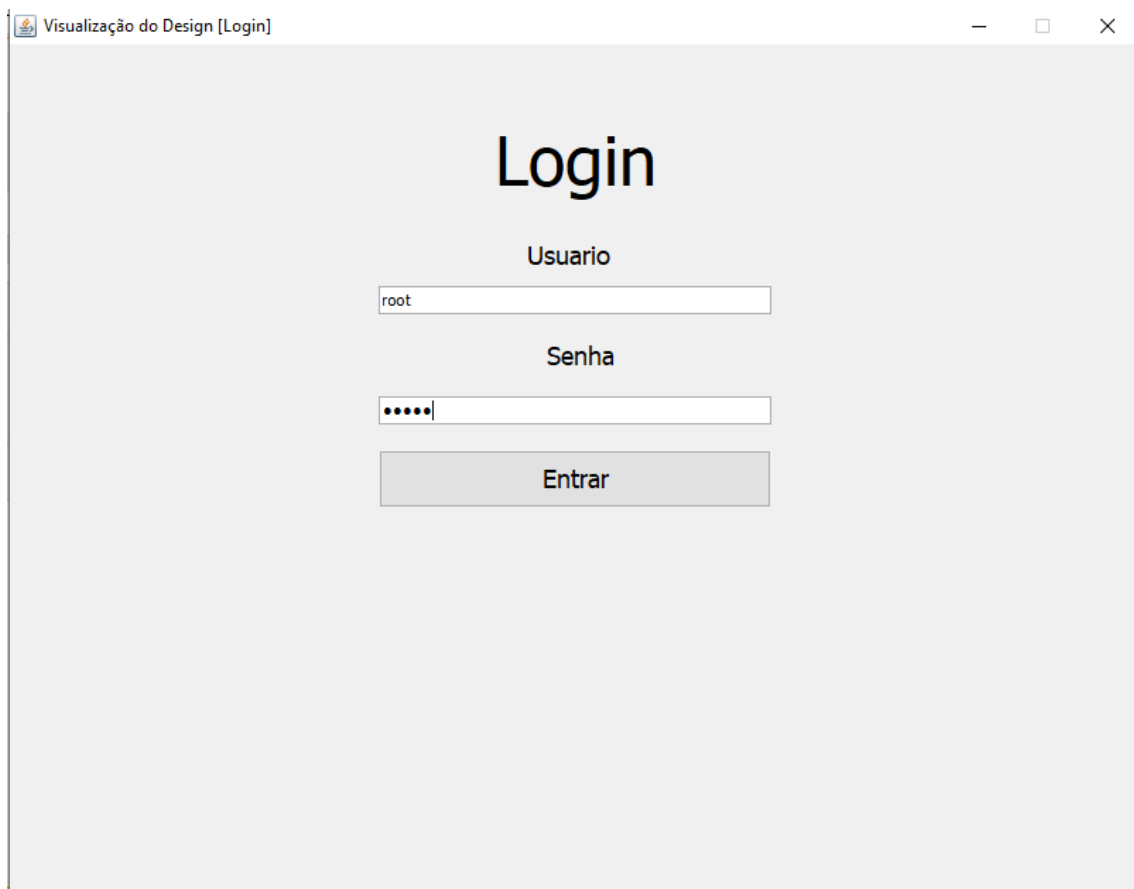
/*

 * To change this license header, choose License Headers in Project Properties.

 * To change this template file, choose Tools | Templates

 * and open the template in the editor.

 */

package view;

/**

```java
 *
 * @author PICHAU
 */
public class Login extends javax.swing.JFrame {

    /**
     * Creates new form Login
     */
    public Login() {
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize the
form.
     * WARNING: Do NOT modify this code. The content of this method is
always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jButtonEntrar = new javax.swing.JButton();
        jLabelUsuario = new javax.swing.JLabel();
        jTextFieldUsuario = new javax.swing.JTextField();
        jLabelSenha = new javax.swing.JLabel();
        jPasswordFieldsenha = new javax.swing.JPasswordField();


setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE_ON_CLOSE);
```

```java
        setResizable(false);


        jLabel1.setFont(new java.awt.Font("Tahoma", 0, 48)); // NOI18N
        jLabel1.setText("Login");


        jButtonEntrar.setFont(new java.awt.Font("Tahoma", 0, 18)); //
NOI18N
        jButtonEntrar.setText("Entrar");
        jButtonEntrar.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButtonEntrarActionPerformed(evt);
            }
        });


        jLabelUsuario.setFont(new java.awt.Font("Tahoma", 0, 18)); //
NOI18N
        jLabelUsuario.setText("Usuario");
        jLabelUsuario.setToolTipText("");


        jTextFieldUsuario.setToolTipText("Usuario");


        jLabelSenha.setFont(new java.awt.Font("Tahoma", 0, 18)); //
NOI18N
        jLabelSenha.setText("Senha");
        jLabelSenha.setToolTipText("");


        jPasswordFieldsenha.setToolTipText("senha");
        jPasswordFieldsenha.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jPasswordFieldsenhaActionPerformed(evt);
            }
```

```java
        });

        javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(343, 343, 343)
                .addComponent(jLabel1)
                .addContainerGap(342, Short.MAX_VALUE))
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                .addComponent(jLabelUsuario)
                .addGap(375, 375, 375))
            .addGroup(layout.createSequentialGroup()
                .addGap(380, 380, 380)
                .addComponent(jLabelSenha)
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
            .addGroup(layout.createSequentialGroup()
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                    .addComponent(jTextFieldUsuario)
                    .addComponent(jPasswordFieldsenha)
                    .addComponent(jButtonEntrar,
javax.swing.GroupLayout.DEFAULT_SIZE, 278, Short.MAX_VALUE))
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
```

```
        );
        layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(52, 52, 52)
                .addComponent(jLabel1)
                .addGap(28, 28, 28)
                .addComponent(jLabelUsuario)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATE
D)
                .addComponent(jTextFieldUsuario,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
                .addComponent(jLabelSenha)
                .addGap(18, 18, 18)
                .addComponent(jPasswordFieldsenha,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
                .addComponent(jButtonEntrar,
javax.swing.GroupLayout.PREFERRED_SIZE, 41,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(272, Short.MAX_VALUE))
        );

        pack();
        setLocationRelativeTo(null);
    }// </editor-fold>
```

```java
    private void
jButtonEntrarActionPerformed(java.awt.event.ActionEvent evt) {

        // TODO add your handling code here:

    }


    private void
jPasswordFieldsenhaActionPerformed(java.awt.event.ActionEvent evt) {

        // TODO add your handling code here:

    }


    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc=" Look and feel
setting code (optional) ">
        /* If Nimbus (introduced in Java SE 6) is not available, stay with
the default look and feel.
         * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
         */
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {
```

```java
            java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logg
ing.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

            java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logg
ing.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {

            java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logg
ing.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

            java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logg
ing.Level.SEVERE, null, ex);
        }
        //</editor-fold>


        /* Create and display the form */
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new Login().setVisible(true);
            }
        });
    }


    // Variables declaration - do not modify
    private javax.swing.JButton jButtonEntrar;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabelSenha;
    private javax.swing.JLabel jLabelUsuario;
    private javax.swing.JPasswordField jPasswordFieldsenha;
    private javax.swing.JTextField jTextFieldUsuario;
    // End of variables declaration
```
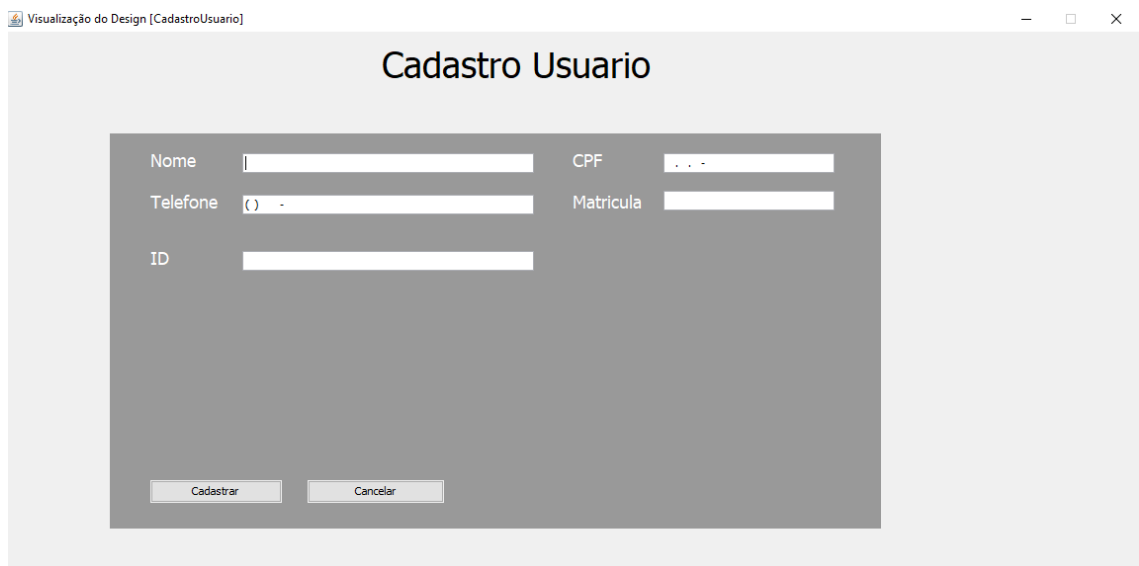
}

        4.2.1.2 Cadastro do usuário, onde o admin deve entrar e cadastrar o
usuário que poderá utilizar o sistema e realizar novos cadastros entre os de
cliente e dependendo da autorização de usuário também.

        /*

         * To change this license header, choose License Headers in Project
Properties.

         * To change this template file, choose Tools | Templates

         * and open the template in the editor.

         */

        package view;

        /**

         *

         * @author PICHAU

         */

        public class CadastroUsuario extends javax.swing.JFrame {

            /**

             * Creates new form CadastroUsuario

```java
 */
public CadastroUsuario() {
    initComponents();
}


/**
 * This method is called from within the constructor to initialize the
form.
 * WARNING: Do NOT modify this code. The content of this method is
always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jLabelCadastroUsuario = new javax.swing.JLabel();
    jPanel1 = new javax.swing.JPanel();
    jLabelNome = new javax.swing.JLabel();
    jTextFieldNome = new javax.swing.JTextField();
    jLabelCPF = new javax.swing.JLabel();
    jLabelId = new javax.swing.JLabel();
    jTextFieldId = new javax.swing.JTextField();
    Telefone = new javax.swing.JLabel();
    jLabelMatricula = new javax.swing.JLabel();
    jTextFieldMatricula = new javax.swing.JTextField();
    jButtonCadastrar = new javax.swing.JButton();
    jButtonCancelar = new javax.swing.JButton();
    jFormattedTextFieldCPF = new javax.swing.JFormattedTextField();
    jFormattedTextFieldTelefone = new
javax.swing.JFormattedTextField();
```

```java
setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE_ON_CLO
SE);

        setResizable(false);


        jLabelCadastroUsuario.setFont(new java.awt.Font("Tahoma", 0,
36)); // NOI18N
        jLabelCadastroUsuario.setText("Cadastro Usuario");


        jPanel1.setBackground(new java.awt.Color(153, 153, 153));
        jPanel1.setPreferredSize(new java.awt.Dimension(780, 400));


        jLabelNome.setFont(new java.awt.Font("Tahoma", 0, 18)); //
NOI18N
        jLabelNome.setForeground(new java.awt.Color(255, 255, 255));
        jLabelNome.setText("Nome");



        jTextFieldNome.setToolTipText("Nome");


        jLabelCPF.setFont(new java.awt.Font("Tahoma", 0, 18)); //
NOI18N
        jLabelCPF.setForeground(new java.awt.Color(255, 255, 255));
        jLabelCPF.setText("CPF");


        jLabelId.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
        jLabelId.setForeground(new java.awt.Color(255, 255, 255));
        jLabelId.setText("ID");


        jTextFieldId.setToolTipText("Id");
        jTextFieldId.addActionListener(new java.awt.event.ActionListener()
{
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jTextFieldIdActionPerformed(evt);
```

```java
            }
        });


        Telefone.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
        Telefone.setForeground(new java.awt.Color(255, 255, 255));
        Telefone.setText("Telefone");


        jLabelMatricula.setFont(new java.awt.Font("Tahoma", 0, 18)); //
NOI18N
        jLabelMatricula.setForeground(new java.awt.Color(255, 255,
255));
        jLabelMatricula.setText("Matricula");


        jTextFieldMatricula.setToolTipText("Matricula");
        jTextFieldMatricula.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jTextFieldMatriculaActionPerformed(evt);
            }
        });


        jButtonCadastrar.setText("Cadastrar");
        jButtonCadastrar.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButtonCadastrarActionPerformed(evt);
            }
        });


        jButtonCancelar.setText("Cancelar");
        jButtonCancelar.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```java
                jButtonCancelarActionPerformed(evt);

            }

        });


        try {

            jFormattedTextFieldCPF.setFormatterFactory(new
javax.swing.text.DefaultFormatterFactory(new
javax.swing.text.MaskFormatter("###.###.###-##")));

        } catch (java.text.ParseException ex) {

            ex.printStackTrace();

        }


        try {

            jFormattedTextFieldTelefone.setFormatterFactory(new
javax.swing.text.DefaultFormatterFactory(new
javax.swing.text.MaskFormatter("(##) # ####-####")));

        } catch (java.text.ParseException ex) {

            ex.printStackTrace();

        }

        jFormattedTextFieldTelefone.setToolTipText("Telefone");

        jFormattedTextFieldTelefone.addActionListener(new
java.awt.event.ActionListener() {

            public void actionPerformed(java.awt.event.ActionEvent evt) {

                jFormattedTextFieldTelefoneActionPerformed(evt);

            }

        });


        javax.swing.GroupLayout jPanel1Layout = new
javax.swing.GroupLayout(jPanel1);

        jPanel1.setLayout(jPanel1Layout);

        jPanel1Layout.setHorizontalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)
```

```
                    .addGroup(jPanel1Layout.createSequentialGroup()

                        .addGap(41, 41, 41)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.LEADING)

                            .addGroup(jPanel1Layout.createSequentialGroup()

                                .addComponent(jButtonCadastrar,
javax.swing.GroupLayout.PREFERRED_SIZE, 133,
javax.swing.GroupLayout.PREFERRED_SIZE)

                                .addGap(26, 26, 26)

                                .addComponent(jButtonCancelar,
javax.swing.GroupLayout.PREFERRED_SIZE, 138,
javax.swing.GroupLayout.PREFERRED_SIZE)

                                .addGap(0, 0, Short.MAX_VALUE))
                            .addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.LEADING)

                                    .addComponent(jLabelNome)

                                    .addComponent(jLabelId)

                                    .addComponent(Telefone))

                                .addGap(25, 25, 25)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.LEADING, false)

                                    .addComponent(jTextFieldNome)

                                    .addComponent(jTextFieldId)

                                    .addComponent(jFormattedTextFieldTelefone,
javax.swing.GroupLayout.DEFAULT_SIZE, 295, Short.MAX_VALUE))

                                .addGap(39, 39, 39)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.LEADING)

                                    .addComponent(jLabelMatricula)

                                    .addComponent(jLabelCPF))

                                .addGap(22, 22, 22)
```

```java
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.LEADING, false)
                        .addComponent(jTextFieldMatricula)
                        .addComponent(jFormattedTextFieldCPF,
javax.swing.GroupLayout.DEFAULT_SIZE, 173, Short.MAX_VALUE))
                    .addContainerGap(47, Short.MAX_VALUE))))
        );
        jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(16, 16, 16)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.BASELINE)
                    .addComponent(jLabelNome)
                    .addComponent(jTextFieldNome,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jLabelCPF)
                    .addComponent(jFormattedTextFieldCPF,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.LEADING)
                    .addComponent(jTextFieldMatricula,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.BASELINE)
```

```java
                    .addComponent(Telefone)

                    .addComponent(jLabelMatricula)

                    .addComponent(jFormattedTextFieldTelefone,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addGap(33, 33, 33)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.BASELINE)

                    .addComponent(jTextFieldId,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

                    .addComponent(jLabelId))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
212, Short.MAX_VALUE)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.BASELINE)

                    .addComponent(jButtonCadastrar)

                    .addComponent(jButtonCancelar))
                .addGap(26, 26, 26))
        );


        javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.L
EADING)
                    .addGroup(layout.createSequentialGroup()
```

```java
                .addGap(107, 107, 107)
                .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGroup(layout.createSequentialGroup()
                    .addGap(382, 382, 382)
                    .addComponent(jLabelCadastroUsuario)))
                .addContainerGap(261, Short.MAX_VALUE))
        );
        layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jLabelCadastroUsuario)
                .addGap(48, 48, 48)
                .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(409, Short.MAX_VALUE))
        );

        pack();
        setLocationRelativeTo(null);
    }// </editor-fold>


    private void
jTextFieldMatriculaActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }
```

```java
        private void jTextFieldIdActionPerformed(java.awt.event.ActionEvent evt) {
            // TODO add your handling code here:
        }


        private void jButtonCadastrarActionPerformed(java.awt.event.ActionEvent evt) {
            // TODO add your handling code here:
        }


        private void jButtonCancelarActionPerformed(java.awt.event.ActionEvent evt) {
            // TODO add your handling code here:
        }


        private void jFormattedTextFieldTelefoneActionPerformed(java.awt.event.ActionEvent evt) {
            // TODO add your handling code here:
        }


        /**
         * @param args the command line arguments
         */
        public static void main(String args[]) {
            /* Set the Nimbus look and feel */
            //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
            /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
             * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
             */
            try {
```

```java
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(CadastroUsuario.class.getName()).log(ja
va.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(CadastroUsuario.class.getName()).log(ja
va.util.logging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(CadastroUsuario.class.getName()).log(ja
va.util.logging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(CadastroUsuario.class.getName()).log(ja
va.util.logging.Level.SEVERE, null, ex);
        }
        //</editor-fold>


        /* Create and display the form */
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new CadastroUsuario().setVisible(true);
            }
        });
    }
```
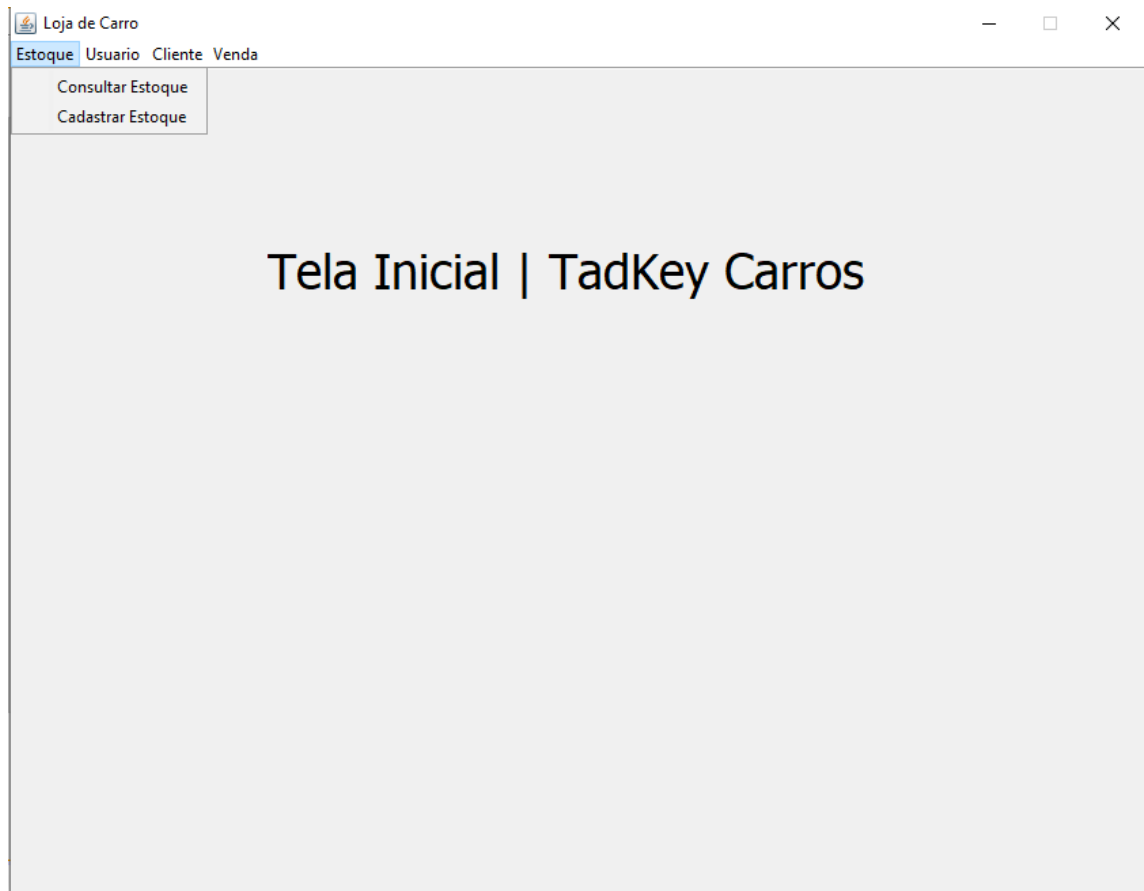
```java
    // Variables declaration - do not modify
    private javax.swing.JLabel Telefone;
    private javax.swing.JButton jButtonCadastrar;
    private javax.swing.JButton jButtonCancelar;
    private javax.swing.JFormattedTextField jFormattedTextFieldCPF;
    private javax.swing.JFormattedTextField jFormattedTextFieldTelefone;
    private javax.swing.JLabel jLabelCPF;
    private javax.swing.JLabel jLabelCadastroUsuario;
    private javax.swing.JLabel jLabelId;
    private javax.swing.JLabel jLabelMatricula;
    private javax.swing.JLabel jLabelNome;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JTextField jTextFieldId;
    private javax.swing.JTextField jTextFieldMatricula;
    private javax.swing.JTextField jTextFieldNome;
    // End of variables declaration
}
```

4.2.1.3 Tela inicial onde o usuário deve ser direcionado depois de realizar o login, nessa tela ele encontra as demais funções do sistema.


```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package view;


/**
 *
 * @author PICHAU
 */
public class Index extends javax.swing.JFrame {
```

```java
    /**
     * Creates new form Index
     */
    public Index() {
        initComponents();
    }


    /**
     * This method is called from within the constructor to initialize the
form.
     * WARNING: Do NOT modify this code. The content of this method is
always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {


        jPanelPrincipal = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
        jMenuBarIndex = new javax.swing.JMenuBar();
        jMenuEstoque = new javax.swing.JMenu();
        jMenuItemConsultarEstoque = new javax.swing.JMenuItem();
        jMenuItemCadastrarEstoque = new javax.swing.JMenuItem();
        jMenu2 = new javax.swing.JMenu();
        jMenuItemCadastrarUsuario = new javax.swing.JMenuItem();
        jMenu1 = new javax.swing.JMenu();
        jMenuItemCadastrarCliente = new javax.swing.JMenuItem();
        jMenuItemHistoricoDoCliente = new javax.swing.JMenuItem();
        jMenu3 = new javax.swing.JMenu();
```

```java
setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setTitle("Loja de Carro");
        setBackground(new java.awt.Color(255, 102, 102));
        setResizable(false);

        jLabel1.setBackground(new java.awt.Color(255, 153, 153));
        jLabel1.setFont(new java.awt.Font("Tahoma", 0, 36)); // NOI18N
        jLabel1.setText("Tela Inicial | TadKey Carros");

        javax.swing.GroupLayout jPanelPrincipalLayout = new
javax.swing.GroupLayout(jPanelPrincipal);
        jPanelPrincipal.setLayout(jPanelPrincipalLayout);
        jPanelPrincipalLayout.setHorizontalGroup(

jPanelPrincipalLayout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanelPrincipalLayout.createSequentialGroup()
                .addContainerGap(138, Short.MAX_VALUE)
                .addComponent(jLabel1)
                .addGap(113, 113, 113))
        );
        jPanelPrincipalLayout.setVerticalGroup(

jPanelPrincipalLayout.createParallelGroup(javax.swing.GroupLayout.Alignme
nt.LEADING)
            .addGroup(jPanelPrincipalLayout.createSequentialGroup()
                .addGap(69, 69, 69)
                .addComponent(jLabel1)
                .addContainerGap(330, Short.MAX_VALUE))
        );

        jMenuEstoque.setText("Estoque");
```

```java
        jMenuItemConsultarEstoque.setText("Consultar Estoque");
        jMenuEstoque.add(jMenuItemConsultarEstoque);


        jMenuItemCadastrarEstoque.setText("Cadastrar Estoque");
        jMenuEstoque.add(jMenuItemCadastrarEstoque);


        jMenuBarIndex.add(jMenuEstoque);


        jMenu2.setText("Usuario");


        jMenuItemCadastrarUsuario.setText("Cadastrar Usuario");
        jMenu2.add(jMenuItemCadastrarUsuario);


        jMenuBarIndex.add(jMenu2);


        jMenu1.setText("Cliente");


        jMenuItemCadastrarCliente.setText("Cadastrar Cliente");
        jMenu1.add(jMenuItemCadastrarCliente);


        jMenuItemHistoricoDoCliente.setText("Histórico do Cliente");
        jMenuItemHistoricoDoCliente.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jMenuItemHistoricoDoClienteActionPerformed(evt);
            }
        });
        jMenu1.add(jMenuItemHistoricoDoCliente);


        jMenuBarIndex.add(jMenu1);
```

```java
        jMenu3.setText("Venda");

        jMenuBarIndex.add(jMenu3);


        setJMenuBar(jMenuBarIndex);


        javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());

        getContentPane().setLayout(layout);

        layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addGroup(layout.createSequentialGroup()

                .addGap(51, 51, 51)

                .addComponent(jPanelPrincipal,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

                .addContainerGap(93, Short.MAX_VALUE))

        );

        layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addGroup(layout.createSequentialGroup()

                .addGap(58, 58, 58)

                .addComponent(jPanelPrincipal,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

                .addContainerGap(108, Short.MAX_VALUE))

        );


        pack();

        setLocationRelativeTo(null);
```

```java
    }// </editor-fold>


    private void
jMenuItemHistoricoDoClienteActionPerformed(java.awt.event.ActionEvent
evt) {

        // TODO add your handling code here:

    }


    /**

     * @param args the command line arguments

     */

    public static void main(String args[]) {

        /* Set the Nimbus look and feel */

        //<editor-fold defaultstate="collapsed" desc=" Look and feel
setting code (optional) ">

        /* If Nimbus (introduced in Java SE 6) is not available, stay with
the default look and feel.

         * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

         */

        try {

            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {

                if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());

                    break;

                }

            }

        } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(Index.class.getName()).log(java.util.logg
ing.Level.SEVERE, null, ex);

        } catch (InstantiationException ex) {
```

```java
java.util.logging.Logger.getLogger(Index.class.getName()).log(java.util.logg
ing.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Index.class.getName()).log(java.util.logg
ing.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Index.class.getName()).log(java.util.logg
ing.Level.SEVERE, null, ex);
        }
        //</editor-fold>


        /* Create and display the form */
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new Index().setVisible(true);
            }
        });
    }


    // Variables declaration - do not modify
    private javax.swing.JLabel jLabel1;
    private javax.swing.JMenu jMenu1;
    private javax.swing.JMenu jMenu2;
    private javax.swing.JMenu jMenu3;
    private javax.swing.JMenuBar jMenuBarIndex;
    private javax.swing.JMenu jMenuEstoque;
    private javax.swing.JMenuItem jMenuItemCadastrarCliente;
    private javax.swing.JMenuItem jMenuItemCadastrarEstoque;
    private javax.swing.JMenuItem jMenuItemCadastrarUsuario;
    private javax.swing.JMenuItem jMenuItemConsultarEstoque;
```

```
        private javax.swing.JMenuItem jMenuItemHistoricoDoCliente;

        private javax.swing.JPanel jPanelPrincipal;

        // End of variables declaration

    }
```

4.2.1.4 Tela de Cadastro de Estoque, nesta tela o usuário deve preencher os campos e cadastrar o veiculo.


```
    /*

     * To change this license header, choose License Headers in Project
Properties.

     * To change this template file, choose Tools | Templates

     * and open the template in the editor.

     */

    package view;


    /**
```

```java
 *
 * @author PICHAU
 */
public class CadastroEstoque extends javax.swing.JFrame {

    /**
     * Creates new form CadastroEstoque
     */
    public CadastroEstoque() {
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize the
form.
     * WARNING: Do NOT modify this code. The content of this method is
always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jPanelCadastroEstoque = new javax.swing.JPanel();
        jLabelId = new javax.swing.JLabel();
        jTextFieldId = new javax.swing.JTextField();
        jLabelValorDeCompra = new javax.swing.JLabel();
        jTextFieldValorDeCompra = new javax.swing.JTextField();
        jLabelCor = new javax.swing.JLabel();
        jLabelPlaca = new javax.swing.JLabel();
        jTextFieldPlaca = new javax.swing.JTextField();
```

```java
jButtonCadastrar = new javax.swing.JButton();

jLabelValorDaVenda = new javax.swing.JLabel();

jTextFieldValorDaVenda = new javax.swing.JTextField();

jLabelRodasDeLigaLeve = new javax.swing.JLabel();

jComboBoxRodasDeLigaLeve = new javax.swing.JComboBox<>();

jLabelMultimidia = new javax.swing.JLabel();

jComboBoxMultimidia = new javax.swing.JComboBox<>();

jLabelAr = new javax.swing.JLabel();

jComboBoxAr = new javax.swing.JComboBox<>();

jLabelBancoEmCouro = new javax.swing.JLabel();

jComboBoxBancoEmCouro = new javax.swing.JComboBox<>();

jComboBoxCor = new javax.swing.JComboBox<>();

jLabelPinturaPerolada = new javax.swing.JLabel();

jComboBoxPinturaPerolada = new javax.swing.JComboBox<>();

jButtonCancelar = new javax.swing.JButton();

jButtonConsultar = new javax.swing.JButton();


setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE_ON_CLOSE);

setTitle("Cadastro do Estoque");

setResizable(false);


jLabel1.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N

jLabel1.setText("Cadastro Estoque");


jPanelCadastroEstoque.setBackground(new java.awt.Color(102, 102, 102));

jPanelCadastroEstoque.setPreferredSize(new java.awt.Dimension(780, 400));


jLabelId.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabelId.setForeground(new java.awt.Color(255, 255, 255));
```

```java
        jLabelId.setText("Id");

        jTextFieldId.setToolTipText("Informe o Id do Produto");
        jTextFieldId.addActionListener(new java.awt.event.ActionListener()
{
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jTextFieldIdActionPerformed(evt);
            }
        });

        jLabelValorDeCompra.setFont(new java.awt.Font("Tahoma", 0,
18)); // NOI18N
        jLabelValorDeCompra.setForeground(new java.awt.Color(255, 255,
255));
        jLabelValorDeCompra.setText("Valor de Compra");

        jTextFieldValorDeCompra.setToolTipText("Valor de Compra");
        jTextFieldValorDeCompra.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jTextFieldValorDeCompraActionPerformed(evt);
            }
        });

        jLabelCor.setFont(new java.awt.Font("Tahoma", 0, 18)); //
NOI18N
        jLabelCor.setForeground(new java.awt.Color(255, 255, 255));
        jLabelCor.setText("Cor");
        jLabelCor.setToolTipText("");

        jLabelPlaca.setFont(new java.awt.Font("Tahoma", 0, 18)); //
NOI18N
        jLabelPlaca.setForeground(new java.awt.Color(255, 255, 255));
```

```java
        jLabelPlaca.setText("Placa");


        jTextFieldPlaca.setToolTipText("Placa do Carro");


        jButtonCadastrar.setText("Cadastrar");
        jButtonCadastrar.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButtonCadastrarActionPerformed(evt);
            }
        });


        jLabelValorDaVenda.setFont(new java.awt.Font("Tahoma", 0, 18));
// NOI18N
        jLabelValorDaVenda.setForeground(new java.awt.Color(255, 255,
255));
        jLabelValorDaVenda.setText("Valor Da Venda");


        jTextFieldValorDaVenda.setToolTipText("Valor da Venda");
        jTextFieldValorDaVenda.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jTextFieldValorDaVendaActionPerformed(evt);
            }
        });


        jLabelRodasDeLigaLeve.setFont(new java.awt.Font("Tahoma", 0,
18)); // NOI18N
        jLabelRodasDeLigaLeve.setForeground(new java.awt.Color(255,
255, 255));
        jLabelRodasDeLigaLeve.setText("Rodas de Liga Leve");
```

```java
        jComboBoxRodasDeLigaLeve.setModel(new
javax.swing.DefaultComboBoxModel<>(new String[] { "Sem rodas", "Com
Rodas 15", "Com Rodas 17", "Com rodas19" }));

        jComboBoxRodasDeLigaLeve.setToolTipText("");


        jLabelMultimidia.setFont(new java.awt.Font("Tahoma", 0, 18)); //
NOI18N

        jLabelMultimidia.setForeground(new java.awt.Color(255, 255,
255));

        jLabelMultimidia.setText("Multimidia");


        jComboBoxMultimidia.setModel(new
javax.swing.DefaultComboBoxModel<>(new String[] { "Sim", "Não" }));

        jComboBoxMultimidia.addActionListener(new
java.awt.event.ActionListener() {

            public void actionPerformed(java.awt.event.ActionEvent evt) {

                jComboBoxMultimidiaActionPerformed(evt);

            }

        });


        jLabelAr.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

        jLabelAr.setForeground(new java.awt.Color(255, 255, 255));

        jLabelAr.setText("Ar");


        jComboBoxAr.setModel(new
javax.swing.DefaultComboBoxModel<>(new String[] { "Sem ar", "Com ar",
"Digital", "DualZone" }));


        jLabelBancoEmCouro.setFont(new java.awt.Font("Tahoma", 0,
18)); // NOI18N

        jLabelBancoEmCouro.setForeground(new java.awt.Color(255, 255,
255));

        jLabelBancoEmCouro.setText("Banco em Couro");
```

```java
jComboBoxBancoEmCouro.setModel(new
javax.swing.DefaultComboBoxModel<>(new String[] { "Sem couro", "Com
Couro", "Com Couro cor branco" }));

jComboBoxBancoEmCouro.addActionListener(new
java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        jComboBoxBancoEmCouroActionPerformed(evt);

    }

});


jComboBoxCor.setModel(new
javax.swing.DefaultComboBoxModel<>(new String[] { "Branco",
"Vermelho", "Preto", "Amarelo" }));

jComboBoxCor.addActionListener(new
java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        jComboBoxCorActionPerformed(evt);

    }

});


jLabelPinturaPerolada.setFont(new java.awt.Font("Tahoma", 0,
18)); // NOI18N

jLabelPinturaPerolada.setForeground(new java.awt.Color(255, 255,
255));

jLabelPinturaPerolada.setText("Pintura Perolada");


jComboBoxPinturaPerolada.setModel(new
javax.swing.DefaultComboBoxModel<>(new String[] { "Sim", "Não" }));


jButtonCancelar.setText("Cancelar");

jButtonCancelar.addActionListener(new
java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        jButtonCancelarActionPerformed(evt);

    }
```

```java
        });


        jButtonConsultar.setText("Consultar");


        javax.swing.GroupLayout jPanelCadastroEstoqueLayout = new
javax.swing.GroupLayout(jPanelCadastroEstoque);
        jPanelCadastroEstoque.setLayout(jPanelCadastroEstoqueLayout);
        jPanelCadastroEstoqueLayout.setHorizontalGroup(

jPanelCadastroEstoqueLayout.createParallelGroup(javax.swing.GroupLayout
.Alignment.TRAILING)
            .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
jPanelCadastroEstoqueLayout.createSequentialGroup()
                .addGap(25, 25, 25)

.addGroup(jPanelCadastroEstoqueLayout.createParallelGroup(javax.swing.G
roupLayout.Alignment.LEADING)

.addGroup(jPanelCadastroEstoqueLayout.createSequentialGroup()

.addGroup(jPanelCadastroEstoqueLayout.createParallelGroup(javax.swing.G
roupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanelCadastroEstoqueLayout.createSequentialGroup()
                        .addComponent(jLabelAr)

                        .addGap(10, 10, 10)

                        .addComponent(jComboBoxAr,
javax.swing.GroupLayout.PREFERRED_SIZE, 135,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGroup(jPanelCadastroEstoqueLayout.createParallelGroup(javax.swing.G
roupLayout.Alignment.LEADING, false)

.addGroup(jPanelCadastroEstoqueLayout.createSequentialGroup()
                            .addComponent(jLabelId)
```

```
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                                        .addComponent(jTextFieldId,
javax.swing.GroupLayout.PREFERRED_SIZE, 141,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGroup(jPanelCadastroEstoqueLayout.createSequentialGroup()
                                        .addComponent(jLabelPlaca)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                                        .addComponent(jTextFieldPlaca))))
                            .addGap(29, 29, 29)

.addGroup(jPanelCadastroEstoqueLayout.createParallelGroup(javax.swing.G
roupLayout.Alignment.LEADING)
                                .addComponent(jLabelValorDaVenda)
                                .addComponent(jLabelValorDeCompra)
                                .addComponent(jLabelBancoEmCouro))
                            .addGap(18, 18, 18)

.addGroup(jPanelCadastroEstoqueLayout.createParallelGroup(javax.swing.G
roupLayout.Alignment.LEADING)

.addGroup(jPanelCadastroEstoqueLayout.createSequentialGroup()
                                    .addComponent(jTextFieldValorDeCompra,
javax.swing.GroupLayout.PREFERRED_SIZE, 112,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                    .addGap(0, 0, Short.MAX_VALUE))

.addGroup(jPanelCadastroEstoqueLayout.createSequentialGroup()

.addGroup(jPanelCadastroEstoqueLayout.createParallelGroup(javax.swing.G
roupLayout.Alignment.TRAILING, false)
                                    .addComponent(jComboBoxBancoEmCouro, 0,
1, Short.MAX_VALUE)
                                    .addComponent(jTextFieldValorDaVenda,
javax.swing.GroupLayout.DEFAULT_SIZE, 112, Short.MAX_VALUE))
```

```
                            .addGap(38, 38, 38)

.addGroup(jPanelCadastroEstoqueLayout.createParallelGroup(javax.swing.G
roupLayout.Alignment.LEADING)

.addGroup(jPanelCadastroEstoqueLayout.createSequentialGroup()
                            .addComponent(jLabelCor)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATE
D)
                            .addComponent(jComboBoxCor, 0,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

.addGroup(jPanelCadastroEstoqueLayout.createSequentialGroup()
                            .addComponent(jLabelRodasDeLigaLeve)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(jComboBoxRodasDeLigaLeve, 0, 97, Short.MAX_VALUE))

.addGroup(jPanelCadastroEstoqueLayout.createSequentialGroup()
                            .addComponent(jLabelMultimidia)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATE
D)
                            .addComponent(jComboBoxMultimidia, 0,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))))))

.addGroup(jPanelCadastroEstoqueLayout.createSequentialGroup()

.addGroup(jPanelCadastroEstoqueLayout.createParallelGroup(javax.swing.G
roupLayout.Alignment.LEADING)

.addGroup(jPanelCadastroEstoqueLayout.createSequentialGroup()
                            .addComponent(jLabelPinturaPerolada)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATE
D)
```

```
                                    .addComponent(jComboBoxPinturaPerolada,
javax.swing.GroupLayout.PREFERRED_SIZE, 109,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGroup(jPanelCadastroEstoqueLayout.createSequentialGroup()

                                        .addComponent(jButtonCadastrar,
javax.swing.GroupLayout.PREFERRED_SIZE, 138,
javax.swing.GroupLayout.PREFERRED_SIZE)

                                        .addGap(18, 18, 18)

                                        .addComponent(jButtonCancelar,
javax.swing.GroupLayout.PREFERRED_SIZE, 123,
javax.swing.GroupLayout.PREFERRED_SIZE)

                                        .addGap(26, 26, 26)

                                        .addComponent(jButtonConsultar,
javax.swing.GroupLayout.PREFERRED_SIZE, 139,
javax.swing.GroupLayout.PREFERRED_SIZE)))

                            .addGap(0, 0, Short.MAX_VALUE)))

                    .addContainerGap())

            );

            jPanelCadastroEstoqueLayout.setVerticalGroup(

jPanelCadastroEstoqueLayout.createParallelGroup(javax.swing.GroupLayout
.Alignment.LEADING)

.addGroup(jPanelCadastroEstoqueLayout.createSequentialGroup()

                    .addGap(26, 26, 26)

.addGroup(jPanelCadastroEstoqueLayout.createParallelGroup(javax.swing.G
roupLayout.Alignment.LEADING)

.addGroup(jPanelCadastroEstoqueLayout.createParallelGroup(javax.swing.G
roupLayout.Alignment.BASELINE)

                            .addComponent(jLabelId)

                            .addComponent(jTextFieldId,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
```

```java
                    .addGroup(jPanelCadastroEstoqueLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(jLabelValorDeCompra)
                        .addComponent(jTextFieldValorDeCompra, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jLabelCor)
                        .addComponent(jComboBoxCor, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
                    .addGap(35, 35, 35)

                    .addGroup(jPanelCadastroEstoqueLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(jTextFieldPlaca, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jLabelValorDaVenda)
                        .addComponent(jTextFieldValorDaVenda, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jComboBoxRodasDeLigaLeve, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jLabelRodasDeLigaLeve)
                        .addComponent(jLabelPlaca))
                    .addGap(27, 27, 27)

                    .addGroup(jPanelCadastroEstoqueLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(jLabelAr)
                        .addComponent(jComboBoxAr, javax.swing.GroupLayout.PREFERRED_SIZE,
```

```java
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

                .addComponent(jLabelBancoEmCouro)

                .addComponent(jComboBoxBancoEmCouro,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

                .addComponent(jLabelMultimidia)

                .addComponent(jComboBoxMultimidia,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

            .addGap(28, 28, 28)


.addGroup(jPanelCadastroEstoqueLayout.createParallelGroup(javax.swing.G
roupLayout.Alignment.BASELINE)

                .addComponent(jLabelPinturaPerolada)

                .addComponent(jComboBoxPinturaPerolada,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))


.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
146, Short.MAX_VALUE)


.addGroup(jPanelCadastroEstoqueLayout.createParallelGroup(javax.swing.G
roupLayout.Alignment.BASELINE)

                .addComponent(jButtonCadastrar)

                .addComponent(jButtonCancelar)

                .addComponent(jButtonConsultar))
            .addGap(19, 19, 19))
        );


        javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
```

```java
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap(46, Short.MAX_VALUE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
                        .addComponent(jLabel1)
                        .addGap(292, 292, 292))
                    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
                        .addComponent(jPanelCadastroEstoque,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(43, 43, 43))))
        );
        layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(60, 60, 60)
                .addComponent(jLabel1)
                .addGap(69, 69, 69)
                .addComponent(jPanelCadastroEstoque,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(325, Short.MAX_VALUE))
        );

        pack();
        setLocationRelativeTo(null);
```

```java
    }// </editor-fold>


    private void jTextFieldIdActionPerformed(java.awt.event.ActionEvent
evt) {
        // TODO add your handling code here:
    }


    private void
jTextFieldValorDeCompraActionPerformed(java.awt.event.ActionEvent evt)
{
        // TODO add your handling code here:
    }


    private void
jComboBoxBancoEmCouroActionPerformed(java.awt.event.ActionEvent evt)
{
        // TODO add your handling code here:
    }


    private void
jTextFieldValorDaVendaActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }


    private void
jComboBoxMultimidiaActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }


    private void
jComboBoxCorActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }
```

```java
    private void
jButtonCancelarActionPerformed(java.awt.event.ActionEvent evt) {

        // TODO add your handling code here:

    }


    private void
jButtonCadastrarActionPerformed(java.awt.event.ActionEvent evt) {

        // TODO add your handling code here:



    }


    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc=" Look and feel
setting code (optional) ">
        /* If Nimbus (introduced in Java SE 6) is not available, stay with
the default look and feel.
         * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
         */
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {
```

```java
java.util.logging.Logger.getLogger(CadastroEstoque.class.getName()).log(ja
va.util.logging.Level.SEVERE, null, ex);

        } catch (InstantiationException ex) {


java.util.logging.Logger.getLogger(CadastroEstoque.class.getName()).log(ja
va.util.logging.Level.SEVERE, null, ex);

        } catch (IllegalAccessException ex) {


java.util.logging.Logger.getLogger(CadastroEstoque.class.getName()).log(ja
va.util.logging.Level.SEVERE, null, ex);

        } catch (javax.swing.UnsupportedLookAndFeelException ex) {


java.util.logging.Logger.getLogger(CadastroEstoque.class.getName()).log(ja
va.util.logging.Level.SEVERE, null, ex);

        }
        //</editor-fold>


        /* Create and display the form */
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new CadastroEstoque().setVisible(true);
            }
        });
    }


    // Variables declaration - do not modify
    private javax.swing.JButton jButtonCadastrar;
    private javax.swing.JButton jButtonCancelar;
    private javax.swing.JButton jButtonConsultar;
    private javax.swing.JComboBox<String> jComboBoxAr;
    private javax.swing.JComboBox<String> jComboBoxBancoEmCouro;
    private javax.swing.JComboBox<String> jComboBoxCor;
    private javax.swing.JComboBox<String> jComboBoxMultimidia;
```
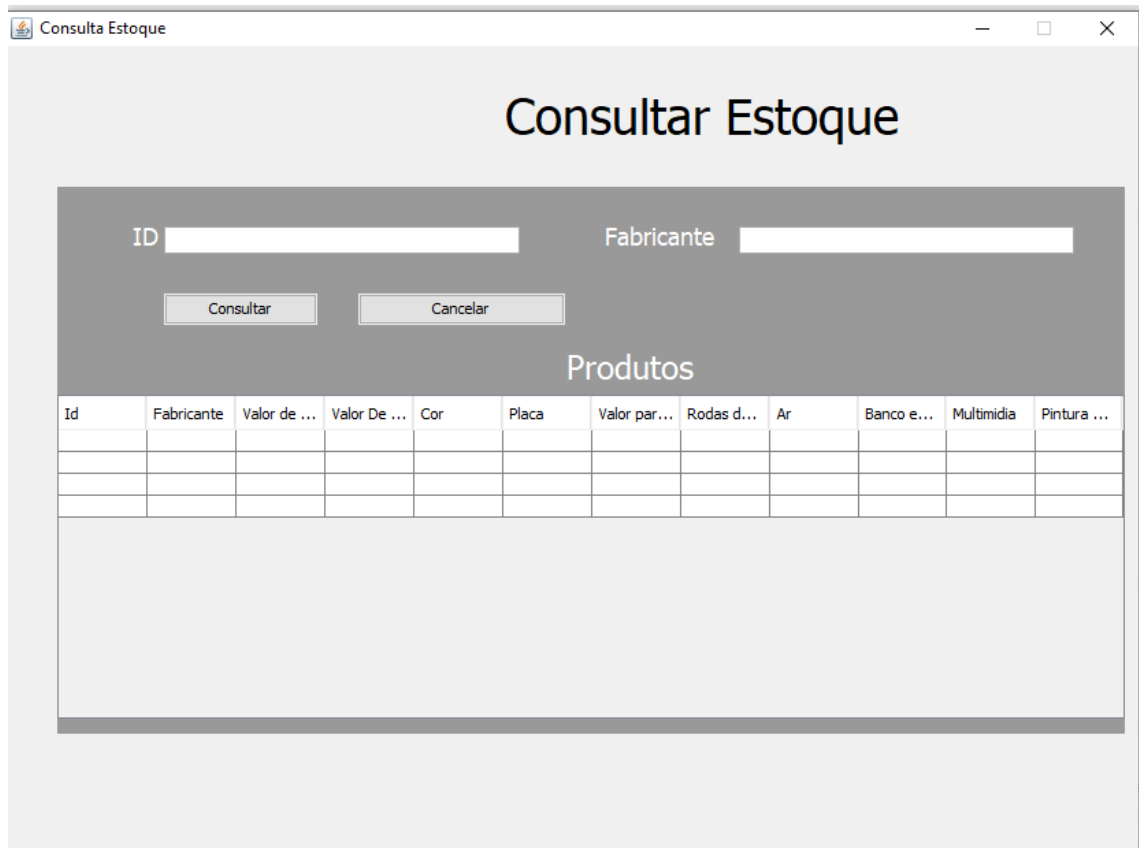
```java
        private javax.swing.JComboBox<String> jComboBoxPinturaPerolada;

        private javax.swing.JComboBox<String>
jComboBoxRodasDeLigaLeve;

        private javax.swing.JLabel jLabel1;

        private javax.swing.JLabel jLabelAr;

        private javax.swing.JLabel jLabelBancoEmCouro;

        private javax.swing.JLabel jLabelCor;

        private javax.swing.JLabel jLabelId;

        private javax.swing.JLabel jLabelMultimidia;

        private javax.swing.JLabel jLabelPinturaPerolada;

        private javax.swing.JLabel jLabelPlaca;

        private javax.swing.JLabel jLabelRodasDeLigaLeve;

        private javax.swing.JLabel jLabelValorDaVenda;

        private javax.swing.JLabel jLabelValorDeCompra;

        private javax.swing.JPanel jPanelCadastroEstoque;

        private javax.swing.JTextField jTextFieldId;

        private javax.swing.JTextField jTextFieldPlaca;

        private javax.swing.JTextField jTextFieldValorDaVenda;

        private javax.swing.JTextField jTextFieldValorDeCompra;

        // End of variables declaration

    }
```

4.2.1.5 Nessa tela o usuário deve colocar um dos dados para poder fazer a pesquisa.

/*

* To change this license header, choose License Headers in Project Properties.

* To change this template file, choose Tools | Templates

* and open the template in the editor.

*/

package view;

/**

*

* @author PICHAU

*/

public class ConsultarEstoque extends javax.swing.JFrame {

```java
    /**
     * Creates new form ConsultarEstoque
     */
    public ConsultarEstoque() {
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize the
form.
     * WARNING: Do NOT modify this code. The content of this method is
always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jPanel1 = new javax.swing.JPanel();
        jLabelId = new javax.swing.JLabel();
        jTextFieldId = new javax.swing.JTextField();
        jLabelFabricante = new javax.swing.JLabel();
        jTextFieldFabricante = new javax.swing.JTextField();
        jButtonConsultar = new javax.swing.JButton();
        jButtonCancelar = new javax.swing.JButton();
        jScrollPane1 = new javax.swing.JScrollPane();
        jTableEstoque = new javax.swing.JTable();
        jLabelProdutos = new javax.swing.JLabel();


setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE_ON_CLO
SE);
```

```java
setTitle("Consulta Estoque");
setResizable(false);

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 36)); // NOI18N
jLabel1.setText("Consultar Estoque");

jPanel1.setBackground(new java.awt.Color(153, 153, 153));
jPanel1.setPreferredSize(new java.awt.Dimension(780, 400));

jLabelId.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabelId.setForeground(new java.awt.Color(255, 255, 255));
jLabelId.setText("ID");

jTextFieldId.setToolTipText("Id");

jLabelFabricante.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabelFabricante.setForeground(new java.awt.Color(255, 255, 255));
jLabelFabricante.setText("Fabricante");

jTextFieldFabricante.setToolTipText("Fabricante");

jButtonConsultar.setText("Consultar");

jButtonCancelar.setText("Cancelar");

jTableEstoque.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null, null, null, null, null, null, null, null, null},
        {null, null, null, null, null, null, null, null, null, null, null, null},
        {null, null, null, null, null, null, null, null, null, null, null, null},
```

```java
                {null, null, null, null, null, null, null, null, null, null, null, null}
            },
            new String [] {
                "Id", "Fabricante", "Valor de Compra", "Valor De Venda",
"Cor", "Placa", "Valor para venda", "Rodas de Liga Leve", "Ar", "Banco em
Couro ", "Multimidia", "Pintura Perolada"
            }
        ));
        jScrollPane1.setViewportView(jTableEstoque);


        jLabelProdutos.setFont(new java.awt.Font("Tahoma", 0, 24)); //
NOI18N
        jLabelProdutos.setForeground(new java.awt.Color(255, 255, 255));
        jLabelProdutos.setText("Produtos");


        javax.swing.GroupLayout jPanel1Layout = new
javax.swing.GroupLayout(jPanel1);
        jPanel1.setLayout(jPanel1Layout);
        jPanel1Layout.setHorizontalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)
            .addComponent(jScrollPane1,
javax.swing.GroupLayout.Alignment.TRAILING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(55, 55, 55)
                .addComponent(jLabelId)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.LEADING)
                    .addGroup(jPanel1Layout.createSequentialGroup()
```

```java
                .addComponent(jTextFieldId,
javax.swing.GroupLayout.PREFERRED_SIZE, 260,
javax.swing.GroupLayout.PREFERRED_SIZE)

                .addGap(62, 62, 62)

                .addComponent(jLabelFabricante)

                .addGap(18, 18, 18)

                .addComponent(jTextFieldFabricante,
javax.swing.GroupLayout.PREFERRED_SIZE, 245,
javax.swing.GroupLayout.PREFERRED_SIZE))

            .addGroup(jPanel1Layout.createSequentialGroup()

                .addComponent(jButtonConsultar,
javax.swing.GroupLayout.PREFERRED_SIZE, 112,
javax.swing.GroupLayout.PREFERRED_SIZE)

                .addGap(30, 30, 30)

                .addComponent(jButtonCancelar,
javax.swing.GroupLayout.PREFERRED_SIZE, 151,
javax.swing.GroupLayout.PREFERRED_SIZE)))

            .addContainerGap(37, Short.MAX_VALUE))

        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()

            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

            .addComponent(jLabelProdutos)

            .addGap(315, 315, 315))
    );
    jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(jPanel1Layout.createSequentialGroup()

            .addGap(25, 25, 25)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

                .addComponent(jLabelId)
```

```
                .addComponent(jTextFieldId,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

                    .addComponent(jLabelFabricante)

                    .addComponent(jTextFieldFabricante,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

                .addGap(29, 29, 29)


.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.BASELINE)

                    .addComponent(jButtonConsultar)

                    .addComponent(jButtonCancelar))


.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
16, Short.MAX_VALUE)

                .addComponent(jLabelProdutos)


.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 237,
javax.swing.GroupLayout.PREFERRED_SIZE)

                .addContainerGap())
        );


        javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());

        getContentPane().setLayout(layout);

        layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.L
EADING)
```

```java
                        .addGroup(layout.createSequentialGroup()
                            .addGap(364, 364, 364)
                            .addComponent(jLabel1))
                        .addGroup(layout.createSequentialGroup()
                            .addGap(37, 37, 37)
                            .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                    .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
            );
        layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addGap(29, 29, 29)
                    .addComponent(jLabel1)
                    .addGap(30, 30, 30)
                    .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addContainerGap(397, Short.MAX_VALUE))
            );

        pack();
        setLocationRelativeTo(null);
    }// </editor-fold>

    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
```

```java
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc=" Look and feel
setting code (optional) ">
        /* If Nimbus (introduced in Java SE 6) is not available, stay with
the default look and feel.
         * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
         */
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(ConsultarEstoque.class.getName()).log(j
ava.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(ConsultarEstoque.class.getName()).log(j
ava.util.logging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(ConsultarEstoque.class.getName()).log(j
ava.util.logging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(ConsultarEstoque.class.getName()).log(j
ava.util.logging.Level.SEVERE, null, ex);
        }
        //</editor-fold>
```

```java
        /* Create and display the form */
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new ConsultarEstoque().setVisible(true);
            }
        });
    }


    // Variables declaration - do not modify
    private javax.swing.JButton jButtonCancelar;
    private javax.swing.JButton jButtonConsultar;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabelFabricante;
    private javax.swing.JLabel jLabelId;
    private javax.swing.JLabel jLabelProdutos;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JTable jTableEstoque;
    private javax.swing.JTextField jTextFieldFabricante;
    private javax.swing.JTextField jTextFieldId;
    // End of variables declaration
}
```

4.2.1.6 Nessa tela o usuário deve preencher o form com os dados do cliente para poder cadastrar o mesmo, só clientes cadastrados fazem compras.

/*

 * To change this license header, choose License Headers in Project Properties.

 * To change this template file, choose Tools | Templates

 * and open the template in the editor.

 */

package view;

/**

 *

 * @author PICHAU

```java
 */
public class CadastrarCliente extends javax.swing.JFrame {

    /**
     * Creates new form CadastrarCliente
     */
    public CadastrarCliente() {
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize the
form.
     * WARNING: Do NOT modify this code. The content of this method is
always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jLabelCadastrarCliente = new javax.swing.JLabel();
        jPanelCadastrarCliente = new javax.swing.JPanel();
        jLabelNomeCompleto = new javax.swing.JLabel();
        jLabelCPF = new javax.swing.JLabel();
        jLabelCNH = new javax.swing.JLabel();
        jLabelEstadoCivil = new javax.swing.JLabel();
        jTextFieldNomeCompleto = new javax.swing.JTextField();
        jLabelID = new javax.swing.JLabel();
        jLabel6DatadeNascimento = new javax.swing.JLabel();
        jLabelNivelEscolar = new javax.swing.JLabel();
        jLabelRG = new javax.swing.JLabel();
```

```java
        jTextFieldID = new javax.swing.JTextField();

        jFormattedTextFieldCPF = new javax.swing.JFormattedTextField();

        jFormattedTextFieldDatadeNascimento = new
javax.swing.JFormattedTextField();

        jTextFieldCNH = new javax.swing.JTextField();

        jComboBoxNivelEscolar = new javax.swing.JComboBox<>();

        jComboBoxEstadoCivil = new javax.swing.JComboBox<>();

        jFormattedTextFieldRG = new javax.swing.JFormattedTextField();

        jLabelRua = new javax.swing.JLabel();

        jTextFieldRua = new javax.swing.JTextField();

        jLabelCEP = new javax.swing.JLabel();

        jFormattedTextFieldCEP = new javax.swing.JFormattedTextField();

        jLabelNumero = new javax.swing.JLabel();

        jTextFieldNumero = new javax.swing.JTextField();

        jLabel1 = new javax.swing.JLabel();

        jTextFieldComplemento = new javax.swing.JTextField();

        jButtonCadastrar = new javax.swing.JButton();

        jButtonCancelar = new javax.swing.JButton();


setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE_ON_CLO
SE);

        setTitle("Cadastrar Cliente");

        setResizable(false);


        jLabelCadastrarCliente.setFont(new java.awt.Font("Tahoma", 0,
36)); // NOI18N

        jLabelCadastrarCliente.setText("Cadastrar Cliente");


        jPanelCadastrarCliente.setBackground(new java.awt.Color(153,
153, 153));

        jPanelCadastrarCliente.setPreferredSize(new
java.awt.Dimension(780, 400));
```

```java
        jLabelNomeCompleto.setFont(new java.awt.Font("Tahoma", 0,
18)); // NOI18N
        jLabelNomeCompleto.setForeground(new java.awt.Color(255, 255,
255));
        jLabelNomeCompleto.setText("Nome Completo");


        jLabelCPF.setFont(new java.awt.Font("Tahoma", 0, 18)); //
NOI18N
        jLabelCPF.setForeground(new java.awt.Color(255, 255, 255));
        jLabelCPF.setText("CPF");


        jLabelCNH.setFont(new java.awt.Font("Tahoma", 0, 18)); //
NOI18N
        jLabelCNH.setForeground(new java.awt.Color(255, 255, 255));
        jLabelCNH.setText("CNH");


        jLabelEstadoCivil.setFont(new java.awt.Font("Tahoma", 0, 18)); //
NOI18N
        jLabelEstadoCivil.setForeground(new java.awt.Color(255, 255,
255));
        jLabelEstadoCivil.setText("Estado Civil");


        jTextFieldNomeCompleto.setToolTipText("Nome Completo");
        jTextFieldNomeCompleto.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jTextFieldNomeCompletoActionPerformed(evt);
            }
        });


        jLabelID.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
        jLabelID.setForeground(new java.awt.Color(255, 255, 255));
        jLabelID.setText("ID");
```

```java
        jLabel6DatadeNascimento.setFont(new java.awt.Font("Tahoma", 0,
18)); // NOI18N

        jLabel6DatadeNascimento.setForeground(new java.awt.Color(255,
255, 255));

        jLabel6DatadeNascimento.setText("Data de Nascimento");


        jLabelNivelEscolar.setFont(new java.awt.Font("Tahoma", 0, 18));
// NOI18N

        jLabelNivelEscolar.setForeground(new java.awt.Color(255, 255,
255));

        jLabelNivelEscolar.setText("Nivel Escolar");


        jLabelRG.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

        jLabelRG.setForeground(new java.awt.Color(255, 255, 255));

        jLabelRG.setText("RG");


        jTextFieldID.setToolTipText("ID");


        try {

            jFormattedTextFieldCPF.setFormatterFactory(new
javax.swing.text.DefaultFormatterFactory(new
javax.swing.text.MaskFormatter("###.###.###-##")));

        } catch (java.text.ParseException ex) {

            ex.printStackTrace();

        }

        jFormattedTextFieldCPF.setToolTipText("CPF");


        try {

            jFormattedTextFieldDatadeNascimento.setFormatterFactory(new
javax.swing.text.DefaultFormatterFactory(new
javax.swing.text.MaskFormatter("##/##/####")));

        } catch (java.text.ParseException ex) {

            ex.printStackTrace();
```

```java
        }
        jFormattedTextFieldDatadeNascimento.setToolTipText("Data de
Nascimento");


        jTextFieldCNH.setToolTipText("CNH");


        jComboBoxNivelEscolar.setModel(new
javax.swing.DefaultComboBoxModel<>(new String[] { "Fundamental",
"Médio", "Superior", "Pós Graduação" }));
        jComboBoxNivelEscolar.setToolTipText("Nivel Escolar");
        jComboBoxNivelEscolar.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jComboBoxNivelEscolarActionPerformed(evt);
            }
        });


        jComboBoxEstadoCivil.setModel(new
javax.swing.DefaultComboBoxModel<>(new String[] { "Solteiro", "Casado",
"Divorciado", "Viuvo" }));
        jComboBoxEstadoCivil.setToolTipText("Estado Civil");


        try {
            jFormattedTextFieldRG.setFormatterFactory(new
javax.swing.text.DefaultFormatterFactory(new
javax.swing.text.MaskFormatter("#.###.###")));
        } catch (java.text.ParseException ex) {
            ex.printStackTrace();
        }
        jFormattedTextFieldRG.setToolTipText("RG");


        jLabelRua.setFont(new java.awt.Font("Tahoma", 0, 18)); //
NOI18N
        jLabelRua.setForeground(new java.awt.Color(255, 255, 255));
```

```java
jLabelRua.setText("Rua");

jTextFieldRua.setToolTipText("Rua");

jLabelCEP.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabelCEP.setForeground(new java.awt.Color(255, 255, 255));
jLabelCEP.setText("CEP");

try {
    jFormattedTextFieldCEP.setFormatterFactory(new javax.swing.text.DefaultFormatterFactory(new javax.swing.text.MaskFormatter("#####-###")));
} catch (java.text.ParseException ex) {
    ex.printStackTrace();
}
jFormattedTextFieldCEP.setToolTipText("CEP");

jLabelNumero.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabelNumero.setForeground(new java.awt.Color(255, 255, 255));
jLabelNumero.setText("Número da Residencia");

jTextFieldNumero.setToolTipText("Numero");

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel1.setForeground(new java.awt.Color(255, 255, 255));
jLabel1.setText("Complemento");

jTextFieldComplemento.setToolTipText("Complemento");

jButtonCadastrar.setText("Cadastrar");
```

```java
        jButtonCancelar.setText("Cancelar");

        jButtonCancelar.addActionListener(new
java.awt.event.ActionListener() {

            public void actionPerformed(java.awt.event.ActionEvent evt) {

                jButtonCancelarActionPerformed(evt);

            }

        });


        javax.swing.GroupLayout jPanelCadastrarClienteLayout = new
javax.swing.GroupLayout(jPanelCadastrarCliente);

        jPanelCadastrarCliente.setLayout(jPanelCadastrarClienteLayout);

        jPanelCadastrarClienteLayout.setHorizontalGroup(

jPanelCadastrarClienteLayout.createParallelGroup(javax.swing.GroupLayout.
Alignment.LEADING)

.addGroup(jPanelCadastrarClienteLayout.createSequentialGroup()

            .addContainerGap()

.addGroup(jPanelCadastrarClienteLayout.createParallelGroup(javax.swing.G
roupLayout.Alignment.TRAILING)

                .addComponent(jLabelNumero)

                .addComponent(jLabelRua)

                .addComponent(jLabelCPF)

                .addComponent(jLabelNomeCompleto)

                .addComponent(jLabelCNH)

                .addComponent(jLabelEstadoCivil))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATE
D)

.addGroup(jPanelCadastrarClienteLayout.createParallelGroup(javax.swing.G
roupLayout.Alignment.LEADING, false)

                .addComponent(jFormattedTextFieldCPF)

                .addComponent(jTextFieldNomeCompleto)
```

```
                    .addComponent(jTextFieldCNH)

                    .addComponent(jComboBoxEstadoCivil, 0, 213,
Short.MAX_VALUE)

                    .addComponent(jTextFieldRua)

                    .addComponent(jTextFieldNumero))


.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATE
D)


.addGroup(jPanelCadastrarClienteLayout.createParallelGroup(javax.swing.G
roupLayout.Alignment.TRAILING)

                    .addComponent(jLabelNivelEscolar)

                    .addComponent(jLabel6DatadeNascimento)

                    .addComponent(jLabelRG)

                    .addComponent(jLabelID)

                    .addComponent(jLabelCEP)

                    .addComponent(jLabel1))


.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)


.addGroup(jPanelCadastrarClienteLayout.createParallelGroup(javax.swing.G
roupLayout.Alignment.LEADING)

                    .addComponent(jFormattedTextFieldRG)

                    .addComponent(jFormattedTextFieldCEP)

                    .addComponent(jTextFieldComplemento)

                    .addComponent(jComboBoxNivelEscolar, 0,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

                    .addComponent(jTextFieldID)

                    .addComponent(jFormattedTextFieldDatadeNascimento,
javax.swing.GroupLayout.Alignment.TRAILING))

                .addContainerGap())
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanelCadastrarClienteLayout.createSequentialGroup()

                .addGap(275, 275, 275)
```

```
                .addComponent(jButtonCadastrar,
javax.swing.GroupLayout.PREFERRED_SIZE, 141,
javax.swing.GroupLayout.PREFERRED_SIZE)


.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
21, Short.MAX_VALUE)
                .addComponent(jButtonCancelar,
javax.swing.GroupLayout.PREFERRED_SIZE, 131,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(212, 212, 212))
        );
        jPanelCadastrarClienteLayout.setVerticalGroup(


jPanelCadastrarClienteLayout.createParallelGroup(javax.swing.GroupLayout.
Alignment.LEADING)


.addGroup(jPanelCadastrarClienteLayout.createSequentialGroup()
                .addGap(20, 20, 20)


.addGroup(jPanelCadastrarClienteLayout.createParallelGroup(javax.swing.G
roupLayout.Alignment.BASELINE)
                    .addComponent(jLabelNomeCompleto)

                    .addComponent(jTextFieldNomeCompleto,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jLabelID)

                    .addComponent(jTextFieldID,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(25, 25, 25)


.addGroup(jPanelCadastrarClienteLayout.createParallelGroup(javax.swing.G
roupLayout.Alignment.BASELINE)
                    .addComponent(jLabelCPF)

                    .addComponent(jLabel6DatadeNascimento)
```

```
                    .addComponent(jFormattedTextFieldCPF,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

                    .addComponent(jFormattedTextFieldDatadeNascimento,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(37, 37, 37)


.addGroup(jPanelCadastrarClienteLayout.createParallelGroup(javax.swing.G
roupLayout.Alignment.BASELINE)

                    .addComponent(jLabelCNH)

                    .addComponent(jLabelNivelEscolar)

                    .addComponent(jTextFieldCNH,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

                    .addComponent(jComboBoxNivelEscolar,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(33, 33, 33)


.addGroup(jPanelCadastrarClienteLayout.createParallelGroup(javax.swing.G
roupLayout.Alignment.BASELINE)

                    .addComponent(jLabelEstadoCivil)

                    .addComponent(jComboBoxEstadoCivil,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

                    .addComponent(jLabelRG)

                    .addComponent(jFormattedTextFieldRG,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(31, 31, 31)


.addGroup(jPanelCadastrarClienteLayout.createParallelGroup(javax.swing.G
roupLayout.Alignment.LEADING)
```

```
                    .addComponent(jLabelRua)

.addGroup(jPanelCadastrarClienteLayout.createParallelGroup(javax.swing.G
roupLayout.Alignment.BASELINE)
                        .addComponent(jTextFieldRua,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jLabelCEP)
                        .addComponent(jFormattedTextFieldCEP,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                    .addGap(25, 25, 25)

.addGroup(jPanelCadastrarClienteLayout.createParallelGroup(javax.swing.G
roupLayout.Alignment.BASELINE)
                        .addComponent(jLabelNumero)
                        .addComponent(jTextFieldNumero,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jLabel1)
                        .addComponent(jTextFieldComplemento,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
40, Short.MAX_VALUE)

.addGroup(jPanelCadastrarClienteLayout.createParallelGroup(javax.swing.G
roupLayout.Alignment.BASELINE)
                        .addComponent(jButtonCadastrar)
                        .addComponent(jButtonCancelar))
                    .addGap(22, 22, 22))
            );
```

```java
        javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());

        getContentPane().setLayout(layout);

        layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                .addComponent(jLabelCadastrarCliente)
                .addGap(278, 278, 278))
            .addGroup(layout.createSequentialGroup()
                .addGap(34, 34, 34)
                .addComponent(jPanelCadastrarCliente,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
        );
        layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(21, 21, 21)
                .addComponent(jLabelCadastrarCliente)
                .addGap(41, 41, 41)
                .addComponent(jPanelCadastrarCliente,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(394, Short.MAX_VALUE))
        );
```

```java
        pack();

        setLocationRelativeTo(null);

    }// </editor-fold>


    private void
jTextFieldNomeCompletoActionPerformed(java.awt.event.ActionEvent evt) {

        // TODO add your handling code here:

    }


    private void
jButtonCancelarActionPerformed(java.awt.event.ActionEvent evt) {

        // TODO add your handling code here:

    }


    private void
jComboBoxNivelEscolarActionPerformed(java.awt.event.ActionEvent evt) {

        // TODO add your handling code here:

    }


    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc=" Look and feel
setting code (optional) ">
        /* If Nimbus (introduced in Java SE 6) is not available, stay with
the default look and feel.
         * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
         */
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
```

```java
            if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(CadastrarCliente.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(CadastrarCliente.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(CadastrarCliente.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(CadastrarCliente.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    }
    //</editor-fold>

    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new CadastrarCliente().setVisible(true);
        }
    });
}


// Variables declaration - do not modify
```

```java
        private javax.swing.JButton jButtonCadastrar;

        private javax.swing.JButton jButtonCancelar;

        private javax.swing.JComboBox<String> jComboBoxEstadoCivil;

        private javax.swing.JComboBox<String> jComboBoxNivelEscolar;

        private javax.swing.JFormattedTextField jFormattedTextFieldCEP;

        private javax.swing.JFormattedTextField jFormattedTextFieldCPF;

        private javax.swing.JFormattedTextField
jFormattedTextFieldDatadeNascimento;

        private javax.swing.JFormattedTextField jFormattedTextFieldRG;

        private javax.swing.JLabel jLabel1;

        private javax.swing.JLabel jLabel6DatadeNascimento;

        private javax.swing.JLabel jLabelCEP;

        private javax.swing.JLabel jLabelCNH;

        private javax.swing.JLabel jLabelCPF;

        private javax.swing.JLabel jLabelCadastrarCliente;

        private javax.swing.JLabel jLabelEstadoCivil;

        private javax.swing.JLabel jLabelID;

        private javax.swing.JLabel jLabelNivelEscolar;

        private javax.swing.JLabel jLabelNomeCompleto;

        private javax.swing.JLabel jLabelNumero;

        private javax.swing.JLabel jLabelRG;

        private javax.swing.JLabel jLabelRua;

        private javax.swing.JPanel jPanelCadastrarCliente;

        private javax.swing.JTextField jTextFieldCNH;

        private javax.swing.JTextField jTextFieldComplemento;

        private javax.swing.JTextField jTextFieldID;

        private javax.swing.JTextField jTextFieldNomeCompleto;

        private javax.swing.JTextField jTextFieldNumero;

        private javax.swing.JTextField jTextFieldRua;

        // End of variables declaration

    }
```

4.2.1.7 Nessa tela o usuário deve colocar um dos dados para poder fazer a pesquisa.


```
/*

 * To change this license header, choose License Headers in Project
Properties.

 * To change this template file, choose Tools | Templates

 * and open the template in the editor.

 */

package view;


/**

 *

 * @author PICHAU

 */

public class ConsultarEstoque extends javax.swing.JFrame {
```

```java
    /**
     * Creates new form ConsultarEstoque
     */
    public ConsultarEstoque() {
        initComponents();
    }


    /**
     * This method is called from within the constructor to initialize the
form.
     * WARNING: Do NOT modify this code. The content of this method is
always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {


        jLabel1 = new javax.swing.JLabel();
        jPanel1 = new javax.swing.JPanel();
        jLabelId = new javax.swing.JLabel();
        jTextFieldId = new javax.swing.JTextField();
        jLabelFabricante = new javax.swing.JLabel();
        jTextFieldFabricante = new javax.swing.JTextField();
        jButtonConsultar = new javax.swing.JButton();
        jButtonCancelar = new javax.swing.JButton();
        jScrollPane1 = new javax.swing.JScrollPane();
        jTableEstoque = new javax.swing.JTable();
        jLabelProdutos = new javax.swing.JLabel();


setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE_ON_CLO
SE);
```

```java
setTitle("Consulta Estoque");
setResizable(false);

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 36)); // NOI18N
jLabel1.setText("Consultar Estoque");

jPanel1.setBackground(new java.awt.Color(153, 153, 153));
jPanel1.setPreferredSize(new java.awt.Dimension(780, 400));

jLabelId.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabelId.setForeground(new java.awt.Color(255, 255, 255));
jLabelId.setText("ID");

jTextFieldId.setToolTipText("Id");

jLabelFabricante.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabelFabricante.setForeground(new java.awt.Color(255, 255, 255));
jLabelFabricante.setText("Fabricante");

jTextFieldFabricante.setToolTipText("Fabricante");

jButtonConsultar.setText("Consultar");

jButtonCancelar.setText("Cancelar");

jTableEstoque.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null, null, null, null, null, null, null, null, null},
        {null, null, null, null, null, null, null, null, null, null, null, null},
        {null, null, null, null, null, null, null, null, null, null, null, null},
```

```java
                {null, null, null, null, null, null, null, null, null, null, null, null}
            },
            new String [] {
                "Id", "Fabricante", "Valor de Compra", "Valor De Venda",
"Cor", "Placa", "Valor para venda", "Rodas de Liga Leve", "Ar", "Banco em
Couro ", "Multimidia", "Pintura Perolada"
            }
        ));
        jScrollPane1.setViewportView(jTableEstoque);


        jLabelProdutos.setFont(new java.awt.Font("Tahoma", 0, 24)); //
NOI18N
        jLabelProdutos.setForeground(new java.awt.Color(255, 255, 255));
        jLabelProdutos.setText("Produtos");


        javax.swing.GroupLayout jPanel1Layout = new
javax.swing.GroupLayout(jPanel1);
        jPanel1.setLayout(jPanel1Layout);
        jPanel1Layout.setHorizontalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)
            .addComponent(jScrollPane1,
javax.swing.GroupLayout.Alignment.TRAILING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(55, 55, 55)
                .addComponent(jLabelId)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.LEADING)
                    .addGroup(jPanel1Layout.createSequentialGroup()
```

```java
                .addComponent(jTextFieldId,
javax.swing.GroupLayout.PREFERRED_SIZE, 260,
javax.swing.GroupLayout.PREFERRED_SIZE)

                .addGap(62, 62, 62)

                .addComponent(jLabelFabricante)

                .addGap(18, 18, 18)

                .addComponent(jTextFieldFabricante,
javax.swing.GroupLayout.PREFERRED_SIZE, 245,
javax.swing.GroupLayout.PREFERRED_SIZE))

                .addGroup(jPanel1Layout.createSequentialGroup()

                .addComponent(jButtonConsultar,
javax.swing.GroupLayout.PREFERRED_SIZE, 112,
javax.swing.GroupLayout.PREFERRED_SIZE)

                .addGap(30, 30, 30)

                .addComponent(jButtonCancelar,
javax.swing.GroupLayout.PREFERRED_SIZE, 151,
javax.swing.GroupLayout.PREFERRED_SIZE)))

                .addContainerGap(37, Short.MAX_VALUE))

            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()

                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

                .addComponent(jLabelProdutos)

                .addGap(315, 315, 315))
        );
        jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addGroup(jPanel1Layout.createSequentialGroup()

                .addGap(25, 25, 25)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

                .addComponent(jLabelId)
```

```
                .addComponent(jTextFieldId,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

                    .addComponent(jLabelFabricante)

                    .addComponent(jTextFieldFabricante,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

            .addGap(29, 29, 29)


.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alig
nment.BASELINE)

                    .addComponent(jButtonConsultar)

                    .addComponent(jButtonCancelar))


.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
16, Short.MAX_VALUE)

            .addComponent(jLabelProdutos)


.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 237,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addContainerGap())
        );


        javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());

        getContentPane().setLayout(layout);

        layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()


.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.L
EADING)
```

```java
                .addGroup(layout.createSequentialGroup()
                    .addGap(364, 364, 364)
                    .addComponent(jLabel1))
                .addGroup(layout.createSequentialGroup()
                    .addGap(37, 37, 37)
                    .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
        );
        layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(29, 29, 29)
                .addComponent(jLabel1)
                .addGap(30, 30, 30)
                .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(397, Short.MAX_VALUE))
        );

        pack();
        setLocationRelativeTo(null);
    }// </editor-fold>

    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
```

```java
/* Set the Nimbus look and feel */

//<editor-fold defaultstate="collapsed" desc=" Look and feel
setting code (optional) ">

/* If Nimbus (introduced in Java SE 6) is not available, stay with
the default look and feel.

 * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

 */

try {

    for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {

        if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());

            break;

        }

    }

} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(ConsultarEstoque.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(ConsultarEstoque.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(ConsultarEstoque.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(ConsultarEstoque.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

//</editor-fold>
```

```java
        /* Create and display the form */

        java.awt.EventQueue.invokeLater(new Runnable() {

            public void run() {

                new ConsultarEstoque().setVisible(true);

            }

        });

    }


    // Variables declaration - do not modify

    private javax.swing.JButton jButtonCancelar;

    private javax.swing.JButton jButtonConsultar;

    private javax.swing.JLabel jLabel1;

    private javax.swing.JLabel jLabelFabricante;

    private javax.swing.JLabel jLabelId;

    private javax.swing.JLabel jLabelProdutos;

    private javax.swing.JPanel jPanel1;

    private javax.swing.JScrollPane jScrollPane1;

    private javax.swing.JTable jTableEstoque;

    private javax.swing.JTextField jTextFieldFabricante;

    private javax.swing.JTextField jTextFieldId;

    // End of variables declaration

}
```

4.2.1.8 Nessa tela o usuário deve colocar os id do produto e do cliente, mais sua matricula para poder finalizar um venda.

```
/*

 * To change this license header, choose License Headers in Project
Properties.

 * To change this template file, choose Tools | Templates

 * and open the template in the editor.

 */

package view;


/**

 *

 * @author PICHAU

 */

public class Venda extends javax.swing.JFrame {


    /**

     * Creates new form Venda

     */

    public Venda() {

        initComponents();

    }
```

```java
    /**
     * This method is called from within the constructor to initialize the
form.
     * WARNING: Do NOT modify this code. The content of this method is
always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jLabelProdutoID = new javax.swing.JLabel();
        jTextFieldProdutoID = new javax.swing.JTextField();
        jLabelClienteID = new javax.swing.JLabel();
        jTextFieldClienteID = new javax.swing.JTextField();
        jLabelMatriculaVendedor = new javax.swing.JLabel();
        jTextFieldMatriculaVendedor = new javax.swing.JTextField();
        jButtonFinalizar = new javax.swing.JButton();


setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE_ON_CLOSE);
        setResizable(false);

        jLabel1.setFont(new java.awt.Font("Tahoma", 0, 36)); // NOI18N
        jLabel1.setText("Venda");

        jLabelProdutoID.setFont(new java.awt.Font("Tahoma", 0, 18)); //
NOI18N
        jLabelProdutoID.setText("Produto ID");
```

```java
        jTextFieldProdutoID.setToolTipText("ProdutoID");

        jLabelClienteID.setFont(new java.awt.Font("Tahoma", 0, 18)); //
NOI18N
        jLabelClienteID.setText("Cliente ID");

        jTextFieldClienteID.setToolTipText("ClienteID");

        jLabelMatriculaVendedor.setFont(new java.awt.Font("Tahoma", 0,
18)); // NOI18N
        jLabelMatriculaVendedor.setText("Matricula Vendedor");
        jLabelMatriculaVendedor.setToolTipText("");

        jTextFieldMatriculaVendedor.setToolTipText("MatriculaVendedor");

        jButtonFinalizar.setText("Finalizar ");
        jButtonFinalizar.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButtonFinalizarActionPerformed(evt);
            }
        });

        javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(348, 348, 348)
                .addComponent(jLabel1)
```

```java
                    .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
                .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
TRAILING)
                    .addGroup(layout.createSequentialGroup()

                        .addContainerGap()

                        .addComponent(jLabelMatriculaVendedor,
javax.swing.GroupLayout.PREFERRED_SIZE, 151,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(jTextFieldMatriculaVendedor,
javax.swing.GroupLayout.PREFERRED_SIZE, 190,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
27, Short.MAX_VALUE)
                        .addComponent(jButtonFinalizar,
javax.swing.GroupLayout.PREFERRED_SIZE, 362,
javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGroup(layout.createSequentialGroup()

                        .addGap(54, 54, 54)

                        .addComponent(jLabelProdutoID)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATE
D)

                        .addComponent(jTextFieldProdutoID)

                        .addGap(18, 18, 18)

                        .addComponent(jLabelClienteID)

                        .addGap(18, 18, 18)

                        .addComponent(jTextFieldClienteID,
javax.swing.GroupLayout.PREFERRED_SIZE, 271,
javax.swing.GroupLayout.PREFERRED_SIZE)))

                .addGap(56, 56, 56))
```

```
            );
        layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(27, 27, 27)
                .addComponent(jLabel1)
                .addGap(41, 41, 41)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
BASELINE)
                    .addComponent(jLabelProdutoID)
                    .addComponent(jTextFieldProdutoID,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jLabelClienteID)
                    .addComponent(jTextFieldClienteID,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(33, 33, 33)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
BASELINE)
                    .addComponent(jLabelMatriculaVendedor)
                    .addComponent(jTextFieldMatriculaVendedor,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jButtonFinalizar))
                .addContainerGap(405, Short.MAX_VALUE))
        );

        pack();
        setLocationRelativeTo(null);
```

```java
    }// </editor-fold>


    private void
jButtonFinalizarActionPerformed(java.awt.event.ActionEvent evt) {

        // TODO add your handling code here:

    }


    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc=" Look and feel
setting code (optional) ">
        /* If Nimbus (introduced in Java SE 6) is not available, stay with
the default look and feel.
         * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
         */
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(Venda.class.getName()).log(java.util.log
ging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {
```

```java
            java.util.logging.Logger.getLogger(Venda.class.getName()).log(java.util.log
ging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {

            java.util.logging.Logger.getLogger(Venda.class.getName()).log(java.util.log
ging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

            java.util.logging.Logger.getLogger(Venda.class.getName()).log(java.util.log
ging.Level.SEVERE, null, ex);
        }
        //</editor-fold>


        /* Create and display the form */
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new Venda().setVisible(true);
            }
        });
    }


    // Variables declaration - do not modify
    private javax.swing.JButton jButtonFinalizar;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabelClienteID;
    private javax.swing.JLabel jLabelMatriculaVendedor;
    private javax.swing.JLabel jLabelProdutoID;
    private javax.swing.JTextField jTextFieldClienteID;
    private javax.swing.JTextField jTextFieldMatriculaVendedor;
    private javax.swing.JTextField jTextFieldProdutoID;
    // End of variables declaration
}
```

4.2.2 Classes da camada Controller

4.2.2.1 – ClienteController

```java
/*
 * To change this license header, choose License Headers in Project
Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

package controller;

import dao.daoCliente;
import java.text.ParseException;
import java.text.SimpleDateFormat;
import java.time.LocalDate;
import java.time.format.DateTimeFormatter;
import java.util.Date;
import javax.swing.JOptionPane;
import model.Cliente;

/**
 *
 * @author Expression Tarcisio is undefined on line 12, column 14 in
Templates/Classes/Class.java.
 */
public class ClienteController {


    public boolean cadastrarCliente(String cpf, String dataNascimento,
String nomeCompleto, String cnh, String nivelEscolar, String estadoCivil
        , String rg, String rua, String cep, String numero, String cidade,
String complemento ) throws ParseException{
```

```java
        if(cpf != null && cpf.length() > 0 && dataNascimento != null &&
dataNascimento.length() > 0 && nomeCompleto != null &&
nomeCompleto.length() > 0 && cnh != null && cnh.length() > 0 &&

            nivelEscolar != null && nivelEscolar.length() > 0 &&
estadoCivil != null && estadoCivil.length() > 0 && rg != null && rg.length()
> 0 &&

            rua != null && rua.length() > 0 && cep != null &&
cep.length() > 0 && numero != null && numero.length() > 0 && cidade !=
null && cidade.length() > 0 ){


            Integer numeroConvertido = Integer.parseInt(numero);


            //converter data para formato americano
            String dia = dataNascimento.substring(0, 2);
            String mes = dataNascimento.substring(3,5);
            String ano = dataNascimento.substring(6);



            String dataParaMySQL = ano+"-"+mes+"-"+dia;


            //instanciando cliente
            model.Cliente cliente = new Cliente();


            //inserindo dados no objeto
            cliente.setCpf(cpf);
            cliente.setDataDeNascimento(dataParaMySQL);
            cliente.setNomeCompleto(nomeCompleto);
            cliente.setCnh(cnh);
            cliente.setNivelEscolar(nivelEscolar);
            cliente.setEstadoCivil(estadoCivil);
            cliente.setRg(rg);
            cliente.setRua(rua);
```

```java
            cliente.setCep(cep);

            cliente.setNumero(numeroConvertido);

            cliente.setCidade(cidade);

            if(complemento != null && complemento.length() > 0){

                cliente.setComplemento(complemento);

            }


            dao.daoCliente dao = new daoCliente();

            dao.inserirCliente(cliente);


            JOptionPane.showMessageDialog(null, "Cadastro feito!");


            /* DateTimeFormatter formato =
DateTimeFormatter.ofPattern("dd/MM/yyyy");

            LocalDate data = LocalDate.parse(dataNascimento, formato);
*/


            //SimpleDateFormat formato = new
SimpleDateFormat("dd/MM/yyyy");

            //Date dataFormatada = formato.parse(dataNascimento);


            return true;

        }

        JOptionPane.showMessageDialog(null, "Preencha os campos
informados!");

        return false;

    }
```

}

        4.2.2.2 – EstoqueController

        /*

        * To change this license header, choose License Headers in Project
Properties.

        * To change this template file, choose Tools | Templates

        * and open the template in the editor.

        */

        package controller;

        import dao.Conexao;

        import dao.daoEstoque;

        import java.sql.Connection;

        import java.sql.PreparedStatement;

        import java.sql.SQLException;

        import static java.util.Objects.toString;

        import static java.util.Objects.toString;

        import javax.swing.JOptionPane;

        import static jdk.nashorn.internal.objects.NativeString.toLowerCase;

        import model.Estoque;

        import model.Fabricante;

        import view.CadastroEstoque;

        /**

        *

        * @author Expression Tarcisio is undefined on line 12, column 14 in
Templates/Classes/Class.java.

        */

```java
public class EstoqueController {


    public boolean cadastrarEstoque(String id, String valorDeCompra,
String cor, String placa, String valorDeVenda, String ar, String
rodaDeLigaLeve
        , String bancoEmCoro, String multimidia, String pinturaPerolada,
String marca, String modelo){











        if(valorDeCompra != null && valorDeCompra.length() > 0 && cor
!= null && cor.length() > 0 && placa != null && placa.length() > 0 &&

            valorDeVenda != null && valorDeVenda.length() > 0 &&
rodaDeLigaLeve != null && rodaDeLigaLeve.length() > 0 && ar != null &&
ar.length() > 0 &&

            bancoEmCoro != null && bancoEmCoro.length() > 0 &&
multimidia != null && multimidia.length() > 0 && pinturaPerolada != null
&&

            pinturaPerolada.length() > 0 && modelo != null &&
modelo.length() > 0 && marca != null && marca.length() > 0 ){


            //instanciando as model estoque e fabricante

            Estoque estoque = new Estoque();

            Fabricante fabricante = new Fabricante();


            //convertendo em float as strings

            Float valorDeCompraC = Float.parseFloat(valorDeCompra);

            Float valorDeVendaC = Float.parseFloat(valorDeVenda);


            //inserindo os valores em estoque
```

```java
estoque.setValorDeCompra(valorDeCompraC);

estoque.setCor(cor);

estoque.setPlaca(placa);

estoque.setValorDeVenda(valorDeVendaC);

estoque.setRodasDeLigaLeve(rodaDeLigaLeve);

estoque.setAr(ar);

estoque.setBancoEmCoro(bancoEmCoro);

estoque.setMultimidia(multimidia);

estoque.setPinturaPerolada(pinturaPerolada);


//inserindo valores em fabricante
fabricante.setMarca(marca);
fabricante.setModelo(modelo);




        /* como o id no banco é auto-increment então coloquei essa
verificação, pois não é

        necessario o usuario digitar o id, pois ele vai de forma
altomatica, provavelmente o

         campo id vai ficar em desativado.
        */
        if (id != null && id.length() > 0){
            Integer idC = Integer.parseInt(id);


        }


        dao.daoEstoque es = new daoEstoque();


        es.inserirEstoque(estoque, fabricante);
```

```java
            view.CadastroEstoque ce = new CadastroEstoque();

            ce.limparTela();


        return true;



    }else{


        JOptionPane.showMessageDialog(null, "Preencha os campos
corretamente!");
        }



        return false;



    }




    public void cadastrarEstoqueB() throws SQLException{
        CadastroEstoque ce = new CadastroEstoque();


        Connection c = new Conexao().getConnection();


         String estoque = "insert into estoque " + "(valorDeCompra, cor,
placa, valorDeVenda, rodasDeLogaLeve,"
                + "bancoEmCoro, multimidia, pinturaPerolada) " + "values
(?,?,?,?,?,?,?,?)";
```

```java
        PreparedStatement stm = c.prepareStatement(estoque);


    // stm.setFloat(1, ce.);


    //inserir dados no estoque



  }


 }
```

4.2.2.3 – LoginController


```java
/*
 * To change this license header, choose License Headers in Project
Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */


package controller;


import dao.daoLogin;
import javax.swing.JOptionPane;
import model.Login;


/**
 *
 * @author Expression Tarcisio is undefined on line 12, column 14 in
Templates/Classes/Class.java.
 */
```

```java
public class LoginController {

    public boolean realizarLogin(String usuario, String senha){

        if(usuario != null && usuario.length() > 0){
            if(senha != null && senha.length() > 0){
                Login login = new Login();
                login.setUsuario(usuario);
                login.setSenha(senha);

                daoLogin dao = new daoLogin();
                dao.verificarLogin(login);

                return true;
            }
            JOptionPane.showMessageDialog(null, "Digitar a senha!");
            return false;
        }
        JOptionPane.showMessageDialog(null, "Digite o Usuario e Senha!");
        return false;

    }

    public void validarLogin(Login login, Login login1){

        if (login.getUsuario().equals(login1.getUsuario()) && login.getSenha().equals(login1.getSenha())){
            JOptionPane.showMessageDialog(null, "Seja bem vindo " + login.getUsuario());
            new view.Index().setVisible(true);
```

```java
        }else{
            JOptionPane.showMessageDialog(null, "Usuario Incorreto!");
        }
    }
}
```

4.2.2.4 – UsuarioController

```java
/*
 * To change this license header, choose License Headers in Project
Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

package controller;

import dao.daoUsuario;
import javax.swing.JOptionPane;
import model.Cliente;
import model.Usuario;
import view.CadastroUsuario;

/**
 *
 * @author Expression Tarcisio is undefined on line 12, column 14 in
Templates/Classes/Class.java.
 */
public class UsuarioController {


    //Criar metodo para receber os dados da Tela Cadastro Usuario
```

```java
    public boolean cadastrarUsuario(String nome, String cpf, String
telefone, String matricula,
        String cargo, String email){




        //Validando dados de Cadastro Usuario se não for nulo entra no if
        if(nome != null && nome.length() > 0 && cpf != null && cpf.length() >
0 &&
            telefone != null && telefone.length() > 0 && matricula != null &&
matricula.length() > 0 &&
            email != null && email.length() > 0){


        //depois de saber se matricula e id não é nulo os dois campo é
convertido para inteiro
        int matriculaConvertido = Integer.parseInt(matricula);



        //instanciando cliente e passando dados como parametros
        Usuario us = new Usuario();

        us.setNome(nome);
        us.setCpf(cpf);
        us.setTelefone(telefone);
        us.setMatricula(matriculaConvertido);
        us.setEmail(email);


        if(cargo != null && cargo.length() > 0){
            us.setCargo(cargo);
```

```
            }


        daoUsuario daoUser = new daoUsuario();


        daoUser.cadastrarUsuarioNoBanco(us);
        CadastroUsuario cut = new CadastroUsuario();
        cut.limparTela();


        return true;



    }


    JOptionPane.showMessageDialog(null, "Digite os campos!");
    return false;



    }


}
```

4.2.3 Classes da camada Model

4.2.3.1 – Cliente

```
/*
 * To change this license header, choose License Headers in Project
Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
```

```java
 */

package model;

import java.util.Date;

import java.util.ArrayList;

/**
 *
 * @author Expression Tarcisio is undefined on line 12, column 14 in
Templates/Classes/Class.java.
 */
public class Cliente {

    private Integer id; private String cpf; private String dataDeNascimento;

    private String nomeCompleto;    private String cnh; private String
nivelEscolar;

    private String estadoCivil; private String rg;  private String rua; private
String cep;

    private String cidade;


    public String getCidade() {

       return cidade;

    }


    public void setCidade(String cidade) {

       this.cidade = cidade;

    }

    private Integer numero; private String complemento;

    private ArrayList<Venda> venda = new ArrayList<Venda>();

    private ArrayList<HistoricoDeCompras> historicoDeCompras = new
ArrayList<HistoricoDeCompras>();


    public Integer getId() {

       return id;

    }
```

```java
public void setId(Integer id) {

    this.id = id;

}


public String getCpf() {

    return cpf;

}


public void setCpf(String cpf) {

    this.cpf = cpf;

}


public String getDataDeNascimento() {

    return dataDeNascimento;

}


public void setDataDeNascimento(String dataDeNascimento) {

    this.dataDeNascimento = dataDeNascimento;

}


public String getNomeCompleto() {

    return nomeCompleto;

}


public void setNomeCompleto(String nomeCompleto) {

    this.nomeCompleto = nomeCompleto;

}


public String getCnh() {

    return cnh;
```

```java
    }

    public void setCnh(String cnh) {
        this.cnh = cnh;
    }

    public String getNivelEscolar() {
        return nivelEscolar;
    }

    public void setNivelEscolar(String nivelEscolar) {
        this.nivelEscolar = nivelEscolar;
    }

    public String getEstadoCivil() {
        return estadoCivil;
    }

    public void setEstadoCivil(String estadoCivil) {
        this.estadoCivil = estadoCivil;
    }

    public String getRg() {
        return rg;
    }

    public void setRg(String rg) {
        this.rg = rg;
    }

    public String getRua() {
```

```java
        return rua;
    }

    public void setRua(String rua) {
        this.rua = rua;
    }

    public String getCep() {
        return cep;
    }

    public void setCep(String cep) {
        this.cep = cep;
    }

    public Integer getNumero() {
        return numero;
    }

    public void setNumero(Integer numero) {
        this.numero = numero;
    }

    public String getComplemento() {
        return complemento;
    }

    public void setComplemento(String complemento) {
        this.complemento = complemento;
    }
```

```java
    public ArrayList<Venda> getVenda() {

        return venda;

    }


    public void setVenda(ArrayList<Venda> venda) {

        this.venda = venda;

    }


    public ArrayList<HistoricoDeCompras> getHistoricoDeCompras() {

        return historicoDeCompras;

    }


    public void setHistoricoDeCompras(ArrayList<HistoricoDeCompras>
historicoDeCompras) {

        this.historicoDeCompras = historicoDeCompras;

    }



}
```

4.2.3.2 – Estoque

```java
/*
 * To change this license header, choose License Headers in Project
Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */


package model;
```

```java
import javax.swing.JLabel;

import javax.swing.JTextField;


/**
 *
 * @author Expression Tarcisio is undefined on line 12, column 14 in
Templates/Classes/Class.java.
 */
public class Estoque {

    private Integer id;  private Float valorDeCompra;   private String cor;

    private String placa;   private Float valorDeVenda; private String
rodasDeLigaLeve;

    private String ar; private String bancoEmCoro;  private String
multimidia;

    private String pinturaPerolada; private Venda venda; private Fabricante
fabricante;




    public Integer getId() {

        return id;

    }


    public Float getValorDeCompra() {

        return valorDeCompra;

    }


    public String getCor() {

        return cor;

    }
```

```java
public String getPlaca() {

    return placa;

}


public Float getValorDeVenda() {

    return valorDeVenda;

}


public String getRodasDeLigaLeve() {

    return rodasDeLigaLeve;

}


public String getAr() {

    return ar;

}


public String getBancoEmCoro() {

    return bancoEmCoro;

}


public String getMultimidia() {

    return multimidia;

}


public String getPinturaPerolada() {

    return pinturaPerolada;

}


public Venda getVenda() {

    return venda;

}
```

```java
public Fabricante getFabricante() {

    return fabricante;

}


public void setId(Integer id) {

    this.id = id;

}


public void setValorDeCompra(Float valorDeCompra) {

    this.valorDeCompra = valorDeCompra;

}


public void setCor(String cor) {

    this.cor = cor;

}


public void setPlaca(String placa) {

    this.placa = placa;

}


public void setValorDeVenda(Float valorDeVenda) {

    this.valorDeVenda = valorDeVenda;

}


public void setRodasDeLigaLeve(String rodasDeLigaLeve) {

    this.rodasDeLigaLeve = rodasDeLigaLeve;

}


public void setAr(String ar) {

    this.ar = ar;
```

```java
    }

    public void setBancoEmCoro(String bancoEmCoro) {
        this.bancoEmCoro = bancoEmCoro;
    }

    public void setMultimidia(String multimidia) {
        this.multimidia = multimidia;
    }

    public void setPinturaPerolada(String pinturaPerolada) {
        this.pinturaPerolada = pinturaPerolada;
    }

    public void setVenda(Venda venda) {
        this.venda = venda;
    }

    public void setFabricante(Fabricante fabricante) {
        this.fabricante = fabricante;
    }

    public void cadastrarEstoque(Estoque estoque){

    }

}
```

4.2.3.3 – Fabricante

```java
/*
 * To change this license header, choose License Headers in Project
Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

package model;

import java.util.ArrayList;

/**
 *
 * @author Expression Tarcisio is undefined on line 12, column 14 in
Templates/Classes/Class.java.
 */
public class Fabricante {

    private Integer id; private String marca; private String modelo;

    private ArrayList<Estoque> estoque = new ArrayList<Estoque>();

    public Integer getId() {

        return id;

    }

    public void setId(Integer id) {

        this.id = id;

    }

    public String getMarca() {

        return marca;

    }
```

```java
    public void setMarca(String marca) {

        this.marca = marca;

    }


    public String getModelo() {

        return modelo;

    }


    public void setModelo(String modelo) {

        this.modelo = modelo;

    }


    public ArrayList<Estoque> getEstoque() {

        return estoque;

    }


    public void setEstoque(ArrayList<Estoque> estoque) {

        this.estoque = estoque;

    }

}
```

4.2.3.4 – HistoricoDeCompras


```java
/*
 * To change this license header, choose License Headers in Project
Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
```

```java
package model;

/**
 *
 * @author Expression Tarcisio is undefined on line 12, column 14 in
Templates/Classes/Class.java.
 */
public class HistoricoDeCompras {

    private Integer id; private Integer quantidadeDeCarros;

    private Integer quantidadeDeAnaliseDeCreditos; private Integer
quantidadeDeCreditoNegado;

    private Cliente cliente;

    public Integer getId() {

        return id;

    }

    public void setId(Integer id) {

        this.id = id;

    }

    public Integer getQuantidadeDeCarros() {

        return quantidadeDeCarros;

    }

    public void setQuantidadeDeCarros(Integer quantidadeDeCarros) {

        this.quantidadeDeCarros = quantidadeDeCarros;

    }

    public Integer getQuantidadeDeAnaliseDeCreditos() {

        return quantidadeDeAnaliseDeCreditos;
```

```java
    }


    public void setQuantidadeDeAnaliseDeCreditos(Integer
quantidadeDeAnaliseDeCreditos) {

        this.quantidadeDeAnaliseDeCreditos =
quantidadeDeAnaliseDeCreditos;

    }


    public Integer getQuantidadeDeCreditoNegado() {

        return quantidadeDeCreditoNegado;

    }


    public void setQuantidadeDeCreditoNegado(Integer
quantidadeDeCreditoNegado) {

        this.quantidadeDeCreditoNegado = quantidadeDeCreditoNegado;

    }


    public Cliente getCliente() {

        return cliente;

    }


    public void setCliente(Cliente cliente) {

        this.cliente = cliente;

    }
}
```

4.2.3.5 – Login


```java
/*
 * To change this license header, choose License Headers in Project
Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
```

```java
 */

package model;

/**
 *
 * @author Expression Tarcisio is undefined on line 12, column 14 in
Templates/Classes/Class.java.
 */
public class Login {
    private Integer id; private String usuario; private String senha;
    private Usuario usuarios;

    public Integer getId() {
        return id;
    }

    public void setId(Integer id) {
        this.id = id;
    }

    public String getUsuario() {
        return usuario;
    }

    public void setUsuario(String usuario) {
        this.usuario = usuario;
    }

    public String getSenha() {
        return senha;
```

```java
    }

    public void setSenha(String senha) {
        this.senha = senha;
    }

    public Usuario getUsuarios() {
        return usuarios;
    }

    public void setUsuarios(Usuario usuarios) {
        this.usuarios = usuarios;
    }
}
```

4.2.3.6 – Usuario

```java
/*
 * To change this license header, choose License Headers in Project
Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

package model;

import java.util.ArrayList;

/**
 *
 * @author Expression Tarcisio is undefined on line 12, column 14 in
Templates/Classes/Class.java.
```

```java
 */
public class Usuario {

    private Integer id; private String telefone;    private String cpf;

    private String nome;   private String email;    private String cargo;

    private Integer matricula;  private Login login;

    private ArrayList<Venda> vendas = new ArrayList<Venda>();




    public Integer getId() {

        return id;

    }


    public void setId(Integer id) {

        this.id = id;

    }


    public String getTelefone() {

        return telefone;

    }


    public void setTelefone(String telefone) {

        this.telefone = telefone;

    }


    public String getCpf() {

        return cpf;

    }


    public void setCpf(String cpf) {

        this.cpf = cpf;
```

```java
    }

    public String getNome() {
        return nome;
    }

    public void setNome(String nome) {
        this.nome = nome;
    }

    public String getEmail() {
        return email;
    }

    public void setEmail(String email) {
        this.email = email;
    }

    public String getCargo() {
        return cargo;
    }

    public void setCargo(String cargo) {
        this.cargo = cargo;
    }

    public Integer getMatricula() {
        return matricula;
    }

    public void setMatricula(Integer matricula) {
```

```java
        this.matricula = matricula;
    }


    public Login getLogin() {
        return login;
    }


    public void setLogin(Login login) {
        this.login = login;
    }




    public ArrayList<Venda> getVendas() {
        return vendas;
    }


    public void setVendas(ArrayList<Venda> vendas) {
        this.vendas = vendas;
    }




}
```

4.2.3.7 – Vendas

```java
/*
 * To change this license header, choose License Headers in Project
Properties.
```

```java
package model;

import java.util.ArrayList;

import java.util.Date;

/**
 *
 * @author Expression Tarcisio is undefined on line 12, column 14 in
Templates/Classes/Class.java.
 */
public class Venda {

    private Integer id; private Date dataDaVenda; private Integer
codigoVenda;

    private ArrayList<Usuario> usuarios = new ArrayList<Usuario>();

    private Cliente client; private ArrayList<Estoque> estoque = new
ArrayList<Estoque>();


    public Integer getId() {

        return id;

    }


    public void setId(Integer id) {

        this.id = id;

    }


    public Date getDataDaVenda() {

        return dataDaVenda;

    }


    public void setDataDaVenda(Date dataDaVenda) {
```

```java
        this.dataDaVenda = dataDaVenda;

    }

    public Integer getCodigoVenda() {

        return codigoVenda;

    }

    public void setCodigoVenda(Integer codigoVenda) {

        this.codigoVenda = codigoVenda;

    }

    public ArrayList<Usuario> getUsuarios() {

        return usuarios;

    }

    public void setUsuarios(ArrayList<Usuario> usuarios) {

        this.usuarios = usuarios;

    }

    public Cliente getClient() {

        return client;

    }

    public void setClient(Cliente client) {

        this.client = client;

    }

    public ArrayList<Estoque> getEstoque() {

        return estoque;

    }
```

```java
    public void setEstoque(ArrayList<Estoque> estoque) {

        this.estoque = estoque;

    }



}
```

4.2.4 Classes da camada DAO

4.2.4.1 – daoConexao

```java
/*

 * To change this license header, choose License Headers in Project
Properties.

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 * and open the template in the editor.

 */



package dao;



import com.mysql.jdbc.Connection;

import java.sql.DriverManager;

import java.sql.SQLException;



/**

 *

 * @author Expression Tarcisio is undefined on line 12, column 14 in
Templates/Classes/Class.java.

 */

public class Conexao {

    public java.sql.Connection getConnection() {
```

```java
        try {

            return
DriverManager.getConnection("jdbc:mysql://localhost/sigcar","root", "");

        }catch(SQLException e){

            throw new RuntimeException(e);

        }

    }

}
```

4.2.4.2 – daoCliente

```java
/*
 * To change this license header, choose License Headers in Project
Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */


package dao;


import java.sql.Connection;

import java.sql.PreparedStatement;

import java.sql.SQLException;

import model.Cliente;


/**
 *
 * @author Expression Tarcisio is undefined on line 12, column 14 in
Templates/Classes/Class.java.
 */
public class daoCliente {
```

```java
    public void inserirCliente(Cliente cliente){


        try(Connection conect = new Conexao().getConnection()){
            String sql = "INSERT INTO cliente (cpf, dataDeNascimento,
nomeCompleto, cnh, nivelEscolar, estadoCivil, rg, rua, cep,"
                + "cidade, numero, complemento )" + " VALUES
(?,?,?,?,?,?,?,?,?,?,?,?)";


            PreparedStatement stm = conect.prepareStatement(sql);


            stm.setString(1,  cliente.getCpf());

            stm.setString(2, cliente.getDataDeNascimento());

            stm.setString(3, cliente.getNomeCompleto());

            stm.setString(4, cliente.getCnh());

            stm.setString(5, cliente.getNivelEscolar());

            stm.setString(6, cliente.getEstadoCivil());

            stm.setString(7, cliente.getRg());

            stm.setString(8, cliente.getRua());

            stm.setString(9, cliente.getCep());

            stm.setString(10, cliente.getCidade());

            stm.setInt(11, cliente.getNumero());

            stm.setString(12, cliente.getComplemento());

            stm.execute();

            stm.close();


        }catch(SQLException e){
            throw new RuntimeException(e);
        }


    }
}
```

4.2.4.3 – daoEstoque

```java
/*
 * To change this license header, choose License Headers in Project
Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

package dao;

import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import javax.swing.JOptionPane;
import model.Estoque;
import model.Fabricante;

/**
 *
 * @author Expression Tarcisio is undefined on line 12, column 14 in
Templates/Classes/Class.java.
 */
public class daoEstoque {


    public void inserirEstoque(Estoque estoque, Fabricante fabricante){


        try(Connection conect = new Conexao().getConnection()){


            String sqlF = "SELECT id FROM fabricante WHERE marca LIKE
'%"+fabricante.getMarca().toLowerCase()+"%' AND modelo LIKE
'%"+fabricante.getModelo().toLowerCase()+"%'";
            PreparedStatement stm = conect.prepareStatement(sqlF);
```

```java
            ResultSet rs = stm.executeQuery();
             while(rs.next()){
            fabricante.setId(rs.getInt("id"));


        }
            rs.close();
            stm.close();




        String inserir = "INSERT INTO estoque (valorDeCompra, cor,
placa, valorDeVenda, rodasDeLogaLeve,"
                + "bancoEmCoro, multimidia, pinturaPerolada,
codFabricante)" + " VALUES (?,?,?,?,?,?,?,?,?)";


        PreparedStatement stmE = conect.prepareStatement(inserir);


        stmE.setFloat(1,estoque.getValorDeCompra());

        stmE.setString(2, estoque.getCor().toLowerCase());

        stmE.setString(3, estoque.getPlaca().toLowerCase());

        stmE.setFloat(4, estoque.getValorDeVenda());

        stmE.setString(5,
estoque.getRodasDeLigaLeve().toLowerCase());

        stmE.setString(6, estoque.getBancoEmCoro().toLowerCase());

        stmE.setString(7, estoque.getMultimidia().toLowerCase());

        stmE.setString(8,
estoque.getPinturaPerolada().toLowerCase());

        stmE.setInt(9, fabricante.getId());


        stmE.execute();


        JOptionPane.showMessageDialog(null, "Cadastro efetuado com
Sucesso!");
```

```
        }catch(SQLException ec){
            throw new RuntimeException(ec);
        }


    }



}
```

4.2.4.4 – daoLogin

```
/*
 * To change this license header, choose License Headers in Project
Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

package dao;

import controller.LoginController;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import model.Login;
```

```java
/**
 *
 * @author Expression Tarcisio is undefined on line 12, column 14 in
Templates/Classes/Class.java.
 */
public class daoLogin {

    public void verificarLogin(Login login){

        try(Connection connect = new Conexao().getConnection()){

            String sqlF = "SELECT usuario, senha FROM login WHERE usuario
LIKE '%"+login.getUsuario()+"%' AND senha LIKE
'%"+login.getSenha()+"%'";
            PreparedStatement stm = connect.prepareStatement(sqlF);
            ResultSet rs = stm.executeQuery();
            Login login1 = new Login();
            while(rs.next()){
                login1.setUsuario(rs.getString("usuario"));
                login1.setSenha(rs.getString("senha"));
            }

            LoginController lc = new LoginController();
            lc.validarLogin(login, login1);

        }catch(SQLException ex) {
            throw new RuntimeException(ex);
        }

    }
}
```

4.2.4.5 – daoUsuario

```java
/*
 * To change this license header, choose License Headers in Project
Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

package dao;

import java.sql.Connection;
import java.sql.PreparedStatement;
import javax.swing.JOptionPane;
import model.Usuario;

/**
 *
 * @author Expression Tarcisio is undefined on line 12, column 14 in
Templates/Classes/Class.java.
 */
public class daoUsuario {
    public void cadastrarUsuarioNoBanco(Usuario usuario){
        try(Connection conect = new Conexao().getConnection()){
            String sql = "INSERT INTO usuario" + "(cpf, email, nome,
matricula, cargo)" + " VALUES(?,?,?,?,?)";

            PreparedStatement stmt = conect.prepareStatement(sql);
            stmt.setString(1, usuario.getCpf().toLowerCase());
            stmt.setString(2, usuario.getEmail().toLowerCase());
            stmt.setString(3, usuario.getNome().toLowerCase());
            stmt.setInt(4, usuario.getMatricula());
```

```java
            stmt.setString(5, usuario.getCargo().toLowerCase());


            stmt.execute();

            JOptionPane.showMessageDialog(null, "Cadastro realizado com
sucesso!");

            stmt.close();



        }catch(Exception e){

            JOptionPane.showMessageDialog(null, "Erro ao Inserir Usuario no
Banco! Erro: " + e);

        }
    }
}
```