



**UNINABUCO**

ANÁLISE E DESENVOLVIMENTO DE SOFTWARE

TÓPICOS INTEGRADORES II

# Documentação de Projeto de Software

## Versão 1.5

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

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## Controle de Versão do Documento

Versão	Descrição
1.5	Sistema para gerenciamento de vendas de carros. Entrega final com todas as funcionalidades do Sistema. CRUD Completo mais relatórios solicitados

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# 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

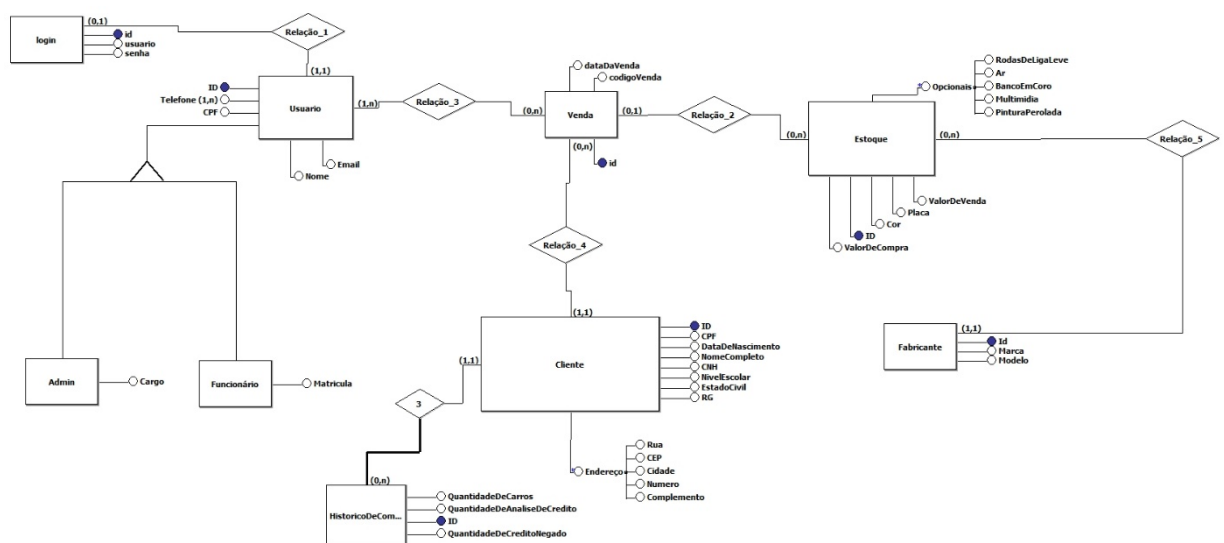
### Loja de Carros

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 referencia 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	<u>Int</u>	Sim	UN	Matricula do Usuario UNIQUE
Cargo	<u>Varchar</u>	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.

```
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) ON DELETE CASCADE
);
```

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

```
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,
```

```

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) ON DELETE CASCADE
);

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

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) ON DELETE CASCADE,
foreign key(codFabricante) references fabricante(id) ON DELETE CASCADE
);

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

use sigcar;

```

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

```
/*-----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)
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 -----*/

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');

```

```

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.

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

```
/*1 -Listar os Fabricantes, no caso como não especificou se deveria repetir  
ou não por para ficar mais limpo  
* resolver 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';
```

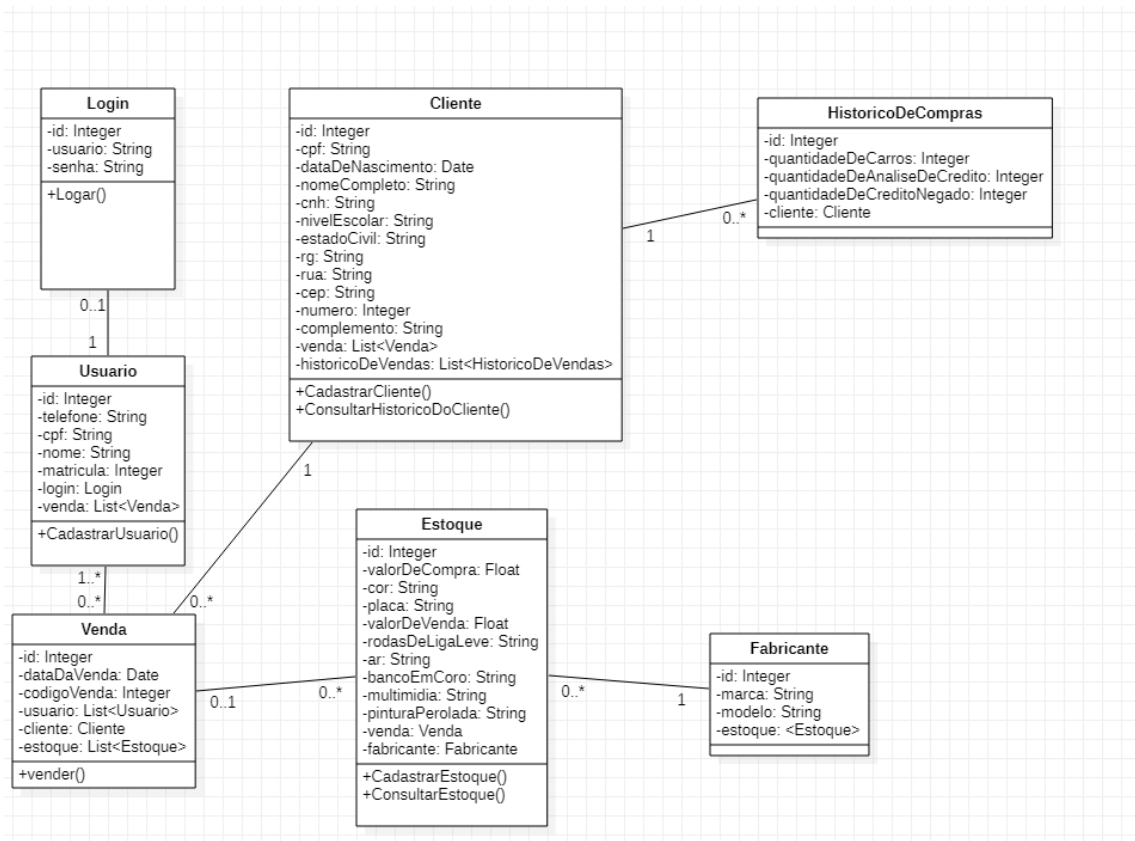
```
select *from sigcar.estoque;
```



## 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

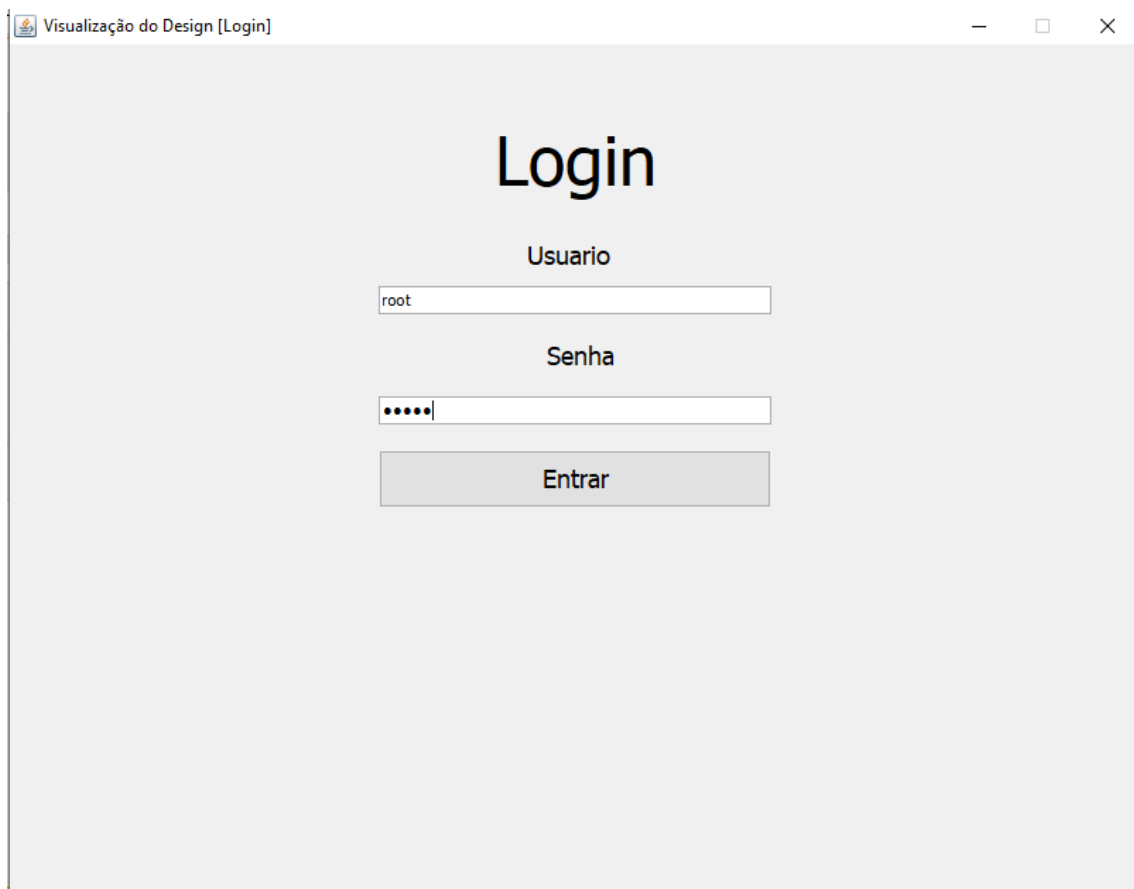
No View ficou as class: CadastroCliente, CadastroEstoque, CadastroUsuario, ConsultarCliente, ConsultarEstoque, Venda, Index, Login.

## 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.



/\*

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\* and open the template in the editor.

\*/

package view;

/\*\*

```

*
* @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);
    }

```

```
setResizable(false);
```

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

```
jLabel1.setText("Login");
```

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

```
jButtonEntrar.setText("Entrar");
```

```
jButtonEntrar.addActionListener(new  
java.awt.event.ActionListener() {
```

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

```
        jButtonEntrarActionPerformed(evt);
```

```
    }
```

```
});
```

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

```
jLabelUsuario.setText("Usuario");
```

```
jLabelUsuario.setToolTipText("");
```

```
jTextFieldUsuario.setToolTipText("Usuario");
```

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

```
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);
```

```
    }
```

$$\} );$$

```

        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)
                .addGap(342, Short.MAX_VALUE))
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
                .addGap(
                    .addComponent(jLabelUsuario)
                    .addGap(375, 375, 375))
                .addGroup(layout.createSequentialGroup()
                    .addGap(380, 380, 380)
                    .addComponent(jLabelSenha)
                    .addGap(
                        javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
                    .addGroup(layout.createSequentialGroup()
                        .addGap(
                            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))
                        .addGap(
                            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>

```

```

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

```
    } catch (InstantiationException ex) {
```

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

```
    } catch (IllegalAccessException ex) {
```

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

```
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
```

```
java.util.logging.Logger.getLogger(Login.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 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;
```

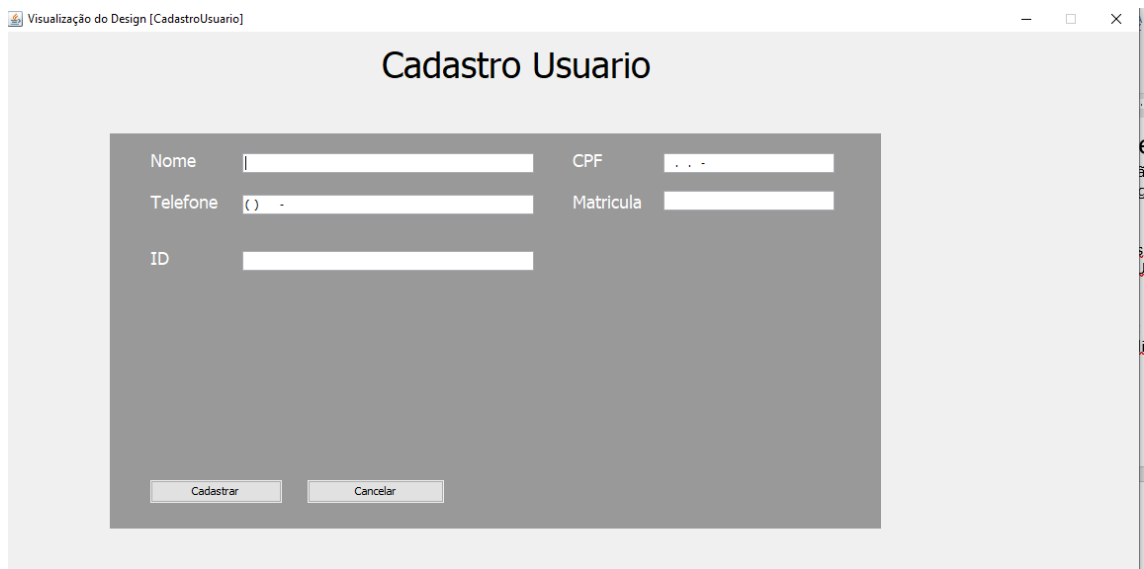
```
private javax.swing.JTextField jTextFieldUsuario;
```

```
// 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.



/\*

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\* and open the template in the editor.

\*/

package view;

/\*\*

\*

\* @author PICHAU

\*/

public class CadastroUsuario extends javax.swing.JFrame {

/\*\*

\* Creates new form CadastroUsuario

```

    */
    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();

```

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

```
    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);
```

```

    }
});

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) {

```

```

        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.LEADING)

```

```

        .addGroup(jPanel1Layout.createSequentialGroup())
        .addGap(41, 41, 41)

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

        .addComponent(jLabelNome)
        .addComponent(jLabelId)
        .addComponent(telefone))
        .addGap(25, 25, 25)

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

        .addComponent(jLabelMatricula)
        .addComponent(jLabelCPF)
        .addGap(22, 22, 22)

```

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

```
    .addGroup(jPanel1Layout.createSequentialGroup())
```

```
        .addGap(16, 16, 16)
```

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

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

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

```

        .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.Align
ment.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.Align
ment.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()

```



```

        .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:
}

```

```
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 {
```

```

        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);

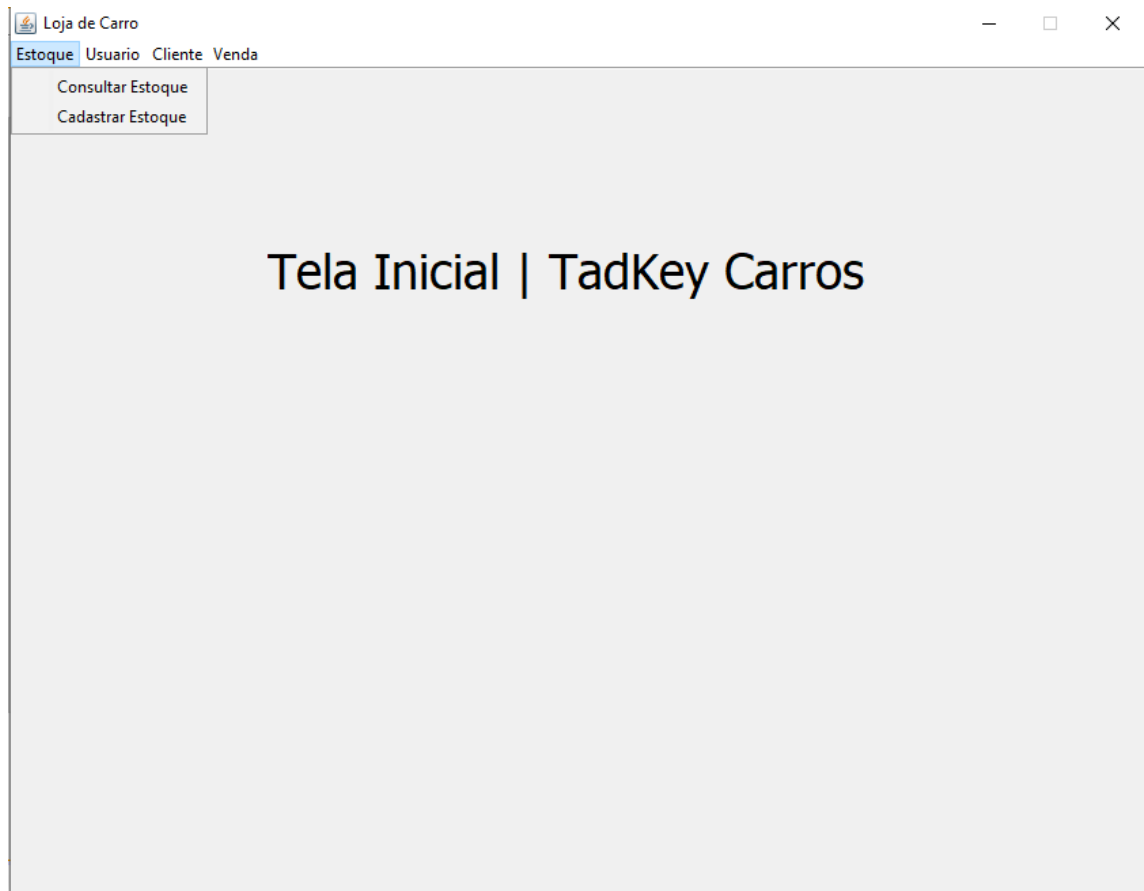
        }
    }
}
//</editor-fold>

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

```

```
// 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 {
```

```

/**
 * 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();

```

```
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.Alignment.LEADING)
```

```
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,  
        jPanelPrincipalLayout.createSequentialGroup()  
            .addGap(138, Short.MAX_VALUE)  
            .addComponent(jLabel1)  
            .addGap(113, 113, 113))  
        );  
        jPanelPrincipalLayout.setVerticalGroup(
```

```
jPanelPrincipalLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
        .addGroup(jPanelPrincipalLayout.createSequentialGroup()  
            .addGap(69, 69, 69)  
            .addComponent(jLabel1)  
            .addGap(330, Short.MAX_VALUE))  
        );
```

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

```
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);
```



```

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)
        .addGap(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)
        .addGap(108, Short.MAX_VALUE))
    );

pack();
setLocationRelativeTo(null);

```

```

} // </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.util.logging.Logger.getLogger(Index.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
```

```
    } catch (IllegalAccessException ex) {
```

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

```
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
```

```
java.util.logging.Logger.getLogger(Index.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 Index().setVisible(true);
```

```
    }
```

```
});
```

```
}
```

```
// Variables declaration - do not modify
```

```
private javax.swing.JLabel jLabel1;
```

```
private javax.swing.JMenu jMenuItem1;
```

```
private javax.swing.JMenu jMenuItem2;
```

```
private javax.swing.JMenu jMenuItem3;
```

```
private javax.swing.JMenuBar jMenuItemBarIndex;
```

```
private javax.swing.JMenu jMenuItemEstoque;
```

```
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 veículo.

```

/*

```

\* 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 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();
    }

```

```
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));
```

```

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));

```

```

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");

```



```
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");
```

```
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);  
    }  
});
```

```
});
```

```
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.
GroupLayout.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.
GroupLayout.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))

```

```
.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.G
 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.G
 GroupLayout.Alignment.BASELINE)
```

```
    .addComponent(jLabelAr)
```

```
    .addComponent(jComboBoxAr,
 javax.swing.GroupLayout.PREFERRED_SIZE,
```

```

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(

```



```

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);

```

```
}// </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:  
}
```

```

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

```
    } catch (InstantiationException ex) {
```

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

```
    } catch (IllegalAccessException ex) {
```

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

```
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
```

```
java.util.logging.Logger.getLogger(CadastroEstoque.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 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;
```

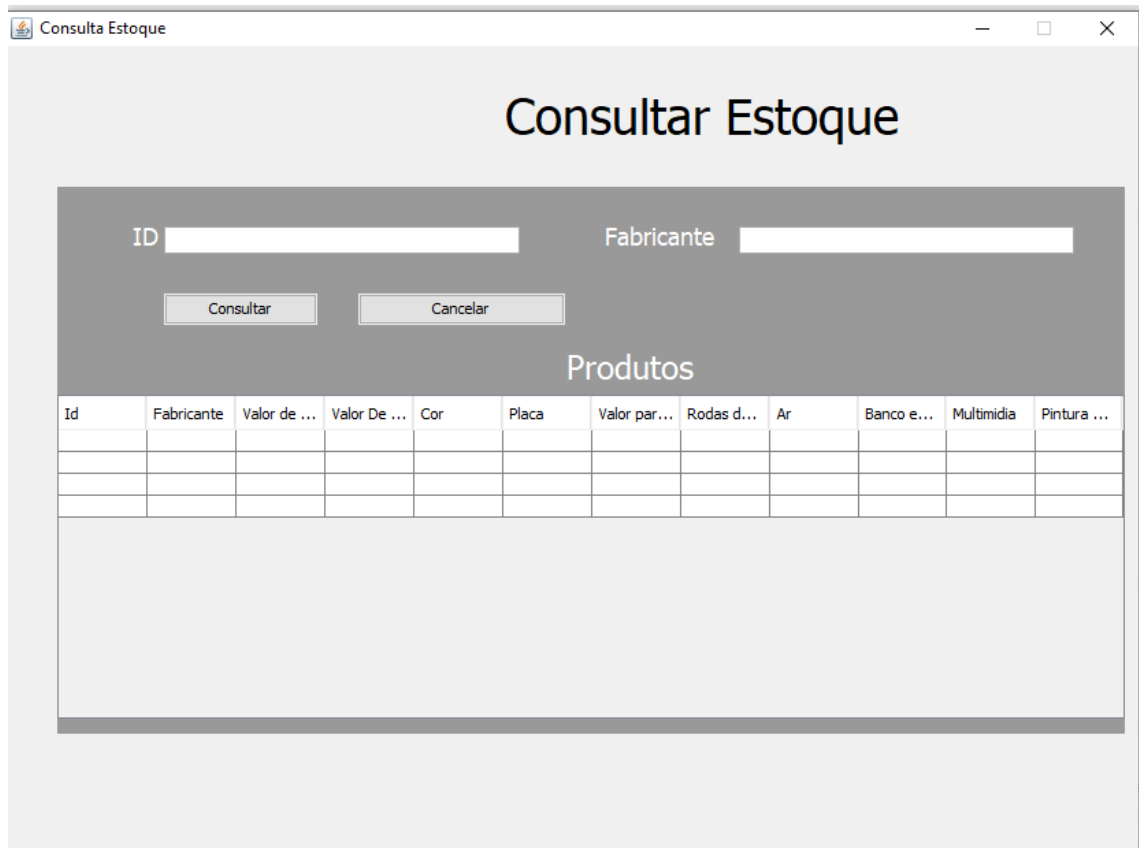
```
private javax.swing.JComboBox<String> jComboBoxBancoEmCouro;
```

```
private javax.swing.JComboBox<String> jComboBoxCor;
```

```
private javax.swing.JComboBox<String> jComboBoxMultimedia;
```

```
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 {
```

```

/**
 * 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_CLOSE);

```

```

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, 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.setViewportViewView(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.LEADING)

        .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.Alignment.LEADING)

            .addGroup(jPanel1Layout.createSequentialGroup()

```

```

        .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.Align
ment.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)

        .addGroup(layout.createSequentialGroup()

```

```

        .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[]) {

```

```

        /* 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>

```

```
/* 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.

The screenshot shows a window titled "Cadastrar Cliente" with a form for registering a client. The form has a light gray background and is centered within the window. It contains the following fields and controls:

- Nome Completo**: A text input field.
- ID**: A text input field.
- CPF**: A text input field with a placeholder for the first three digits.
- Data de Nascimento**: A text input field with a placeholder for the first two digits.
- CNH**: A text input field.
- Nivel Escolar**: A dropdown menu with "Fundamental" selected.
- Estado Civil**: A dropdown menu with "Solteiro" selected.
- RG**: A text input field with a placeholder for the first two digits.
- Rua**: A text input field.
- CEP**: A text input field with a placeholder for the first two digits.
- Número da Residencia**: A text input field.
- Complemento**: A text input field.
- Cadastrar**: A button at the bottom center.
- Cancelar**: A button at the bottom right.

/\*

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\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package view;

/\*\*

\*

\* @author PICHOU

```

*/
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();
    }

```



```
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_CLOSE);
```

```
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));
```

```
        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");
```

```
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();
```

```

    }

    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));

```

```

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");

```

```

        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()
            .addGap(10, 10, 10)
            .addGroup(jPanelCadastrarClienteLayout.createParallelGroup(javax.
swing.GroupLayout.Alignment.LEADING)
                .addComponent(jLabelNumero)
                .addComponent(jLabelRua)
                .addComponent(jLabelCPF)
                .addComponent(jLabelNomeCompleto)
                .addComponent(jLabelCNH)
                .addComponent(jLabelEstadoCivil))
            .addContainerGap(10, Short.MAX_VALUE))

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

        .addGroup(jPanelCadastrarClienteLayout.createParallelGroup(javax.
swing.GroupLayout.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))

    );

```

```

        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))
        );

```

```
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()) {
```

```

        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

```

```
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.

Visualização do Design [ConsultarCliente]

## Consultar Histórico do Cliente

ID  Nome Completo

### Resultado

Nome	CPF	ID	Quantidade de Carros...	Quantidade de Analise...	Quantidade de Credit...

/\*

\* 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 {

```

/**
 * 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_CLOSE);

```



```

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, 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.setViewportViewView(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.LEADING)

    .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.Alignment.LEADING)

        .addGroup(jPanel1Layout.createSequentialGroup()

```

```

        .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.Align
ment.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)

```

```

        .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[]) {

```

```

        /* 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>

```

```

/* 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();
```

```
    }
```



```

/**
 * 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");

```

```

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)

```

```

        .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);

```

```
}// </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.util.logging.Logger.getLogger(Venda.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
```

```
    } catch (IllegalAccessException ex) {
```

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

```
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
```

```
java.util.logging.Logger.getLogger(Venda.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 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

```
/*
 * 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{
```

```
        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);
```



```

        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.

```
*/
```

```

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

```

```
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 automatica, 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);
```

```

        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
    (?, ?, ?, ?, ?, ?, ?, ?)";

```

```

        PreparedStatement stm = c.prepareStatement(estoque);

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

        //inserir dados no estoque

    }

}

```

#### 4.2.2.3 – LoginController

```

/*
 * 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.
 */

```

```

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);
        }
    }
}

```

```

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

```

#### 4.2.2.4 – UsuarioController

```

/*
 * 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

```



```
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.

```

```
*/
```

```
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  
nívelEscolar;
```

```
    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;
```

```
    }
```

```
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;  
}
```

```
}
```

```
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() {
```

```
        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;
}
```

```

    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

```

/*
 * 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 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;
    }
}
```



```
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;  
}
```

```
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;  
}
```

```
}
```

```
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

```
/*
 * 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;
    }
}
```

```

    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

```

/*
 * 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;
```

```
/**
```

```
 *
```

```
 * @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;
```

```
}
```

```
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

```
/*
```

```
 * 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;
```

```
/**
```

```
 *
```

```
 * @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;
```



```
}
```

```
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

```
/*  
 * 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 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;  
    }  
}
```

```
}
```

```
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) {
```

```
        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

```
/*
```

```
 * 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;
```

```
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) {
```

```
        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;
}
```

```

        public void setEstoque(ArrayList<Estoque> estoque) {
            this.estoque = estoque;
        }
    }
}

```

## 4.2.4 Classes da camada DAO

### 4.2.4.1 – daoConexao

```

/*
 * 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 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() {

```

```

        try {
            return
DriverManager.getConnection("jdbc:mysql://localhost/sigcar","root", "");
        }catch(SQLException e){
            throw new RuntimeException(e);
        }
    }
}
}

```

#### 4.2.4.2 – daoCliente

```

/*
 * 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.awt.List;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.ArrayList;
import javax.swing.JOptionPane;
import jdk.nashorn.internal.scripts.JO;
import model.Cliente;
import model.HistoricoDeCompras;

```

```
/**
```



\*

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

\*/

```
public class daoCliente {
```

```
    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().toLowerCase());
```

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

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

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

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

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

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

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

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

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

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

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

```
            stm.execute();
```

```
            stm.close();
```

```
        }catch(SQLException e){
```

```
        throw new RuntimeException(e);
    }
}
```

```
public ArrayList<Cliente> consultarCliente(Cliente cliente){
    ArrayList<Cliente> lista = new ArrayList<Cliente>();

    try(Connection conexao = new Conexao().getConnection()){
        String sql = "SELECT id,cpf, nomeCompleto, cnh,nivelEscolar,
estadoCivil FROM cliente WHERE cpf LIKE"
            + " '%" + cliente.getCpf() + "%' AND nomeCompleto LIKE"
            + "'" + cliente.getNomeCompleto() + "%'";

        PreparedStatement stmt = conexao.prepareStatement(sql);
        ResultSet rs = stmt.executeQuery();

        while(rs.next()){
            Cliente cliente1 = new Cliente();
            cliente1.setId(rs.getInt("id"));
            cliente1.setCpf(rs.getString("cpf"));
            cliente1.setNomeCompleto(rs.getString("nomeCompleto"));
            cliente1.setCnh(rs.getString("cnh"));
            cliente1.setNivelEscolar(rs.getString("nivelEscolar"));
            cliente1.setEstadoCivil(rs.getString("estadoCivil"));

            lista.add(cliente1);
        }
    }
}
```

```

    }catch (SQLException e ){

        throw new RuntimeException(e);
    }

    if (lista == null){
        JOptionPane.showMessageDialog(null, "Digite um CPF ou Nome
válido!");
    }

    return lista;
}

public void excluirCliente(Cliente cliente){

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

        String sql = "DELETE FROM historicodecompras WHERE codCliente
='"+cliente.getId()+"'";

        PreparedStatement stmt = con.prepareStatement(sql);
        stmt.executeUpdate();

        /* String sql1 = "DELETE FROM venda WHERE codCliente
='"+cliente.getId()+"'";

        stmt = con.prepareStatement(sql1);
        stmt.executeUpdate();*/

        String sql2 = "DELETE FROM cliente WHERE id
='"+cliente.getId()+"' AND cpf='"+cliente.getCpf()+"'";

        stmt = con.prepareStatement(sql2);
        stmt.executeUpdate();
    }
}

```

```

    }catch(SQLException e){

        throw new RuntimeException (e);
    }

}

public void alterarCliente(Cliente cliente1, Cliente cliente){

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

        String sql = "UPDATE cliente SET nomeCompleto =
        '"+cliente.getNomeCompleto()+"' , cnh = '"+cliente.getCnh()+"' ,
        estadoCivil = '"+cliente.getEstadoCivil()+"'"
        + " WHERE nomeCompleto =
        '"+cliente1.getNomeCompleto()+"' AND cnh = '"+cliente1.getCnh()+"' ";

        PreparedStatement stmt = connn.prepareStatement(sql);
        stmt.executeUpdate();

        JOptionPane.showMessageDialog(null, "Alteração Feita com
        Sucesso");

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

}

```

```

public ArrayList<Cliente> relatorio3(){
    ArrayList<Cliente> cliente = new ArrayList<Cliente>();

    try(Connection conn = new Conexao().getConnection()){
        String sql = "SELECT nomeCompleto , cnh, dataDeNascimento
FROM cliente";
        PreparedStatement stmt = conn.prepareStatement(sql);
        ResultSet rs = stmt.executeQuery();

        while(rs.next()){
            Cliente cliente1 = new Cliente();

            cliente1.setNomeCompleto(rs.getString("nomeCompleto"));
            cliente1.setCnh(rs.getString("cnh"));

            cliente1.setDataDeNascimento(rs.getString("dataDeNascimento"));

            cliente.add(cliente1);
        }

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

    return cliente;
}

public ArrayList<HistoricoDeCompras> relatorio5(){
    ArrayList<HistoricoDeCompras> historico = new
ArrayList<HistoricoDeCompras>();

```

```

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

    String sql = "SELECT c.nomeCompleto , h.id, h.codCliente ,
h.quantidadeDeCarros, h.quantidadeDeAnaliseDeCredito,
h.quantidadeDeCreditoNegado "
        + "FROM cliente c RIGHT JOIN historicodecompras h ON c.id
= h.codCliente WHERE c.nomeCompleto = 'José Barnabé da Silva'";

    PreparedStatement stmt = cooo.prepareStatement(sql);

    ResultSet rs = stmt.executeQuery();

    while(rs.next()){
        Cliente cliente = new Cliente();
        HistoricoDeCompras hc = new HistoricoDeCompras();

        cliente.setNomeCompleto(rs.getString("c.nomeCompleto"));
        hc.setId(rs.getInt("h.id"));
        cliente.setId(rs.getInt("h.codCliente"));
        hc.setQuantidadeDeCarros(rs.getInt("h.quantidadeDeCarros"));

        hc.setQuantidadeDeAnaliseDeCreditos(rs.getInt("h.quantidadeDeAnaliseDeCredito"));

        hc.setQuantidadeDeCreditoNegado(rs.getInt("h.quantidadeDeCreditoNegado"));

        hc.setCliente(cliente);

        historico.add(hc);

    }

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

```

```
        return historico;
    }
}
```

#### 4.2.4.3 – daoEstoque

```
/*
 * 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 java.util.ArrayList;
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){

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

        String sqlF = "SELECT id FROM fabricante WHERE marca LIKE
        '%" + estoque.getFabricante().getMarca().toLowerCase() + "%' AND modelo
        LIKE '%" + estoque.getFabricante().getModelo().toLowerCase() + "%'";

        PreparedStatement stm = conect.prepareStatement(sqlF);

        ResultSet rs = stm.executeQuery();

        while(rs.next()){

            estoque.getFabricante().setId(rs.getInt("id"));

        }

        rs.close();

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

        stm = conect.prepareStatement(inserir);

        stm.setFloat(1, estoque.getValorDeCompra());
        stm.setString(2, estoque.getCor().toLowerCase());
        stm.setString(3, estoque.getPlaca().toLowerCase());
        stm.setFloat(4, estoque.getValorDeVenda());
        stm.setString(5,
        estoque.getRodasDeLogaLeve().toLowerCase());
    }
}

```



```

        stm.setString(6, estoque.getBancoEmCoro().toLowerCase());
        stm.setString(7, estoque.getMultimidia().toLowerCase());
        stm.setString(8, estoque.getPinturaPerolada().toLowerCase());
        stm.setInt(9, estoque.getFabricante().getId());

        stm.execute();

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

        stm.close();

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

public ArrayList<Estoque> setEstoque(Estoque estoque){

    ArrayList<Estoque> estoque1 = new ArrayList<Estoque>();

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

        /*if(estoque.getId() != null && estoque.getId() > 0 &&
estoque.getFabricante().getMarca().equals("")){

            sql = "SELECT e.id, f.marca , f.modelo, e.valorDeVenda, e.cor ,
e.placa , e.rodasDeLogaLeve, e.bancoEmCoro , e.multimidia ,
e.pinturaPerolada FROM estoque AS e JOIN " +

                "fabricante AS f ON e.codFabricante = f.id WHERE e.id =
"+estoque.getId()+" " ;

```

```

        }else if ((estoque.getId() == 0 || estoque.getId() == null) &&
estoque.getFabricante().getMarca() != null &&
estoque.getFabricante().getMarca().length() > 0){

            sql = "SELECT e.id, f.marca , f.modelo, e.valorDeVenda,
e.cor , e.placa , e.rodasDeLogaLeve, e.bancoEmCoro , e.multimidia ,
e.pinturaPerolada FROM estoque AS e JOIN " +

                "fabricante AS f ON e.codFabricante = f.id  WHERE f.marca
= '"+estoque.getFabricante().getMarca()+"'";

            }else if(estoque.getId() != null && estoque.getId() > 0 &&
estoque.getFabricante().getMarca() != null &&
estoque.getFabricante().getMarca().length() > 0){*/

                String sql = "SELECT e.id, f.marca , f.modelo,
e.valorDeVenda, e.cor , e.placa , e.rodasDeLogaLeve, e.bancoEmCoro ,
e.multimidia , e.pinturaPerolada FROM estoque AS e JOIN " +

                    "fabricante AS f ON e.codFabricante = f.id  WHERE e.id =
"+estoque.getId()+" AND f.marca =
 '"+estoque.getFabricante().getMarca()+"'";

                /* }else{

                    JOptionPane.showMessageDialog(null, "Não é possível fazer
consulta sem valores! Digite Algo!");

                }*/

```

```

PreparedStatement stmt = conn.prepareStatement(sql);

ResultSet rs = stmt.executeQuery();

while(rs.next()){

    Estoque estoque2 = new Estoque();
    Fabricante f2 = new Fabricante();
    estoque2.setId(rs.getInt("id"));
    f2.setMarca(rs.getString("marca"));
    f2.setModelo(rs.getString("modelo"));
    estoque2.setFabricante(f2);
    estoque2.setValorDeVenda(rs.getFloat("valorDeVenda"));
    estoque2.setCor(rs.getString("cor"));
    estoque2.setPlaca(rs.getString("placa"));

```

```
estoque2.setRodasDeLigaLeve(rs.getString("rodasDeLogaLeve"));
    estoque2.setBancoEmCoro(rs.getString("bancoEmCoro"));
    estoque2.setMultimidia(rs.getString("multimidia"));
    estoque2.setPinturaPerolada(rs.getString("pinturaPerolada"));

    estoque1.add(estoque2);
```

```
}
```

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

```
return estoque1;
}
```

```
public ArrayList<Fabricante> listarFabricantes(){
    ArrayList<Fabricante> fabri = new ArrayList<Fabricante>();

    try(Connection con = new Conexao().getConnection()){
        String sql = "SELECT DISTINCT marca FROM fabricante;";
        PreparedStatement stmt = con.prepareStatement(sql);
        ResultSet rs = stmt.executeQuery();
        while(rs.next()){
            Fabricante fabricante = new Fabricante();
```

```

        fabricante.setMarca(rs.getString("marca"));

        fabri.add(fabricante);
    }

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

return fabri;
}

```

```

public ArrayList<Fabricante> relatorio2(){
    ArrayList<Fabricante> fabricante = new ArrayList<Fabricante>();

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

        String sql = "SELECT DISTINCT f.modelo, count(e.codFabricante)
FROM estoque e INNER JOIN fabricante f ON e.id = f.id GROUP BY modelo";

        PreparedStatement stmt = coonexao.prepareStatement(sql);
        ResultSet rs = stmt.executeQuery();

        while (rs.next()) {
            Fabricante fabricante1 = new Fabricante();
            fabricante1.setModelo(rs.getString("f.modelo"));
            fabricante1.setId(rs.getInt("count(e.codFabricante)"));
            fabricante.add(fabricante1);
        }

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

```

```

    }

    return fabricante;
}

public ArrayList<Estoque> ralatorio4(){
    ArrayList<Estoque> estoque1 = new ArrayList<Estoque>();

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

        String sql = "SELECT placa , cor, valorDeVenda FROM estoque";
        PreparedStatement stmt = coo.prepareStatement(sql);
        ResultSet rs = stmt.executeQuery();

        while(rs.next()){
            Estoque estoque2 = new Estoque();

            estoque2.setPlaca(rs.getString("placa"));
            estoque2.setCor(rs.getString("cor"));
            estoque2.setValorDeVenda(rs.getFloat("valorDeVenda"));

            estoque1.add(estoque2);
        }

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

    return estoque1;
}

```

```
}
```

#### 4.2.4.4 – daoLogin

```
/*
```

```
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```

```
 * 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;
```

```
/**
```

```
 *
```

```
 * @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

```
/*
```

```
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Properties.
```

```
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```

```
 * and open the template in the editor.
```

```
*/
```

```
package dao;
```

```

import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import javax.swing.JOptionPane;
import model.Login;
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()){

            //INSERIRNDON NA TABELA USUARIO

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

            stmt.execute();

            //PEGONDO ID DE USUARIO

```



```

        String sql1 = "SELECT id FROM usuario WHERE cpf LIKE
'%" + usuario.getCpf() + "%'";

        stmt = conect.prepareStatement(sql1);

        ResultSet rs = stmt.executeQuery();

        while(rs.next()){

            usuario.setId(rs.getInt("id"));

        }

        rs.close();

//INSERINDO USUARIO NA TABELA LOGIN

        String login1 = "INSERT INTO login" + "(usuario, senha,
codUsuario)" + " VALUES(?,?,?)";

        stmt = conect.prepareStatement(login1);

        stmt.setString(1, usuario.getLogin().getUsuario());
        stmt.setString(2, usuario.getLogin().getSenha());
        stmt.setInt(3, usuario.getId());

        stmt.execute();

//Mensagem de confirmação

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

//fechando o PreparedStatement

        stmt.close();

    }catch(Exception e){

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

    }

}

public void cadastrarLogin(Usuario usuario ,Login login){

```

```
    }  
}
```

#### 4.2.4.6 -daoVenda

```
/*  
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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 java.util.Calendar;  
import javax.swing.JOptionPane;  
import model.Cliente;  
import model.Estoque;  
import model.Usuario;
```

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

```
public void vender(Cliente cliente){

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

        String sql = "INSERT INTO venda (dataDaVenda, codCliente) VALUES
        (?,?)";

        PreparedStatement stmt = conn.prepareStatement(sql);

        java.sql.Date dataParaGravar = new
        java.sql.Date(Calendar.getInstance().getTimeInMillis());

        stmt.setDate(1, dataParaGravar);

        stmt.setInt(2, cliente.getId());

        stmt.execute();

    }catch(SQLException e){

        throw new RuntimeException (e);

    }

    JOptionPane.showMessageDialog(null, "Venda Realizada com
    Sucesso");

}

}
```