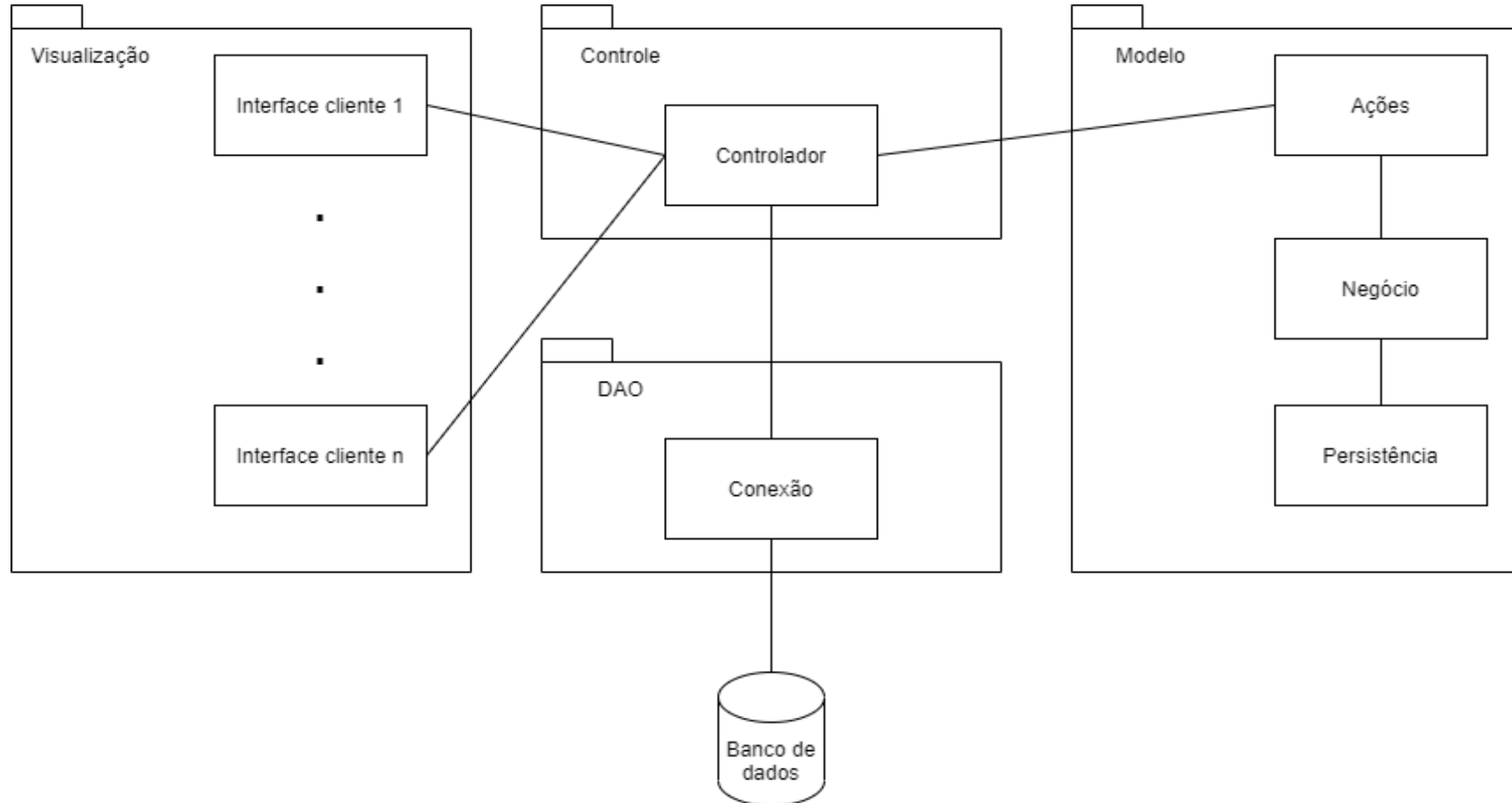


Prj MVC-DAO

Carlos Arruda Baltazar
UNIP – Cidade Universitária



Meu primeiro projeto Java/SQL

id teste

```
package Pck_Model;

public class TesteModel
{
    private int pkId;
    private String dsTeste;

    public TesteModel()
    {

    }

    public int getPkId() {
        return pkId;
    }

    public void setPkId(int pkId) {
        this.pkId = pkId;
    }

    public String getDsTeste() {
        return dsTeste;
    }

    public void setDsTeste(String dsTeste) {
        this.dsTeste = dsTeste;
    }
}
```

```
package Pck_DAO;

import java.sql.Connection;

public class MySqlConnection
{
    private static String status = "Não conectou...";
    private static String serverName = "127.0.0.1";
    private static String mydatabase = "lpbd";
    private static String url = "jdbc:mysql://" + serverName + "/" + mydatabase;
    private static String username = "aluno";
    private static String password = "4@11";

    public MySqlConnection() {}

    public java.sql.Connection getMySqlConnection()
    {
        Connection connection = null;
        try
        {
            String driverName = "com.mysql.jdbc.Driver";
            Class.forName(driverName);
            connection = DriverManager.getConnection(url, username, password);
            if (connection != null)
            {
                status = ("STATUS--->Conectado com sucesso!");
                System.out.println(status);
            }
            else
            {
                status = ("STATUS--->Não foi possível realizar conexão");
                System.out.println(status);
            }
            return connection;
        }
        catch (ClassNotFoundException e)
        {
            System.out.println("O driver especificado não foi encontrado.");
            return null;
        }
        catch (SQLException e)
        {
            System.out.println("Não foi possível conectar ao Banco de Dados.");
            return null;
        }
    }
}
```

```
public String statusConection()
{
    return status;
}

public boolean CloseConnection()
{
    try
    {
        this.getMySqlConnection().close();
        return true;
    }
    catch (SQLException e)
    {
        return false;
    }
}

public java.sql.Connection RestartConnection()
{
    this.CloseConnection();
    return this.getMySqlConnection();
}
```

```
package Pck_View;

import java.awt.Dimension;

public class MyWindow extends JFrame
{
    private JLabel jl_teste, jl_id;
    private JTextField jtf_teste, jtf_id;
    private JTextArea jta_read;
    private JButton jb_insert, jb_update, jb_remove, jb_read;

    private TesteController testeController;

    public MyWindow()
    {
        this.testeController = new TesteController();

        this.CreateGUI();
        this.CreateEvents();
    }
}
```

```
public void CreateGUI()
{
    this.setSize(new Dimension(600, 600));
    this.setTitle("Meu primeiro projeto Java/SQL");
    this.setDefaultCloseOperation(EXIT_ON_CLOSE);
    this.setLayout(new FlowLayout());

    this.jl_id = new JLabel("id");
    this.jl_id.setPreferredSize(new Dimension(120,30));
    this.getContentPane().add(jl_id);

    this.jtf_id = new JTextField();
    this.jtf_id.setPreferredSize(new Dimension(120,30));
    this.getContentPane().add(jtf_id);

    this.jl_teste = new JLabel("teste");
    this.jl_teste.setPreferredSize(new Dimension(120,30));
    this.getContentPane().add(jl_teste);

    this.jtf_teste = new JTextField();
    this.jtf_teste.setPreferredSize(new Dimension(120,30));
    this.getContentPane().add(jtf_teste);

    this.jb_insert = new JButton("Inserir");
    this.jb_insert.setPreferredSize(new Dimension(120,30));
    this.getContentPane().add(jb_insert);

    this.jb_update = new JButton("Alterar");
    this.jb_update.setPreferredSize(new Dimension(120,30));
    this.getContentPane().add(jb_update);

    this.jb_remove = new JButton("Excluir");
    this.jb_remove.setPreferredSize(new Dimension(120,30));
    this.getContentPane().add(jb_remove);

    this.jb_read = new JButton("Ler");
    this.jb_read.setPreferredSize(new Dimension(120,30));
    this.getContentPane().add(jb_read);

    this.jta_read = new JTextArea();
    this.jta_read.setPreferredSize(new Dimension(120,240));
    this.getContentPane().add(jta_read);
}
```

```
public void CreateEvents()
{
    this.jb_insert.addActionListener(new ActionListener()
    {
        public void actionPerformed(ActionEvent e)
        {
            testeController.InsertTeste(jtf_teste.getText());
        }
    });

    this.jb_update.addActionListener(new ActionListener()
    {
        public void actionPerformed(ActionEvent e)
        {
            testeController.UpdateTeste(Integer.parseInt(jtf_id.getText()),
                                           jtf_teste.getText());
        }
    });

    this.jb_remove.addActionListener(new ActionListener()
    {
        public void actionPerformed(ActionEvent e)
        {
            testeController.DeleteTeste(Integer.parseInt(jtf_id.getText()));
        }
    });

    this.jb_read.addActionListener(new ActionListener()
    {
        public void actionPerformed(ActionEvent e)
        {
            jta_read.setText(testeController.ReadTeste());
        }
    });
}
```

```
package Pck_View;

public class Main
{
    public static void main(String [] args)
    {
        MyWindow myWindow = new MyWindow();
        myWindow.setVisible(true);
    }
}
```

```
package Pck_Controller;

import java.sql.PreparedStatement;

public class TesteController
{
    private MySqlConnection mySqlConnection;
    private PreparedStatement preparedStatement;
    private TesteModel testeModel;
    private ResultSet resultSet;
    private String insertQuery = "INSERT INTO teste (ds_teste) VALUES(?);";
    private String updateQuery = "UPDATE teste SET ds_teste = ? WHERE pk_id = ?;";
    private String deleteQuery = "DELETE FROM teste WHERE pk_id = ?;";
    private String readQuery = "SELECT * FROM teste;";

    public TesteController ()
    {
        this.mySqlConnection = new MySqlConnection();
        this.testeModel = new TesteModel();
    }
}
```

```
public void InsertTeste(String dsTeste)
{
    this.testeModel.setDsTeste(dsTeste);

    try
    {
        this.preparedStatement = this.mySqlConnection.getMySqlConnection().prepareStatement(insertQuery);
        this.preparedStatement.setString (1, testeModel.getDsTeste());
        this.preparedStatement.execute();

        this.mySqlConnection.closeConnection();
    }
    catch (SQLException e)
    {
        System.out.println("Query error: " + e.toString());
    }
}

public void UpdateTeste(int pkId, String dsTeste)
{
    this.testeModel.setPkId(pkId);
    this.testeModel.setDsTeste(dsTeste);
    try
    {
        this.preparedStatement = this.mySqlConnection.getMySqlConnection().prepareStatement(updateQuery);
        this.preparedStatement.setString (1, testeModel.getDsTeste());
        this.preparedStatement.setInt(2, testeModel.getPkId());
        this.preparedStatement.execute();

        this.mySqlConnection.closeConnection();
    }
    catch (SQLException e)
    {
        System.out.println("Query error: " + e.toString());
    }
}
```



```
public void DeleteTeste(int pkId)
{
    this.testeModel.setPkId(pkId);
    try
    {
        this.preparedStatement = this.mySqlConnection.getMySqlConnection().prepareStatement(deleteQuery);
        this.preparedStatement.setInt(1, testeModel.getPkId());
        this.preparedStatement.execute();

        this.mySqlConnection.CloseConnection();
    }
    catch (SQLException e)
    {
        System.out.println("Query error: " + e.toString());
    }
}

public String ReadTeste()
{
    String result = "";
    try
    {
        this.resultSet = this.mySqlConnection.getMySqlConnection().createStatement().executeQuery(readQuery);

        result += "id\tteste\n";

        while (this.resultSet.next())
        {
            result += this.resultSet.getInt("pk_id") + "\t" + this.resultSet.getString("ds_teste") + "\n";
        }

        this.mySqlConnection.CloseConnection();

        return result;
    }
    catch (SQLException e)
    {
        System.out.println("Query error: " + e.toString());

        return result;
    }
}
```

OBRIGADO