

MATERIAL DE APOIO – CODIGOS

PARA APLICACAO DESKTOP

Criando o arquivo ExemploRelatorio.java

```
import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.InputStream;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.util.HashMap;
import java.util.Map;

import net.sf.jasperreports.engine.JRException;
import net.sf.jasperreports.engine.JasperExportManager;
import net.sf.jasperreports.engine.JasperFillManager;
import net.sf.jasperreports.engine.JasperPrint;

public class ExemploRelatorio {

    public static void main(String[] args) {

        try {
            Class.forName("org.postgresql.Driver");
            Connection con =
DriverManager.getConnection("jdbc:postgresql://localhost:5432/treinamento", "postgres",
"123456");

            InputStream streamRelatorio = new FileInputStream("teste.jasper");
            Map<String, Object> parametros= new HashMap<String, Object>();

            parametros.put("subtitulo", "um exemplo de parametro ...");

            JasperPrint impressao = JasperFillManager.fillReport(streamRelatorio, parametros, con);
            JasperExportManager.exportReportToPdfFile(impressao, "relatorio.pdf");
        } catch (FileNotFoundException e) {
            e.printStackTrace();
        } catch (ClassNotFoundException e) {
            e.printStackTrace();
        } catch (SQLException e) {
            e.printStackTrace();
        } catch (JRException e) {
            e.printStackTrace();
        }
    }

}
```

PARA APLICAÇÃO WEB

Faces-Config.xml

```
<?xml version="1.0" encoding="UTF-8"?>

<faces-config
    xmlns="http://java.sun.com/xml/ns/javaee"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-facesconfig_1_2.xsd"
    version="1.2">

    <managed-bean>
        <description>
            DESCRICAO AQUI...
        </description>
        <managed-bean-name>exemploRelatorioFaces</managed-bean-name>
        <managed-bean-class>exemplo.ExemploRelatorioFaces</managed-bean-class>
        <managed-bean-scope>session</managed-bean-scope>
    </managed-bean>

</faces-config>
```

Web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://java.sun.com/xml/ns/javaee" xmlns:web="http://java.sun.com/xml/ns/
javaee/web-app_2_5.xsd" xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd" id="WebApp_ID" version="2.5">
    <display-name>relatorioWeb</display-name>
    <welcome-file-list>
        <welcome-file>index.html</welcome-file>
        <welcome-file>index.htm</welcome-file>
        <welcome-file>index.jsp</welcome-file>
        <welcome-file>default.html</welcome-file>
        <welcome-file>default.htm</welcome-file>
        <welcome-file>default.jsp</welcome-file>
    </welcome-file-list>
    <servlet>
        <servlet-name>Faces Servlet</servlet-name>
        <servlet-class>javax.faces.webapp.FacesServlet</servlet-class>
        <load-on-startup>1</load-on-startup>
    </servlet>
    <servlet-mapping>
        <servlet-name>Faces Servlet</servlet-name>
        <url-pattern>*.faces</url-pattern>
    </servlet-mapping>
</web-app>
```

Crie o arquivo ExemploRelatorioFaces

```
package exemplo;

import java.io.IOException;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
```

```

import java.util.HashMap;
import java.util.Map;

import javax.faces.event.ActionEvent;

import net.sf.jasperreports.engine.JRException;

public class ExemploRelatorioFaces {

    public void gerarRelatorio(ActionEvent evento){

        try {
            Class.forName("org.postgresql.Driver");
            Connection con =
DriverManager.getConnection("jdbc:postgresql://localhost:5432/treinamento",
"postgres", "123456");
            Map<String, Object> parametros= new HashMap<String, Object>();
            UtilFacesRelatorios.gerarRelatorioFaces("teste.jasper", con,
parametros);
        } catch (ClassNotFoundException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        } catch (SQLException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        } catch (IOException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        } catch (JRException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }
    }

}

```

Crie a classe UtilFacesRelatorios

```

package exemplo;
import java.io.IOException;
import java.io.InputStream;
import java.sql.Connection;
import java.util.Collection;
import java.util.Map;

import javax.faces.context.FacesContext;
import javax.servlet.ServletContext;
import javax.servlet.ServletOutputStream;
import javax.servlet.http.HttpServletResponse;

import net.sf.jasperreports.engine.JRException;
import net.sf.jasperreports.engine.JasperExportManager;
import net.sf.jasperreports.engine.JasperFillManager;
import net.sf.jasperreports.engine.JasperPrint;
import net.sf.jasperreports.engine.data.JRBeanCollectionDataSource;

public class UtilFacesRelatorios {

    public static void gerarRelatorioFaces(String caminhoRelatorio, Collection
dados, Map parametros) throws IOException, JRException {
        FacesContext context = FacesContext.getCurrentInstance();
        JRBeanCollectionDataSource dataSource = new
JRBeanCollectionDataSource(dados);

```

```

        HttpServletResponse response = (HttpServletResponse)
context.getExternalContext().getResponse();
        ServletOutputStream out = response.getOutputStream();
        InputStream streamRelatorio =
context.getExternalContext().getResourceAsStream(caminhoRelatorio);
        JasperPrint impressao = JasperFillManager.fillReport(streamRelatorio,
parametros, dataSource);
        JasperExportManager.exportReportToPdfStream(impressao, out);
        out.close();
        context.responseComplete();
    }

    public static void gerarRelatorioFaces(String caminhoRelatorio, Connection
con, Map parametros) throws IOException, JRException {
        FacesContext context = FacesContext.getCurrentInstance();
        HttpServletResponse response = (HttpServletResponse)
context.getExternalContext().getResponse();
        ServletOutputStream out = response.getOutputStream();
        InputStream streamRelatorio =
context.getExternalContext().getResourceAsStream(caminhoRelatorio);
        JasperPrint impressao = JasperFillManager.fillReport(streamRelatorio,
parametros, con);
        JasperExportManager.exportReportToPdfStream(impressao, out);
        out.close();
        context.responseComplete();
    }

    public static String getCaminhoContexto(String nomeRecurso) {
        FacesContext context = FacesContext.getCurrentInstance();
        String caminho = ((ServletContext)
context.getExternalContext().getContext()).getRealPath(nomeRecurso);
        if (caminho == null) {
            throw new RuntimeException("arquivo:" + nomeRecurso + " inexistente");
        }
        String separador = System.getProperty("file.separator");
        return caminho + separador;
    }
}

```

Crie o Arquivo exemplo.jsp

```

<%@ taglib uri="http://java.sun.com/jsf/core" prefix="f" %>
<%@ taglib uri="http://java.sun.com/jsf/html" prefix="h" %>
<html>
<head>
<title>
</title>
</head>
<body bgcolor="#ffffff">

<f:view>
    <h:form>

        <h:commandButton
actionListener="#{exemploRelatorioFaces.gerarRelatorio}" value="gerar"/>

    </h:form>
</f:view>
</body>
</html>

```