**ASSOCIAÇÃO EDUCACIONAL DE VITÓRIA**

**FACULDADES INTEGRADAS SÃO PEDRO**

**CURSO SUPERIOR DE TECNOLOGIA EM REDES DE COMPUTADORES**

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**TRABALHO – PROJETO INTEGRADOR – II A**

**VITÓRIA**

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Trabalho acadêmico do Curso superior de tecnologia em Redes de Computadores, apresentado às Faculdades Integradas São Pedro como parte das exigências da disciplina Projeto Integrador, sob orientação do(a) professor(a) LORENA PIZA ARNDT.

**VITÓRIA**

**2021**

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1. INTRODUÇÃO

A seguir está o código do referido trabalho no qual foi utilizado o JavaFX e a aplicação SWING para fazer a interface gráfica.

|  |
| --- |
| C:\Users\mathe\OneDrive\Documentos\NetBeansProjects\TrabalhoProjetoIntegrador\src\com\faesa\trabalho\TelaProjetoIntegrador.java |

1 /\*

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

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

4 \* and open the template in the editor.

5 \*/

6 package com.faesa.trabalho;

7

8 import java.awt.Color;

9 import java.util.Set;

10 import javax.swing.table.DefaultTableModel;

11 import javax.swing.JOptionPane;

12 /\*\*

13 \*

14 \* **@author** mathe

15 \*/

16 public class **TelaProjetoIntegrador** extends javax.swing.JFrame {

17

18 /\*\*

19 \* Creates new form TelaProjetoIntegrador

20 \*/

21 public **TelaProjetoIntegrador**() {

22 initComponents();

23 }

24

25 /\*\*

26 \* **This** **method** **is** **called** **from** **within** **the** **constructor** **to** **initialize** **the** **form.**

27 \* WARNING: Do NOT modify this code. The content of this method is always

28 \* regenerated by the Form Editor.

29 \*/

30 @SuppressWarnings("unchecked")

31 // <editor-fold defaultstate="collapsed" desc="Generated Code">

32 private void **initComponents**() {

33

34 jPanel1 = new javax.swing.JPanel();

35 jLabel1 = new javax.swing.JLabel();

36 jLabel2 = new javax.swing.JLabel();

37 jLabel3 = new javax.swing.JLabel();

38 jLabel4 = new javax.swing.JLabel();

39 jLabel5 = new javax.swing.JLabel();

40 btnInsert = new javax.swing.JButton();

41 txtQntd = new javax.swing.JTextField();

42 txtNome = new javax.swing.JTextField();

43 txtNota1 = new javax.swing.JTextField();

44 txtNota2 = new javax.swing.JTextField();

45 txtNota3 = new javax.swing.JTextField();

46 jLabel6 = new javax.swing.JLabel();

47 lblQntdaluno = new javax.swing.JLabel();

48 btnApagar = new javax.swing.JButton();

49 jPanel2 = new javax.swing.JPanel();

50 jScrollPane1 = new javax.swing.JScrollPane();

51 jTable1 = new javax.swing.JTable();

52

53 setDefaultCloseOperation(javax.swing.WindowConstants.*EXIT\_ON\_CLOSE*);

54

55 jLabel1.setText("Qntd de alunos");

56

57 jLabel2.setText("Nome ");

58

59 jLabel3.setText("Nota1");

60

61 jLabel4.setText("Nota2");

62

63 jLabel5.setText("Nota3");

64

65 btnInsert.setText("INSERIR");

66 btnInsert.addActionListener(new java.awt.event.ActionListener() {

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

68 btnInsertActionPerformed(evt);

69 }

70 });

71

72 txtQntd.addActionListener(new java.awt.event.ActionListener() {

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

74 txtQntdActionPerformed(evt);

75 }

76 });

77

78 txtNome.addActionListener(new java.awt.event.ActionListener() {

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

80 txtNomeActionPerformed(evt);

81 }

82 });

83

84 jLabel6.setText("Total de alunos:");

85

86 btnApagar.setText("APAGAR");

87 btnApagar.addActionListener(new java.awt.event.ActionListener() {

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

89 btnApagarActionPerformed(evt);

90 }

91 });

92

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

94 jPanel1.setLayout(jPanel1Layout);

95 jPanel1Layout.setHorizontalGroup(

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

97 .addGroup(jPanel1Layout.createSequentialGroup()

98 .addGap(26, 26, 26)

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

100 .addGroup(jPanel1Layout.createSequentialGroup()

101 .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.*Alignment*.*TRAILING*)

102 .addComponent(txtQntd, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 72, javax.swing.GroupLayout.*PREFERRED\_SIZE*)

103 .addComponent(jLabel1))

104 .addGap(97, 97, 97)

105 .addComponent(jLabel2)

106 .addGap(115, 115, 115)

107 .addComponent(jLabel3)

108 .addGap(119, 119, 119)

109 .addComponent(jLabel4)

110 .addPreferredGap(javax.swing.LayoutStyle.*ComponentPlacement*.*RELATED*, javax.swing.GroupLayout.*DEFAULT\_SIZE*, Short.*MAX\_VALUE*)

111 .addComponent(jLabel5)

112 .addGap(72, 72, 72))

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

114 .addComponent(btnInsert, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 84, javax.swing.GroupLayout.*PREFERRED\_SIZE*)

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

116 .addGroup(jPanel1Layout.createSequentialGroup()

117 .addPreferredGap(javax.swing.LayoutStyle.*ComponentPlacement*.*UNRELATED*)

118 .addComponent(btnApagar)

119 .addPreferredGap(javax.swing.LayoutStyle.*ComponentPlacement*.*RELATED*, javax.swing.GroupLayout.*DEFAULT\_SIZE*, Short.*MAX\_VALUE*)

120 .addComponent(jLabel6)

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

122 .addComponent(lblQntdaluno, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 44, javax.swing.GroupLayout.*PREFERRED\_SIZE*)

123 .addGap(116, 116, 116))

124 .addGroup(jPanel1Layout.createSequentialGroup()

125 .addGap(64, 64, 64)

126 .addComponent(txtNome, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 72, javax.swing.GroupLayout.*PREFERRED\_SIZE*)

127 .addGap(81, 81, 81)

128 .addComponent(txtNota1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 72, javax.swing.GroupLayout.*PREFERRED\_SIZE*)

129 .addGap(81, 81, 81)

130 .addComponent(txtNota2, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 72, javax.swing.GroupLayout.*PREFERRED\_SIZE*)

131 .addPreferredGap(javax.swing.LayoutStyle.*ComponentPlacement*.*RELATED*, 73, Short.*MAX\_VALUE*)

132 .addComponent(txtNota3, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 72, javax.swing.GroupLayout.*PREFERRED\_SIZE*)

133 .addGap(51, 51, 51))))))

134 );

135 jPanel1Layout.setVerticalGroup(

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

137 .addGroup(jPanel1Layout.createSequentialGroup()

138 .addContainerGap()

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

140 .addComponent(jLabel2)

141 .addComponent(jLabel3)

142 .addComponent(jLabel4)

143 .addComponent(jLabel5)

144 .addComponent(jLabel1))

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

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

147 .addComponent(txtQntd, javax.swing.GroupLayout.*PREFERRED\_SIZE*, javax.swing.GroupLayout.*DEFAULT\_SIZE*, javax.swing.GroupLayout.*PREFERRED\_SIZE*)

148 .addComponent(txtNome, javax.swing.GroupLayout.*PREFERRED\_SIZE*, javax.swing.GroupLayout.*DEFAULT\_SIZE*, javax.swing.GroupLayout.*PREFERRED\_SIZE*)

149 .addComponent(txtNota1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, javax.swing.GroupLayout.*DEFAULT\_SIZE*, javax.swing.GroupLayout.*PREFERRED\_SIZE*)

150 .addComponent(txtNota2, javax.swing.GroupLayout.*PREFERRED\_SIZE*, javax.swing.GroupLayout.*DEFAULT\_SIZE*, javax.swing.GroupLayout.*PREFERRED\_SIZE*)

151 .addComponent(txtNota3, javax.swing.GroupLayout.*PREFERRED\_SIZE*, javax.swing.GroupLayout.*DEFAULT\_SIZE*, javax.swing.GroupLayout.*PREFERRED\_SIZE*))

152 .addPreferredGap(javax.swing.LayoutStyle.*ComponentPlacement*.*RELATED*, 68, Short.*MAX\_VALUE*)

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

154 .addComponent(btnInsert)

155 .addComponent(jLabel6)

156 .addComponent(lblQntdaluno, javax.swing.GroupLayout.*PREFERRED\_SIZE*, 23, javax.swing.GroupLayout.*PREFERRED\_SIZE*)

157 .addComponent(btnApagar))

158 .addGap(28, 28, 28))

159 );

160

161 jTable1.setModel(new javax.swing.table.DefaultTableModel(

162 new Object [][] {

163

164 },

165 new String [] {

166 "NOME", "NOTA1", "NOTA2", "NOTA3", "TOTAL", "RESULTADO"

167 }

168 ));

169 jScrollPane1.setViewportView(jTable1);

170

171 javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);

172 jPanel2.setLayout(jPanel2Layout);

173 jPanel2Layout.setHorizontalGroup(

174 jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.*Alignment*.*LEADING*)

175 .addComponent(jScrollPane1)

176 );

177 jPanel2Layout.setVerticalGroup(

178 jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.*Alignment*.*LEADING*)

179 .addComponent(jScrollPane1)

180 );

181

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

183 getContentPane().setLayout(layout);

184 layout.setHorizontalGroup(

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

186 .addGroup(javax.swing.GroupLayout.*Alignment*.*TRAILING*, layout.createSequentialGroup()

187 .addGap(0, 0, Short.*MAX\_VALUE*)

188 .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.*Alignment*.*LEADING*, false)

189 .addComponent(jPanel2, javax.swing.GroupLayout.*DEFAULT\_SIZE*, javax.swing.GroupLayout.*DEFAULT\_SIZE*, Short.*MAX\_VALUE*)

190 .addComponent(jPanel1, javax.swing.GroupLayout.*DEFAULT\_SIZE*, javax.swing.GroupLayout.*DEFAULT\_SIZE*, Short.*MAX\_VALUE*)))

191 );

192 layout.setVerticalGroup(

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

194 .addGroup(layout.createSequentialGroup()

195 .addComponent(jPanel1, javax.swing.GroupLayout.*PREFERRED\_SIZE*, javax.swing.GroupLayout.*DEFAULT\_SIZE*, javax.swing.GroupLayout.*PREFERRED\_SIZE*)

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

197 .addComponent(jPanel2, javax.swing.GroupLayout.*DEFAULT\_SIZE*, javax.swing.GroupLayout.*DEFAULT\_SIZE*, Short.*MAX\_VALUE*))

198 );

199

200 pack();

201 }// </editor-fold>

202

203 private void **btnInsertActionPerformed**(java.awt.event.ActionEvent evt) {

204 // TODO add your handling code here:

205

206

207 String nome = txtNome.getText();

208 int qntd = Integer.*parseInt*(txtQntd.getText());

209 float ntum = Float.*parseFloat*(txtNota1.getText());

210 float ntdois = Float.*parseFloat*(txtNota2.getText());

211 float nttres = Float.*parseFloat*(txtNota3.getText());

212 float t = (ntum + ntdois + nttres);

213 String a;

214

215

216

217

218 lblQntdaluno.setText(txtQntd.getText());

219

220

221

222 if (t<50) {

223 a = "Reprovado";

224 } else {

225 if ((t>=50 && t<60)) {

226 a = "Prova Final";

227 } else {

228 a = "Aprovado";

229 }

230 }

231

232 if (ntum > 30) {

233 JOptionPane.*showMessageDialog*(this, "A nota máxima do 1ª trimestre é 30!");

234 }

235

236 if (ntdois > 30) {

237 JOptionPane.*showMessageDialog*(this, "A nota máxima do 2º trimestre é 30!");

238 }

239

240 if (nttres > 40) {

241 JOptionPane.*showMessageDialog*(this, "A nota máxima do 3º trimestre é 40!");

242 }

243

244

245 DefaultTableModel tab = (DefaultTableModel)jTable1.getModel();

246 Object[] dados = {nome, ntum, ntdois, nttres, t, a};

247 tab.addRow(dados);

248

249

250 if (qntd >= 1 ) {

251 txtQntd.setEditable(false);

252 txtQntd.setBackground(Color.*gray*);

253

254 }

255

256

257 txtNome.setText(" ");

258 txtNota1.setText(" ");

259 txtNota2.setText(" ");

260 txtNota3.setText(" ");

261

262 txtNome.requestFocus();

263

264

265 }

266

267 private void **txtNomeActionPerformed**(java.awt.event.ActionEvent evt) {

268 // TODO add your handling code here:

269 }

270

271 private void **txtQntdActionPerformed**(java.awt.event.ActionEvent evt) {

272 // TODO add your handling code here:

273 }

274

275 private void **btnApagarActionPerformed**(java.awt.event.ActionEvent evt) {

276 // TODO add your handling code here:

277

278 ((DefaultTableModel) jTable1.getModel()).removeRow(jTable1.getSelectedRow());

279

280

281 }

282

283 /\*\*

284 \* **@param** args the command line arguments

285 \*/

286 public static void ***main***(String args[]) {

287 /\* Set the Nimbus look and feel \*/

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

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

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

291 \*/

292 try {

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

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

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

296 break;

297 }

298 }

299 } catch (ClassNotFoundException ex) {

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

301 } catch (InstantiationException ex) {

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

303 } catch (IllegalAccessException ex) {

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

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

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

307 }

308 //</editor-fold>

309

310 /\* Create and display the form \*/

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

312 public void **run**() {

313 new TelaProjetoIntegrador().setVisible(true);

314 }

315 });

316 }

317

318 // Variables declaration - do not modify

319 private javax.swing.JButton btnApagar;

320 private javax.swing.JButton btnInsert;

321 private javax.swing.JLabel jLabel1;

322 private javax.swing.JLabel jLabel2;

323 private javax.swing.JLabel jLabel3;

324 private javax.swing.JLabel jLabel4;

325 private javax.swing.JLabel jLabel5;

326 private javax.swing.JLabel jLabel6;

327 private javax.swing.JPanel jPanel1;

328 private javax.swing.JPanel jPanel2;

329 private javax.swing.JScrollPane jScrollPane1;

330 private javax.swing.JTable jTable1;

331 private javax.swing.JLabel lblQntdaluno;

332 private javax.swing.JTextField txtNome;

333 private javax.swing.JTextField txtNota1;

334 private javax.swing.JTextField txtNota2;

335 private javax.swing.JTextField txtNota3;

336 private javax.swing.JTextField txtQntd;

337 // End of variables declaration

338 }

339