**Tugas Pertama**Buatlah GUI menurut Study kasus yang anda buat !

**Jawaban**

AkunController

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| 1. **package** controller; 3. **import** entity.DaftarAkunEntity; 5. **public** **class** AkunController{ 6. **int** indexlogin = 0; 7. **public** AkunController(){ 9. } 10. **public** DaftarAkunEntity getData(){ 11. **return** AllObjectModel.daftarAkunModel.showDataAKun(indexlogin); 12. } 13. **public** **void** daftarKursus(String idakun, String nama, String alamat, String notlp, String pw, String kursus){ 14. AllObjectModel.daftarAkunModel.insertDataDaftarAkun(**new** DaftarAkunEntity(idakun,nama,alamat,notlp,pw,kursus)); 15. } 17. **public** **void** login(String idakun, String pw){ 18. indexlogin = AllObjectModel.daftarAkunModel.cekData(idakun,pw); 19. } 20. **public** **void** viewAkun(){ 21. AllObjectModel.daftarAkunModel.view(); 22. } 24. **public** **void** hapusbuku(**int** index){ 25. AllObjectModel.daftarAkunModel.delete(index-1); 26. } 27. **public** **void** editakun(**int** index, **int** pilih, String data){ 28. AllObjectModel.daftarAkunModel.update(index-1,pilih,data); 29. } 31. } |

AllObjectModel

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| 1. **package** controller; 3. **import** model.DaftarAkunModel; 5. **public** **class** AllObjectModel { 6. **public** **static** DaftarAkunModel daftarAkunModel = **new** DaftarAkunModel(); 7. } |

DaftarAkunEntity

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| 1. **package** entity; 3. **public** **class** DaftarAkunEntity { 4. **private** String idakun; 5. **private** String nama , alamat , notlp , pw , kursus; 7. **public** String getKursus() { 8. **return** kursus; 9. } 11. **public** **void** setKursus(String kursus) { 12. **this**.kursus = kursus; 13. } 15. **public** DaftarAkunEntity(String idakun, String nama, String alamat, String notlp, String pw, String kursus) { 16. **this**.idakun = idakun; 17. **this**.nama = nama; 18. **this**.alamat = alamat; 19. **this**.notlp = notlp; 20. **this**.pw = pw; 21. **this**.kursus = kursus; 22. } 24. **public** String getIdakun() { 25. **return** idakun; 26. } 28. **public** **void** setIdakun(String idakun) { 29. **this**.idakun = idakun; 30. } 32. **public** String getNama() { 33. **return** nama; 34. } 36. **public** **void** setNama(String nama) { 37. **this**.nama = nama; 38. } 40. **public** String getAlamat() { 41. **return** alamat; 42. } 44. **public** **void** setAlamat(String alamat) { 45. **this**.alamat = alamat; 46. } 48. **public** String getNotlp() { 49. **return** notlp; 50. } 52. **public** **void** setNotlp(String notlp) { 53. **this**.notlp = notlp; 54. } 56. **public** String getPw() { 57. **return** pw; 58. } 60. **public** **void** setPw(String pw) { 61. **this**.pw = pw; 63. } 64. } |

DaftarAkunModel

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| 1. **package** model; 3. **import** entity.DaftarAkunEntity; 5. **import** java.util.ArrayList; 7. **public** **class** DaftarAkunModel { 8. **private** ArrayList<DaftarAkunEntity> daftarAkunEntityArrayList; 9. **public** DaftarAkunModel(){ 10. daftarAkunEntityArrayList= **new** ArrayList<DaftarAkunEntity>(); 11. } 12. **public** **void** insertDataDaftarAkun(DaftarAkunEntity daftarakun){ 13. daftarAkunEntityArrayList.add(daftarakun); 14. } 15. **public** ArrayList<DaftarAkunEntity> getDaftarAkunEntityArrayList(){ 16. **return** daftarAkunEntityArrayList; 17. } 18. **public** ArrayList<DaftarAkunEntity> alldatakursus(){ 19. **return** daftarAkunEntityArrayList; 20. } 22. **public** **void** view(){ 23. **for**(DaftarAkunEntity daftarAkun : daftarAkunEntityArrayList){ 24. System.out.println("======================"); 25. System.out.println("ID Akun :"+daftarAkun.getIdakun()); 26. System.out.println("Nama depan : "+daftarAkun.getNama()); 27. System.out.println("Alamat : "+daftarAkun.getAlamat()); 28. System.out.println("Nomer Telephone : "+daftarAkun.getNotlp()); 29. System.out.println("Password: "+daftarAkun.getPw()); 30. System.out.println("Kursus: "+daftarAkun.getKursus()); 31. } 32. } 34. **public** **int** cekData(String idakun, String pw){ 35. **int** loop = 0; 36. **for**(DaftarAkunEntity daftarAkunEntity : daftarAkunEntityArrayList){ 37. **if** (daftarAkunEntity.getIdakun().equals(idakun) && daftarAkunEntity.getPw().equals(pw)){ 38. **break**; 39. } **else** { 40. loop++; 41. } 42. } 43. **return** loop; 44. } 46. **public** **int** search (**int** index) 47. { 48. **if** (index < **this**.daftarAkunEntityArrayList.size()) 49. **return** index; 50. **else** 51. **return** -1; 52. } 54. **public** **void** delete(**int** index) 55. { 56. **if** (search(index)==-1) 57. { 58. System.out.println("data tidak ditemukan"); 59. } 60. **if** (index == -1) 61. { 62. System.out.println("data tidak ditemukan"); 63. } 64. **else** 65. { 66. daftarAkunEntityArrayList.remove(index); 67. System.out.println("berhasil dihapus"); 68. } 69. } 71. **public** **void** update( **int** index, **int** pilih, String data){ 72. **if** (search(index)==-1){ 73. System.out.println("Data tidak ditemukan"); 74. }**else**{ 75. **switch** (pilih){ 76. **case** 1: 77. daftarAkunEntityArrayList.get(index).setIdakun(data); 78. **break**; 79. **case** 2: 80. daftarAkunEntityArrayList.get(index).setNama(data); 81. **break**; 82. **case** 3: 83. daftarAkunEntityArrayList.get(index).setAlamat(data); 84. **break**; 85. **case** 4: 86. daftarAkunEntityArrayList.get(index).setNotlp(data); 87. **break**; 88. **case** 5: 89. daftarAkunEntityArrayList.get(index).setPw(data); 90. **break**; 91. **case** 6: 92. daftarAkunEntityArrayList.get(index).setKursus(data); 93. **break**; 94. **default**: 95. } 96. } 97. } 98. **public** DaftarAkunEntity showDataAKun (**int** index){ 99. **return** daftarAkunEntityArrayList.get(index); 100. } 101. } |

Akun

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| 1. **package** view; 3. **import** controller.AllObjectModel; 4. **import** model.DaftarAkunModel; 6. **import** java.util.Scanner; 8. **public** **class** Akun { 10. **private** **static** Scanner input = **new** Scanner(System.in); 12. **public** **static** **void** Daftar(){ 13. String idakun; 14. String nama , alamat , notlp , pw; 15. **int** indexkursus = 0; 16. System.out.print("ID : "); 17. idakun = input.nextLine(); 18. System.out.print("Nama : "); 19. nama = input.nextLine(); 20. System.out.print("Alamat : "); 21. alamat = input.nextLine(); 22. System.out.print("Nomer telephone : "); 23. notlp = input.nextLine(); 24. System.out.print("password : "); 25. pw = input.nextLine(); 26. System.out.println("Menu Kursus : "); 27. System.out.println("- Matematika "); 28. System.out.println("- Biologi "); 29. System.out.println("- Fisika "); 30. System.out.print("Pilih Kursus : "); 31. String kursus = input.next(); 32. AllObjectController.akunController.daftarKursus(idakun,nama,alamat,notlp,pw,kursus); 33. *// AllObjectController.kursusController.dataKursus(kursus);* 35. } 37. **public** **static** **void** login(){ 38. System.out.print("id : "); 39. String idakun = input.next(); 40. System.out.print("Passowrd : "); 41. String pw = input.next(); 42. **try**{ 43. AllObjectController.akunController.login(idakun, pw); 44. menudalam(); 45. } **catch** (Exception e){ 46. System.out.println("Daftar Kursus tidak ada"); 47. } 49. } 50. **public** **static** **void** menu(){ 51. **int** pilih; 52. **do** { 53. System.out.println("Menu Pilihan"); 54. System.out.println("1. Daftar Akun"); 55. System.out.println("2. Login "); 56. System.out.println("3. Exit"); 57. System.out.print("pilih : "); 58. pilih = input.nextInt(); 59. input.nextLine(); 60. **switch** (pilih){ 61. **case** 1: 62. Daftar(); 63. **break**; 64. **case** 2: 65. login(); 66. **break**; 67. } 68. } **while** (pilih != 3); 69. } 71. **public** **static** **void** menudalam(){ 72. **int** pilih; 73. **do** { 74. System.out.println("Menu Pilihan"); 75. System.out.println("1. Edit "); 76. System.out.println("2. Hapus"); 77. System.out.println("3. lihat "); 78. System.out.println("4. Exit"); 79. System.out.print("pilih : "); 80. pilih = input.nextInt(); 81. input.nextLine(); 82. **switch** (pilih){ 83. **case** 1: 84. editbuku(); 85. **break**; 86. **case** 2: 87. deletebuku(); 88. **break**; 89. **case** 3: 90. AllObjectController.akunController.viewAkun(); 91. **break**; 92. } 93. } **while** (pilih != 4); 94. } 96. **public** **static** **void** deletebuku(){ 97. AllObjectController.akunController.viewAkun(); 98. System.out.println("Masukkan nomor akun yang ingin di hapus : "); 99. **int** nomor = input.nextInt(); 100. input.nextLine(); 101. AllObjectController.akunController.hapusbuku(nomor); 102. } 103. **public** **static** **void** editbuku(){ 104. **int** pilih; 106. System.out.print("nomor : "); 107. **int** nomor = input.nextInt(); 108. input.nextLine(); 109. System.out.println("Menu Pilihan"); 110. System.out.println("1. ID Akun "); 111. System.out.println("2. Nama"); 112. System.out.println("3. alamat"); 113. System.out.println("4. nomer telephone "); 114. System.out.println("5. password"); 115. System.out.println("6. Kursus"); 116. System.out.print("pilih : "); 117. pilih = input.nextInt(); 118. input.nextLine(); 119. System.out.println("Masukan Data Baru"); 120. String data = input.nextLine(); 121. **switch** (pilih){ 122. **case** 1: 123. AllObjectController.akunController.editakun(nomor,1,data); 124. **break**; 125. **case** 2: 126. AllObjectController.akunController.editakun(nomor,2,data); 127. **break**; 128. **case** 3: 129. AllObjectController.akunController.editakun(nomor,3,data); 130. **break**; 131. **case** 4: 132. AllObjectController.akunController.editakun(nomor,4,data); 133. **break**; 134. **case** 5: 135. AllObjectController.akunController.editakun(nomor,5,data); 136. **break**; 137. **case** 6: 138. AllObjectController.akunController.editakun(nomor,6,data); 139. **default**:  142. }  145. } 146. } |

AllObjectController

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| 1. **package** view; 3. **import** controller.AkunController;  6. **public** **class** AllObjectController { 7. **public** **static** AkunController akunController = **new** AkunController(); 8. } |

GUI

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| 1. **package** view; 3. **import** java.awt.Color; 4. **import** java.awt.Font; 5. **import** java.awt.event.ActionEvent; 6. **import** java.awt.event.ActionListener; 7. **import** java.util.Date; 8. **import** javax.swing.\*; 10. **public** **class** GUI { 12. JFrame LogReg = **new** JFrame(); 13. JLabel login, daftar, top; 14. JRadioButton radioaslab, radiopraktikan; 15. JTextField textidkursus, textnama, textnotelp, textnpmdaftar, textkelas, textalamat; 16. JLabel labelidkursus, labelnama, labelpasswordlogin, labelnotelp, labelnpmdaftar, labelpassworddaftar, kelaslabel, labelalamat; 17. JButton check, reg; 18. JPasswordField passwordlogin, passworddaftar; 19. **private** **boolean** ceklogin = **false**; 21. **public** GUI() { 22. LogReg.setSize(900, 900); 23. LogReg.setLayout(**null**); 24. LogReg.getContentPane().setBackground(Color.RED); 25. top = **new** JLabel("KURSUS INTENSI"); 26. top.setBounds(280, 10, 600, 50); 27. top.setFont(**new** Font("Times New Roman", Font.BOLD, 40)); 28. LogReg.add(top); 30. login = **new** JLabel("login"); 31. login.setBounds(100, 100, 100, 100); 32. login.setFont(**new** Font("Times New Roman", Font.BOLD, 30)); 33. LogReg.add(login); 35. labelidkursus = **new** JLabel("ID"); 36. labelidkursus.setBounds(39, 188, 30, 30); 37. LogReg.add(labelidkursus); 38. textidkursus = **new** JTextField(); 39. textidkursus.setBounds(30, 210, 200, 30); 40. LogReg.add(textidkursus); 42. labelpasswordlogin = **new** JLabel("Password"); 43. labelpasswordlogin.setBounds(39, 255, 100, 30); 44. LogReg.add(labelpasswordlogin); 45. passwordlogin = **new** JPasswordField(); 46. passwordlogin.setBounds(30, 280, 200, 30); 47. LogReg.add(passwordlogin); 49. check = **new** JButton("LOGIN"); 50. check.setBounds(50, 320, 150, 40); 51. check.setBackground(Color.GREEN); 52. LogReg.add(check); 54. daftar = **new** JLabel("Buat Akun"); 55. daftar.setFont(**new** Font("Times New Roman", Font.BOLD, 30)); 56. daftar.setBounds(600, 100, 150, 100); 57. LogReg.add(daftar); 59. labelnpmdaftar = **new** JLabel("ID Akun"); 60. labelnpmdaftar.setBounds(600, 150, 100, 50); 61. LogReg.add(labelnpmdaftar); 62. textnpmdaftar = **new** JTextField(); 63. textnpmdaftar.setBounds(600, 180, 200, 30); 64. LogReg.add(textnpmdaftar); 66. labelnama = **new** JLabel("Nama"); 67. labelnama.setBounds(600, 210, 100, 30); 68. LogReg.add(labelnama); 69. textnama = **new** JTextField(); 70. textnama.setBounds(600, 240, 200, 30); 71. LogReg.add(textnama); 73. labelalamat = **new** JLabel("Alamat"); 74. labelalamat.setBounds(600,270,100,50); 75. LogReg.add(labelalamat); 76. textalamat = **new** JTextField(); 77. textalamat.setBounds(600,300,200,30); 78. LogReg.add(textalamat); 80. labelpassworddaftar = **new** JLabel("Password"); 81. labelpassworddaftar.setBounds(600, 330, 100, 30); 82. LogReg.add(labelpassworddaftar); 83. passworddaftar = **new** JPasswordField(); 84. passworddaftar.setBounds(600, 360, 200, 30); 85. LogReg.add(passworddaftar); 87. labelnotelp = **new** JLabel("No Telepon"); 88. labelnotelp.setBounds(600, 390, 100, 30); 89. LogReg.add(labelnotelp); 90. textnotelp = **new** JTextField(); 91. textnotelp.setBounds(600, 420, 200, 30); 92. LogReg.add(textnotelp); 94. kelaslabel = **new** JLabel("Kelas"); 95. kelaslabel.setBounds(600, 450, 200, 30); 96. LogReg.add(kelaslabel); 97. textkelas = **new** JTextField(); 98. textkelas.setBounds(600, 480, 200, 30); 99. LogReg.add(textkelas); 101. reg = **new** JButton("Daftar"); 102. reg.setBounds(650, 510, 100, 40); 103. reg.setBackground(Color.GREEN); 104. LogReg.add(reg); 105. LogReg.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE); 106. LogReg.setVisible(**true**); 107. LogReg.setLocationRelativeTo(**null**); 108. *// radioaslab.addActionListener(new ActionListener() {* 109. *// @Override* 110. *// public void actionPerformed(ActionEvent ae) {* 111. *// if (radioaslab.isSelected()) {* 112. *// radiopraktikan.setSelected(false);* 113. *// ceklogin = true;* 114. *// }* 115. *// }* 116. *// });* 117. *// radiopraktikan.addActionListener(new ActionListener() {* 118. *// @Override* 119. *// public void actionPerformed(ActionEvent ae) {* 120. *// if (radiopraktikan.isSelected()) {* 121. *// radioaslab.setSelected(false);* 122. *// ceklogin = false;* 123. *// }* 124. *// }* 125. *// });* 126. check.addActionListener(**new** ActionListener() { 127. @Override 128. **public** **void** actionPerformed(ActionEvent ae) { 129. **try** { 130. AllObjectController.akunController.login(textidkursus.getText(), passwordlogin.getText()); 131. String nama = AllObjectController.akunController.getData().getNama(); 132. JOptionPane.showMessageDialog(**null**, "Selamat Datang " + nama, "information", JOptionPane.INFORMATION\_MESSAGE); 133. *// PraktikanGUI07220 prak = new PraktikanGUI07220();* 134. LogReg.dispose(); 135. } **catch** (Exception exception) { 136. JOptionPane.showMessageDialog(**null**, "ID atau password salah", " information", JOptionPane.INFORMATION\_MESSAGE); 137. kosong(); 138. } 139. } 140. }); 141. reg.addActionListener(**new** ActionListener() { 142. @Override 143. **public** **void** actionPerformed(ActionEvent ae) { 144. **try** { 145. String idakun = textnpmdaftar.getText(); 146. String nama = textnama.getText(); 147. String alamat = textalamat.getText(); 148. String notelp = textnotelp.getText(); 149. String pw = passworddaftar.getText(); 150. String kursus = textkelas.getText(); 151. AllObjectController.akunController.daftarKursus(idakun,nama,alamat,notelp,pw,kursus); 152. JOptionPane.showMessageDialog(**null**, "Registrasi Sukses", "information", JOptionPane.INFORMATION\_MESSAGE); 153. kosong(); 154. } **catch** (Exception exception) { 155. JOptionPane.showMessageDialog(**null**, "Format Penulisan Salah", "Registrasi Gagal", JOptionPane.INFORMATION\_MESSAGE); 156. } 157. } 158. }); 159. } 161. **void** kosong() { 162. textidkursus.setText(**null**); 163. passworddaftar.setText(**null**); 164. textnama.setText(**null**); 165. textnotelp.setText(**null**); 166. textalamat.setText(**null**); 167. textidkursus.setText(**null**); 168. passwordlogin.setText(**null**); 169. textkelas.setText(**null**); 171. } 172. } |

**Output**

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