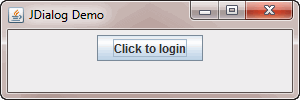
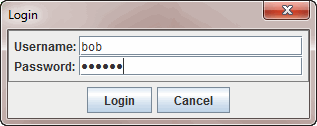
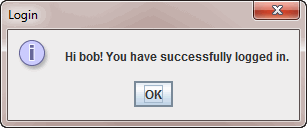
3 Steps to Create Login Dialog in Java Swing

In this tutorial, you will learn how to create a simple login dialog by extending JDialog class.

[](http://www.zentut.com/wp-content/uploads/2012/10/jdialog.gif)

[](http://www.zentut.com/wp-content/uploads/2012/10/logindialog.gif)

[](http://www.zentut.com/wp-content/uploads/2012/10/logindialog2.gif)

[](http://www.zentut.com/wp-content/uploads/2012/10/jdialog2.gif)

First, we develop a login module that authenticate user based on username and password. To make it simple, we hard-code the *username* and *password* in this module. You can use different methods such as reading user’s information from database or file.

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| 1  2  3  4  5  6  7  8  9  10  11  12 | package jdialogdemo;    public class Login {        public static boolean authenticate(String username, String password) {          // hardcoded username and password          if (username.equals("bob") && password.equals("secret")) {              return true;          }          return false;      }  } |

Second, we create login dialog that extends JDialog class and provides users with layout including:

* The *username* and *password* [text fields](http://www.zentut.com/java-swing/creating-text-fields-by-using-jtextfield-class/).
* The  *login* and *cancel* [buttons](http://www.zentut.com/java-swing/jbutton/).

Whenever user enters the *username* and *password* and clicks the *login* button, we call *Login*module above to authenticate the user. In the login dialog, we also have a property called *succeeded*to indicate that the user has provided correct username and password.

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| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40  41  42  43  44  45  46  47  48  49  50  51  52  53  54  55  56  57  58  59  60  61  62  63  64  65  66  67  68  69  70  71  72  73  74  75  76  77  78  79  80  81  82  83  84  85  86  87  88  89  90  91  92  93  94  95  96  97  98  99  100  101  102  103  104  105  106 | package jdialogdemo;    import java.awt.\*;  import java.awt.event.\*;  import javax.swing.\*;  import javax.swing.border.\*;    public class LoginDialog extends JDialog {        private JTextField tfUsername;      private JPasswordField pfPassword;      private JLabel lbUsername;      private JLabel lbPassword;      private JButton btnLogin;      private JButton btnCancel;      private boolean succeeded;        public LoginDialog(Frame parent) {          super(parent, "Login", true);          //          JPanel panel = new JPanel(new GridBagLayout());          GridBagConstraints cs = new GridBagConstraints();            cs.fill = GridBagConstraints.HORIZONTAL;            lbUsername = new JLabel("Username: ");          cs.gridx = 0;          cs.gridy = 0;          cs.gridwidth = 1;          panel.add(lbUsername, cs);            tfUsername = new JTextField(20);          cs.gridx = 1;          cs.gridy = 0;          cs.gridwidth = 2;          panel.add(tfUsername, cs);            lbPassword = new JLabel("Password: ");          cs.gridx = 0;          cs.gridy = 1;          cs.gridwidth = 1;          panel.add(lbPassword, cs);            pfPassword = new JPasswordField(20);          cs.gridx = 1;          cs.gridy = 1;          cs.gridwidth = 2;          panel.add(pfPassword, cs);          panel.setBorder(new LineBorder(Color.GRAY));            btnLogin = new JButton("Login");            btnLogin.addActionListener(new ActionListener() {                public void actionPerformed(ActionEvent e) {                  if (Login.authenticate(getUsername(), getPassword())) {                      JOptionPane.showMessageDialog(LoginDialog.this,                              "Hi " + getUsername() + "! You have successfully logged in.",                              "Login",                              JOptionPane.INFORMATION\_MESSAGE);                      succeeded = true;                      dispose();                  } else {                      JOptionPane.showMessageDialog(LoginDialog.this,                              "Invalid username or password",                              "Login",                              JOptionPane.ERROR\_MESSAGE);                      // reset username and password                      tfUsername.setText("");                      pfPassword.setText("");                      succeeded = false;                    }              }          });          btnCancel = new JButton("Cancel");          btnCancel.addActionListener(new ActionListener() {                public void actionPerformed(ActionEvent e) {                  dispose();              }          });          JPanel bp = new JPanel();          bp.add(btnLogin);          bp.add(btnCancel);            getContentPane().add(panel, BorderLayout.CENTER);          getContentPane().add(bp, BorderLayout.PAGE\_END);            pack();          setResizable(false);          setLocationRelativeTo(parent);      }        public String getUsername() {          return tfUsername.getText().trim();      }        public String getPassword() {          return new String(pfPassword.getPassword());      }        public boolean isSucceeded() {          return succeeded;      }  } |

Third, in the main program, we create a new instance of login [dialog](http://www.zentut.com/java-swing/dialog/)*LoginDialog.*To show login dialog, we use method *setVisible(true).*

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| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30 | package jdialogdemo;    import java.awt.\*;  import java.awt.event.\*;  import javax.swing.\*;    public class Main {      public static void main(String[] args) {          final JFrame frame = new JFrame("JDialog Demo");          final JButton btnLogin = new JButton("Click to login");            btnLogin.addActionListener(                  new ActionListener(){                      public void actionPerformed(ActionEvent e) {                          LoginDialog loginDlg = new LoginDialog(frame);                          loginDlg.setVisible(true);                          // if logon successfully                          if(loginDlg.isSucceeded()){                              btnLogin.setText("Hi " + loginDlg.getUsername() + "!");                          }                      }                  });            frame.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);          frame.setSize(300, 100);          frame.setLayout(new FlowLayout());          frame.getContentPane().add(btnLogin);          frame.setVisible(true);      }  } |