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SWT InputBox [message #466221]   Thu, 05 January 2006 02:10
Daniel Spiewak
Messages: 263   Senior Member
Registered: July 2009
I'm posting this here for central access to the SWT community. I didn't think it meritted a full SF.net project or anything like that but I wanted to disseminate it. Hope you find it useful. It's basically a simple dialog with the appropriate platform images (SWT.IMAGE_ERROR, etc) that allows string input (think JavaScript alert() or VB InputBox)

Code: [Select all] [Show/ hide]

```
import org.eclipse.swt.SWT;
import org.eclipse.swt.events.SelectionAdapter;
import org.eclipse.swt.events.SelectionEvent;
import org.eclipse.swt.layout.GridData;
import org.eclipse.swt.layout.GridLayout;
import org.eclipse.swt.layout.RowLayout;
import org.eclipse.swt.widgets.Button;
import org.eclipse.swt.widgets.Composite;
import org.eclipse.swt.widgets.Dialog;
import org.eclipse.swt.widgets.Label;
import org.eclipse.swt.widgets.Shell;
import org.eclipse.swt.widgets.Text;

public class InputBox extends Dialog {
private Shell shell;
private Label label;

private String message;
private String result;

public InputBox(Shell parent, int style) {
super(parent, checkStyle(style));

shell = new Shell(parent, SWT.DIALOG_TRIM | checkStyle(style));
shell.setText(getText());
shell.setLayout(new GridLayout(2, false));

new Label(shell, SWT.CENTER).setImage(shell.getDisplay().getSystemImage(checkImageStyle(style)));

Composite body = new Composite(shell, SWT.NONE);

GridData data0 = new GridData();
```

```
    data0.grabExcessHorizontalSpace = true;
    data0.grabExcessVerticalSpace = true;
    data0.horizontalAlignment = SWT.FILL;
    data0.verticalAlignment = SWT.FILL;
    body.setLayoutData(data0);

    body.setLayout(new GridLayout());

    label = new Label(body, SWT.LEFT);

    GridData data1 = new GridData();
    data1.grabExcessHorizontalSpace = true;
    data1.grabExcessVerticalSpace = true;
    data1.horizontalAlignment = SWT.FILL;
    data1.verticalAlignment = SWT.FILL;
    label.setLayoutData(data1);

    final Text text = new Text(body, SWT.SINGLE | SWT.BORDER);

    GridData data2 = new GridData();
    data2.grabExcessHorizontalSpace = true;
    data2.horizontalAlignment = SWT.FILL;
    text.setLayoutData(data2);

    Composite footer = new Composite(shell, SWT.NONE);

    GridData data3 = new GridData();
    data3.grabExcessHorizontalSpace = true;
    data3.horizontalAlignment = SWT.FILL;
    data3.horizontalSpan = 2;
    footer.setLayoutData(data3);

    RowLayout layout = new RowLayout();
    layout.justify = true;
    layout.fill = true;
    footer.setLayout(layout);

    Button cancel = new Button(footer, SWT.PUSH);
    cancel.setText("  Cancel  ");
    cancel.addSelectionListener(new SelectionAdapter() {
    public void widgetSelected(SelectionEvent e) {
    shell.dispose();
    }
    });

    Button ok = new Button(footer, SWT.PUSH);
    ok.setText("    OK     ");
    ok.addSelectionListener(new SelectionAdapter() {
    public void widgetSelected(SelectionEvent e) {
    result = text.getText();

    shell.dispose();
    }
    });
    shell.setDefaultButton(ok);
    }

    protected static int checkStyle(int style) {
    if ((style & SWT.SYSTEM_MODAL) == SWT.SYSTEM_MODAL) {
    return SWT.SYSTEM_MODAL;
    } else if ((style & SWT.PRIMARY_MODAL) == SWT.PRIMARY_MODAL) {
    return SWT.PRIMARY_MODAL;
    } else if ((style & SWT.APPLICATION_MODAL) == SWT.APPLICATION_MODAL) {
    return SWT.APPLICATION_MODAL;
    }

    return SWT.APPLICATION_MODAL;
    }

    protected static int checkImageStyle(int style) {
    if ((style & SWT.ICON_ERROR) == SWT.ICON_ERROR) {
```

```
return SWT.ICON_ERROR;
} else if ((style & SWT.ICON_INFORMATION) == SWT.ICON_INFORMATION) {
return SWT.ICON_INFORMATION;
} else if ((style & SWT.ICON_QUESTION) == SWT.ICON_QUESTION) {
return SWT.ICON_QUESTION;
} else if ((style & SWT.ICON_WARNING) == SWT.ICON_WARNING) {
return SWT.ICON_WARNING;
} else if ((style & SWT.ICON_WORKING) == SWT.ICON_WORKING) {
return SWT.ICON_WORKING;
}

return SWT.NONE;
}

@Override
public void setText(String string) {
super.setText(string);

shell.setText(string);
}

public String getMessage() {
return message;
}

public void setMessage(String message) {
if (message == null) SWT.error(SWT.ERROR_NULL_ARGUMENT);

this.message = message;
label.setText(message);
}

public String open() {
shell.pack();
shell.open();
shell.layout();

while (!shell.isDisposed())
if (!shell.getDisplay().readAndDispatch()) shell.getDisplay().sleep();

return result;
}
}

/*
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*/
```

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