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function validateField(name, val, fldlength, pattern, required){
    var errMsg = "";

    if(required && (val == null || val == "")){
        errMsg = name + " " + isrequired.value + "\n";
    }

    return errMsg;
}

function validateStaticAndHighlight(name, formElem, length, pattern, required, showAlert){
    try{
        val = xfa.resolveNode(formElem).rawValue;
        nonHighlight(formElem);
        var errMsg = validateField(name, val, length, pattern, required);

        if(errMsg.length > 0 && showAlert){
            app.alert(errMsg);
        }
        if (errMsg.length > 0)
            highlight(formElem);

        return errMsg;
    }catch (oErr){
        app.alert("Exception in Controller:validateStaticAndHighlight and Hightlight: " + "Name: " +
name + oErr.name + " - " + oErr.message);
    }
}

function validateForm(showMsg){
    vMsg = "";

    //validate all required text fields and dropdown lists
    for (var nPageCount=0; nPageCount<xfa.host.numPages; nPageCount++) {
        var oFields = xfa.layout.pageContent(nPageCount,"field");
        var nNodesLength = oFields.length;

        for (var nNodeCount=0; nNodeCount<nNodesLength; nNodeCount++) {
            if (oFields.item(nNodeCount).validate.nullTest == "error"){
                nonhighlightTest(oFields.item(nNodeCount));
                if (oFields.item(nNodeCount).rawValue==" " || oFields.item(nNodeCount).rawValue==null){
                    highlightTest(oFields.item(nNodeCount));
                    vMsg += oFields.item(nNodeCount).name + " ";
                }
            }
        }
    }
}

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}

if (showMsg && vMsg.length>0) {
    vMsg += "are required";
    vMsg = "Please fill in the required fields that are highlighted in yellow."
    xfa.host.messageBox(vMsg);
    return false
}
return true;
}

function highlight(formElem){
    try {
        var fieldObj = xfa.resolveNode(formElem);
        var fld = null;
        var noBorder = false;
        fld = fieldObj.ui.resolveNode("#textEdit");
        if (fld != null){
            noBorder = true;
        }else
            fld = fieldObj.ui.resolveNode("#checkButton");

        if (fld == null)
            fld = fieldObj.ui.resolveNode("#choiceList");

        if (fld != null){
            fld.border.presence = "visible";

            if (noBorder)
                fld.border.edge.presence = "visible";

            fld.border.fill.color.value = "255,255,128";
        }

        if (fld == null)
            fld = fieldObj.ui.resolveNode("#dateTimeEdit");

        if (fld != null){
            fld.border.presence = "visible";

            if (noBorder)
                fld.border.edge.presence = "visible";

            fld.border.fill.color.value = "255,255,128";
        }
    }
}catch (oErr){

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        app.alert("Exception in Highlight: " + "FormElem: " + formElem + " : " + oErr.name + " - " +
oErr.message);
    }
}
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function nonHighlight(formElem){
    try {
        var fieldObj = xfa.resolveNode(formElem);
        var fld = null;
        var noBorder = false;

        fld = fieldObj.ui.resolveNode("#textEdit");
        if (fld != null)
            noBorder = true;
        else
            fld = fieldObj.ui.resolveNode("#checkButton");

        if (fld == null)
            fld = fieldObj.ui.resolveNode("#choiceList");

        if (fld != null){
            fld.border.presence = "visible";

            if (noBorder)
                fld.border.edge.presence = "visible";

            fld.border.fill.color.value = "255,255,255";
        }

        if (fld == null)
            fld = fieldObj.ui.resolveNode("#dateTimeEdit");

        if (fld != null){
            fld.border.presence = "visible";

            if (noBorder)
                fld.border.edge.presence = "visible";
            fld.border.fill.color.value = "255,255,255";
        }
    }
} catch (oErr){
    app.alert("Exception in Highlight: " + "FormElem: " + formElem + " : " + oErr.name + " - " +
oErr.message);
}
}
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function highlightTest(fieldObj){
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try {
    var fld = null;
    var noBorder = false;

    fld = fieldObj.ui.resolveNode("#textEdit");
    if (fld != null){
        noBorder = true;
    }else
        fld = fieldObj.ui.resolveNode("#checkButton");

    if (fld == null)
        fld = fieldObj.ui.resolveNode("#choiceList");

    if (fld == null)
        fld = fieldObj.ui.resolveNode("#numericEdit");

    if (fld == null)
        fld = fieldObj.ui.resolveNode("#dateTimeEdit");

    if (fld != null){
        fld.border.presence = "visible";

        if (noBorder)
            fld.border.edge.presence = "visible";

        fld.border.fill.color.value = "255,255,128";
    }
} catch (oErr){
    app.alert("Exception in Highlight: " + "FormElem: " + formElem + " : " + oErr.name + " - " +
oErr.message);
}
}

function nonhighlightTest(fieldObj){
    try {
        var fld = null;
        var noBorder = false;

        fld = fieldObj.ui.resolveNode("#textEdit");

        if (fld != null){
            noBorder = true;
        }else
            fld = fieldObj.ui.resolveNode("#checkButton");

        if (fld == null)

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        fld = fieldObj.ui.resolveNode("#choiceList");

    if (fld == null)
        fld = fieldObj.ui.resolveNode("#numericEdit");

    if (fld == null)
        fld = fieldObj.ui.resolveNode("#dateTimeEdit");

    if (fld != null){
        fld.border.presence = "visible";

        if (noBorder)
            fld.border.edge.presence = "visible";

        fld.border.fill.color.value = "255,255,255";
    }
} catch (oErr){
    app.alert("Exception in Highlight: " + "FormElem: " + formElem + " : " + oErr.name + " - " +
oErr.message);
}
}
```