

Adventures in Groovy – Part 17: Force Cell Comments

Challenge Accepted

When I asked visitors to try to come up with a situation that Groovy Calculation might be able to solve, this was a good one. One visitor asked if they could require a cell comment if certain parameters were not met. It is actually relatively easy.

The following requirement exist in this example. If any month holds more than 30% of the full year, that cell requires the user to enter a cell comment. If no comment exists, the user won't be able to save the form.

The User Experience

If any month is more than 30% of the full year, and the user doesn't add a comment to a cell, the form will not save. The following shows what happens when the above fails, and what happens after the user enters a comment into the cell.

The Code

```
def backErrColor = 16755370 //Red
def caseTotal = 0
def accountName = ""

// Loop through the months
operation.grid.dataCellIterator('Jan','Feb','Mar','Apr','May',
'Jun','Jul','Aug','Sep','Oct','Nov','Dec').each {
    // Get a total for all 12 months every time the row changes
    if(it.getAccountName() != accountName) {
        accountName = it.getAccountName();
        caseTotal = it.data + it.crossDimCell('Feb').data +
it.crossDimCell('Mar').data + it.crossDimCell('Apr').data +
```

```
it.crossDimCell('May').data + it.crossDimCell('Jun').data +
it.crossDimCell('Jul').data + it.crossDimCell('Aug').data +
it.crossDimCell('Sep').data + it.crossDimCell('Oct').data +
it.crossDimCell('Nov').data + it.crossDimCell('Dec').data
}
// If the value is greater than 30% of the total and the
cell does NOT have a cell comment, interrupt the form save
if(it.data > 0 && it.data / caseTotal > 0.3 &&
!it.hasCellNote() ) {
    it.addValidationError(backErrColor, "Cases for a single
month can't be more than 30% of the total year without an
assumption.", false)
}
}
```

Conclusion

Challenge accepted. This one goes in the win column for Groovy Calculations!