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SYNERGY 2017

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SYNERGY 2017

Drag & Drop in WebApp

Torben Lund, DataPower

Drag & Drop in cWebList

Personer på turen

05,33-05,35 Nicholas Faurskov Kjær, Møllebjergvej 15, 5471 Søndersø

05,35-05,37 Nicklas Kold Andreasen, Viernevej 19, 5471 Søndersø

06,11-06,13 Mathias Soelberg Johansen, Lille Jullerupvej 80, 5471 Søndersø

06,11-06,13 Mathias Soelberg Johansen, Lille Jullerupvej 80, 5471 Søndersø

05,49-05,51 Casper Stig Henningsen, Skåstrupvej 41, 5400 Bogense

05,59-06,01 Jan Munch Pedersen, Harritslevej 19 C, 5400 Bogense

06,47-06,50 NF Spec.kørsel Skrillingskolen - Øresun, Øresundsvænget 1, 5500 Middelfart

cWebList, manually loaded

- Not DataAware
- Must be manually filled with data
- Event OnManualLoadData
- tWebRow struct
- Event OnProcessDataSet

tWebRow and tWebCell

```
Struct tWebCell
    String sValue
    String sTooltip
    String sCssClassName
    String[] aOptions
End_Struct
```

```
Struct tWebRow
    String sRowID
    String sCssClassName
    tWebCell[] aCells
End_Struct
```

tWebCell aOptions array

```
//tRow.aCells[0].aOptions[0] : Lat/Long geokoordinater for  
                             adressen i formatet  
                             "55.523929,10.276323"  
//tRow.aCells[0].aOptions[1] : Servicetid i minutter ved bopæl  
//tRow.aCells[0].aOptions[2] : Servicetid i minutter ved center  
//tRow.aCells[0].aOptions[3] : Kørestol  
//tRow.aCells[0].aOptions[4] : Gangstat  
//tRow.aCells[0].aOptions[5] : Forsæde  
//tRow.aCells[0].aOptions[6] : Trappemaskine  
//tRow.aCells[0].aOptions[7] : Høj/Lav Vogn  
//tRow.aCells[0].aOptions[8] : Solotur  
//tRow.aCells[0].aOptions[9] : Egenbetaling
```

cWebList DataSet methods

- DataSetAppendRow RowData
- DataSetInsertRowBefore RowID RowData
- DataSetRemoveRow RowID
- DataSetUpdateRow RowID RowData

- ProcessDataSet eOperation

OnProcessDataSet event

```
OnProcessDataSet tWebRow[] aData ;  
    Integer eOperation ;  
    Integer iSelectedRowIndex
```

```
Procedure OnClick  
    Send ProcessDataSet 1  
end_procedure
```


Removing an item from the List

```
Procedure OnProcessDataSet ;  
    tWebRow[] aData ;  
    Integer eOperation ;  
    Integer iSelectedRowIndex  
  
    If (eOperation = 1) Begin  
        Send DataSetRemoveRow ;  
            aData[iSelectedRowIndex].sRowID  
    End  
End_Procedure
```

Moving an item in the List

```
cWebRow Row1 Row2
```

```
If (eOperation = 2) Begin
```

```
    Move aData[iSelectedRowIndex]    to Row1
```

```
    Move aData[iSelectedRowIndex+1] to Row2
```

```
    Move Row2 to aData[iSelectedRowIndex]
```

```
    Move Row1 to aData[iSelectedRowIndex+1]
```

```
    Send ClearGrid
```

```
    For iRow from 0 to iMax
```

```
        Send DataSetAppendRow aData[iRow]
```

```
    Loop
```

```
End
```

Making this Drag & Drop

- Add a JavaScript library
- Dragula
- Subclass the cWebList class to include methods from the JavaScript library
- JavaScript class only changes the client UI
- Implement the DataSet manipulation in the new events

cDraggableWebList events

```
Procedure OnDrop ;  
    String sRowID ;  
    String sSource ;  
    String sDroppedBeforeRowID
```

```
Procedure OnRemove ;  
    String sRowID ;  
    String sLastParent
```

cDraggableWebList Properties

Property Boolean pbUseDragHandle True

Property Boolean pbRevertOnSpill False

Property Boolean pbRemoveOnSpill False

Implementing OnRemove

```
Procedure OnRemove String sRowID ;  
           String sLastParent  
  
           Send DataSetRemoveRow sRowId  
End_Procedure
```

Implementing OnDrop

```
Property String psMoveRowID
```

```
Property String psInsertBeforeRowID
```

```
Procedure OnDrop String sRowID ;
```

```
    String sSource ;
```

```
    String sDroppedBeforeRowID
```

```
    WebSet psMoveRowID to sRowID
```

```
    WebSet psInsertBeforeRowID to sDroppedBeforeRowID
```

```
    Send ProcessDataSet 9
```

```
End_Procedure
```

Implementing OnDrop

```
tWebRow Row1
If (eOperation=9) Begin // drag/drop
    WebGet psMoveRowID to sRowID
    WebGet psInsertBeforeRowID to sInsertBefore

// First get the rowdata for the row being moved
    For iRow from 0 to iMax
        If (aData[iRow].sRowID=sRowID) Begin
            Move aData[iRow] to Row1
        End
    End

Loop
```


Implementing OnDrop

```
tWebRow[] aNewData
```

```
// Copy all rows to a new array
```

```
For iRow from 0 to iMax
```

```
    If (aData[iRow].sRowID<>sRowID) Begin
```

```
        Move aData[iRow] to aNewData[SizeOfArray(aNewData)]
```

```
    End
```

```
Loop
```

Implementing OnDrop

```
tWebRow[] aNewData
```

```
// Copy all rows to a new array
```

```
For iRow from 0 to iMax
```

```
  If (aData[iRow].sRowID<>sRowID) Begin
```

```
    If (aData[iRow].sRowID=sInsertBefore) Begin
```

```
      Move Row1 to aNewData[SizeOfArray(aNewData)]
```

```
    End
```

```
    Move aData[iRow] to aNewData[SizeOfArray(aNewData)]
```

```
  End
```

```
Loop
```

Implementing OnDrop

```
// Now just populate the new array data to the list
```

```
Send ClearGrid
```

```
For iRow from 0 to iMax
```

```
    Send DataSetAppendRow aNewData[iRow]
```

```
Loop
```

Drag & Drop in cWebList

The screenshot displays the cWebList interface with two dropdown menus at the top. The left dropdown is labeled 'Bil:' and contains the text '408: Munkebo vl. 2718 (5 pers.)'. The right dropdown is labeled 'Center:' and contains the text '172 Bogense Skole'. Below these are two panels, each with a title and a list of items. The left panel, titled 'Personer på turen', contains a list of six items, each with a time range and a person's name and address. The right panel, titled 'Personer på centeret', contains a list of ten items, each with a time range and a person's name and address. The first five items in the right panel are highlighted in green, indicating they have been moved from the left panel. The interface includes scrollbars for both lists and a jagged black border around the entire content area.

Bil: 408: Munkebo vl. 2718 (5 pers.)

Center: 172 Bogense Skole

Personer på turen

- 00,00-00,00 Dennis Kirkeby, Højagervej 42, 5471 Sønderød
- 00,00-00,00 Harm Wibier, Odensevej 61, 5471 Sønderød
- 00,00-00,00 John Tuohy, Veflinge Skowej 76, 5471 Sønderød
- 00,00-00,00 Jonas Pålsson, Bogensevej 108, 5471 Sønderød
- 00,00-00,00 Nils Svedmyr, Mosegravene 10, 5471 Sønderød
- 00,00-08,10 Bogense Skole, Gyldensteensvej 24, 5400 Bogense

Personer på centeret

- B 08,10 Albin Wisén, Frigårdsvej 12, 5471 Sønderød
- B 08,10 André de Vries, Lillebro 43, 5450 Otterup
- B 08,10 Dennis Kirkeby, Højagervej 42, 5471 Sønderød
- B 08,10 Harm Wibier, Odensevej 61, 5471 Sønderød
- B 08,10 Janne Olsson, Plantagevej 14, 5450 Otterup
- B 08,10 John Tuohy, Veflinge Skowej 76, 5471 Sønderød
- B 08,10 Jonas Pålsson, Bogensevej 108, 5471 Sønderød
- B 08,10 Nils Svedmyr, Mosegravene 10, 5471 Sønderød
- B 08,10 Per Thomson, Rødeled 1, 5400 Bogense
- B 08,10 Ulf Leandersson, Kildehaven 16, 5474 Veflinge
- C 12,59 Albin Wisén, Frigårdsvej 12, 5471 Sønderød

Drag & Drop in cWebList

The screenshot displays the cWebList interface with two dropdown menus at the top. The left dropdown is labeled 'Bil:' and contains the text '405: Munkebo vl. 2708 (5 pers.)'. The right dropdown is labeled 'Center:' and contains the text '175 Otterup Skole'. Below these are two lists of people. The left list is titled 'Personer på turen' and contains five entries. The right list is titled 'Personer på centeret' and contains ten entries. Several entries in the right list are highlighted in green, indicating they have been dragged from the left list. The interface is enclosed in a decorative border.

Bil: 405: Munkebo vl. 2708 (5 pers.)

Center: 175 Otterup Skole

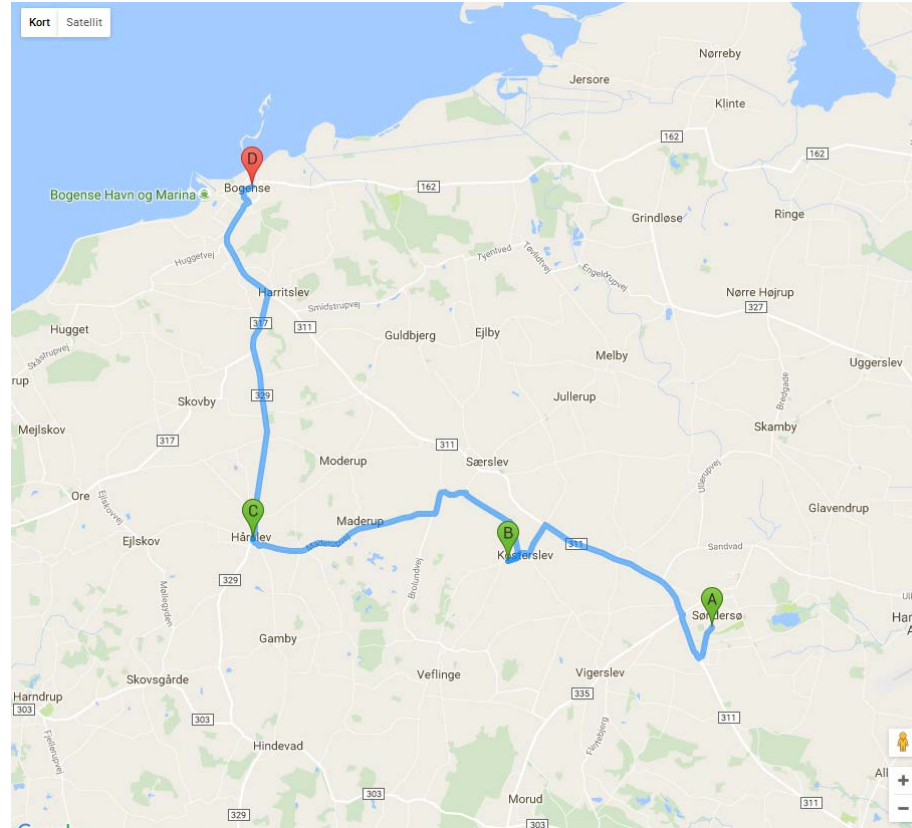
Personer på turen

- 07,15-07,17 Charlotte Brøgger Grønvold, Ralgyden 18, 5471 Sønderø
- 07,17-07,19 Sture Brøgger Andersen, Ralgyden 18, 5471 Sønderø
- 07,23-07,25 Janine Weijers, Rugårdsvej 892, 5471 Sønderø
- 07,38-07,40 Mike Peat, Drosselvej 4, 5471 Sønderø
- 07,52-07,55 Otterup Skole, Skolegade 12, 5450 Otterup

Personer på centeret

- B 07,55 Anders Nilsson, Lindebjerg Have 32, 5474 Veflinge
- B 07,55 Charlotte Brøgger Grønvold, Ralgyden 18, 5471 Sønderø
- B 07,55 Chip Casanave, Burskovej 1, 5400 Bogense
- B 07,55 Janine Weijers, Rugårdsvej 892, 5471 Sønderø
- B 07,55 Karin Dalberg, Adelgade 80 B 1, 5400 Bogense
- B 07,55 Maibritt Stengaard, Skovej 30, 5400 Bogense
- B 07,55 Mike Peat, Drosselvej 4, 5471 Sønderø
- B 07,55 Nick Nikijuluw, Rugårdsvej 892, 5471 Sønderø
- B 07,55 Per Herkel, Odensevej 42 A, 5400 Bogense
- B 07,55 Sture Brøgger Andersen, Ralgyden 18, 5471 Sønderø
- C 12,49 Charlotte Brøgger Grønvold, Ralgyden 18, 5471 Sønderø

Show Google Maps



Show Google Maps

```
Procedure OnClick
```

```
    WebSet pbRender of oWebList2 to False
```

```
    WebSet pbRender of oVisRuteFrame to True
```

```
    Send ProcessDataSet of oWebList1 5
```

```
End_Procedure
```

```
// From OnProcessDataSet
```

```
String[] sXY
```

```
If (eOperation=5) Begin // Show Google Maps
```

```
    For iRow from 0 to iMax
```

```
        Move (InsertInArray(sXY,-1,aData[iRow].aCells[0].aOptions[0])) to sXY
```

```
    Loop
```

```
    Get GMapsURLFraLatLong sXY to sURL
```

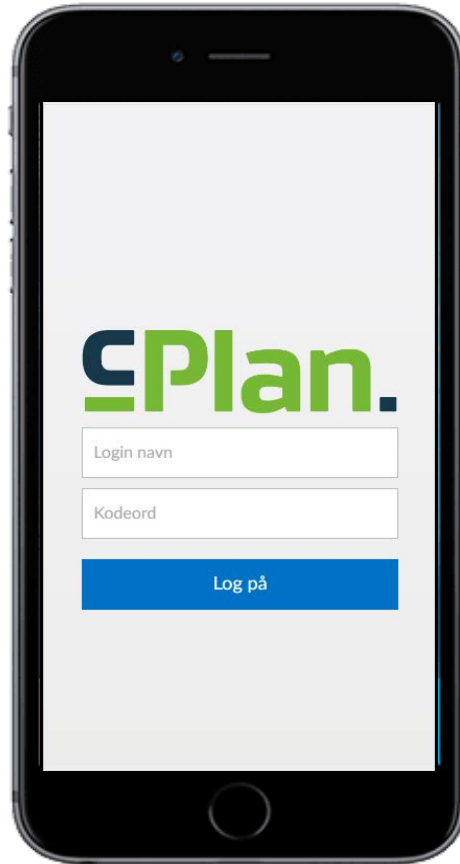
```
    If (sURL<>"") Begin
```

```
        WebSet psURL of oVisRuteFrame to ("https://cplan.fynbus.dk/"+sURL)
```

```
    End
```

```
End
```

Mobile Demo



Thank You

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