

JavaCro19

multicom

Build strong web
application data
layout using TreeGrid

Ivan Novotni

Software developer at Multicom d.o.o.

Story line

Data layout challenge

Solution study

Outhouse solution

Inhouse solutions

Data layout
challenge

What does you client
want?

What can he handle?

What can you handle?

Solution study

- Fat client – it's to fat
- Thin client – one way street
- Treegrid

-> Editable JavaScript TreeGrid is a DHTML component written in pure JavaScript to display and edit data in table, grid, tree view, tree grid or bar chart on HTML page.
It is the fastest AJAX grid with the richest features set available on the Internet[1]



Microsoft Internet Explorer
IE6, IE7, IE8, IE9, IE10, IE11
Microsoft Edge IE12 - IE18
*(all document modes
quirks, quirks5, strict, compatibility)*



Mozilla Firefox
FF1.5 - FF65



Google Chrome
CH3 - CH72



Apple Safari
Mac OSX & Windows
S3 - S12



Opera
O9 - O12 (Presto)
O15 - O57 (WebKit)



Apple iOS
Safari Mobile
S4 - S12
CH / FF / UC



Android Mobile
CH / FF / UC / SS
2.x, 3.x, 4.x, 5, 6, 7, 8

(And all Trident, Gecko and WebKit / Chromium / Blink engine clones)

ID	SEQ	PLAN_TYPE	CODE	TARIFF	BUNDLE	OVERRIDE_LABEL	LOW_LIMIT	HIGH_LIMIT	PRICE
221	900	1	Svijet 40						20
524	900	1	INT TEL Start Bit plus						191,2
525	900	1	INT TEL Start Bit plus			UO12			179,2
526	900	1	INT TEL Start Bit plus			UO24			164
527	900	1	INT TEL Surf Bit plus						195,2
528	900	1	Wrap attribute - wrap text to more lines						183,2
529	900	1	Align attribute						168
530	900	1	HtmlPrefix/HtmlPostfix - border						199,2
531	900	1	Color - background						187,2
532	900	1	Format Text						172
533	900	1	All attributes						206,4
534	900	1	INT TEL Trend Bit plus			UO12			194,4
535	900	1	INT TEL Trend Bit plus			UO24			179,2
536	900	1	INT TEL Ekstra Bit plus						211,2

id	A	B	C	D
1	Wrap attribute - wrap text to more lines	Rotate 1	Rotate 2	
2	Align attribute			Class - vertical align
3	HtmlPrefix/HtmlPostfix - border	Class - border		ClassInner - border
4	Color - background	Background		ClassInner - background
5	Format Text	-3456.79 USD	Dec 31, 2000	14.56.30
6	All attributes	Cursor		Class - font settings

Outhouse solution

- Grid data from file, JS variable, JSF variable, Servlet, REST
- JSON or XML input
- 13 languages currently → Croatian in progress
- 16 different CSS styles
- Client or server paging (C#, Java, NodeJS, PHP)
- Included in HTML with treegrid tag or in simple div (with reference in JS function)

<Grid>

<Cfg id="Basic" Paging="2" MaxVScroll="600" PageLength="20"/>

<Panel Visible="1"/>

<Cols>

<C Name="USERNAME" Type="Text"/>

<C Name="FIRSTNAME" Type="Text"/>

<C Name="LASTNAME" Type="Text"/>

</Cols>

<Body>

<I USERNAME ="user1" FIRSTNAME ="first1" LASTNAME="last1"/>

<I USERNAME ="user2" FIRSTNAME ="first2" LASTNAME="last2"/>

<I USERNAME ="user3" FIRSTNAME ="first3" LASTNAME="last3"/>

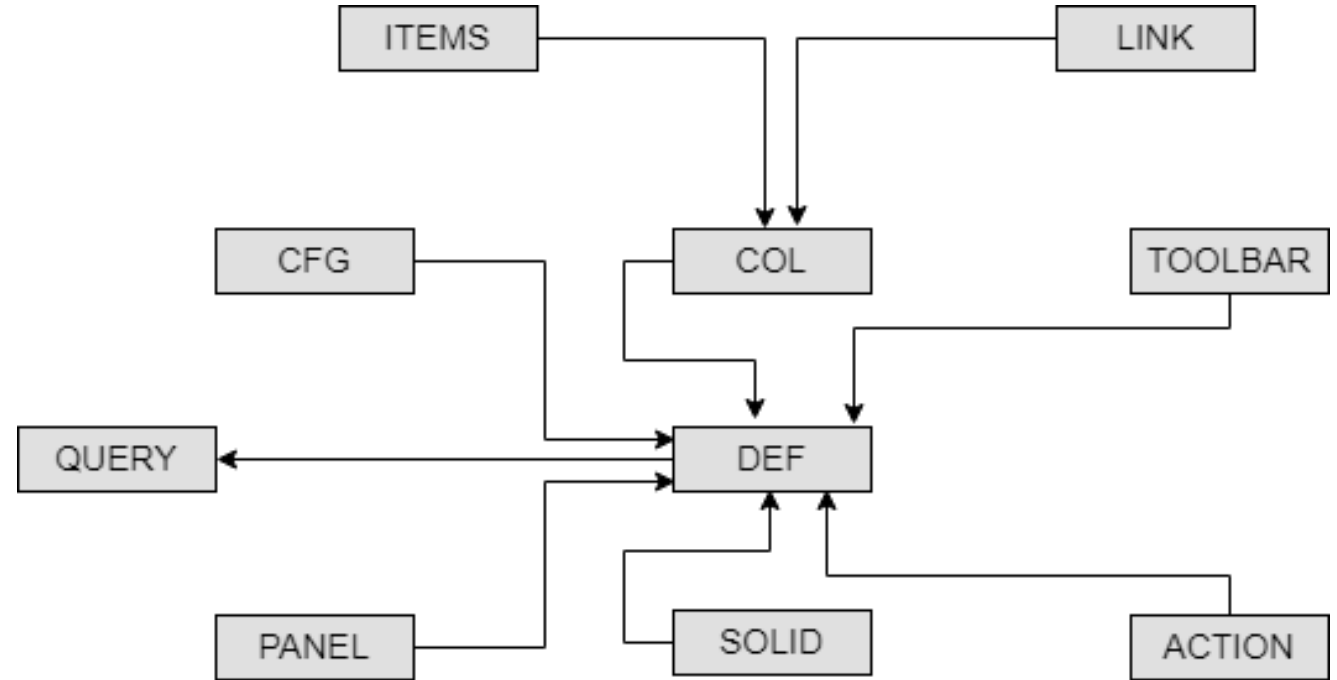
</Body>

<Toolbar Visible="1"/>

</Grid>

Inhouse solution

- Let's think generic
- Oracle/PostgreSQL/Servlet/REST input



Inhouse solution

- Inhouse creating and editing from simple HTML form

mBill Config Processes Izvještaji Prilagodene forme Admin Grid Mbill Admin

+ Grid basket editor

Postojeći gridovi

ID	NAME	DESCRIPTION	CREATE_DATE	CREATED_BY	STATE	STATUS	QUERY_ID	SAVE_PROCEDURE
236	PAKET_PLAN_NEW_grid	null	2018-02-27 16:26:11.0	tsulekic	1	OK	PAKET_PLAN_NEW	nesto
237	PAKET_PLAN_grid	null	2018-09-05 09:55:50.0	tsulekic	1	OK	PAKET_PLAN	INTF_MBILLMERGE_PC_PRODUCT_PLANS
238	PAKET_PLAN_ATT_grid	null	2018-03-15 12:48:43.0	tsulekic	1	OK	PAKET_PLAN_ATT	INTF_MBILLMERGE_PC_PRODUCT_PLAN_ATTR_MAP
239	PAKET_PLAN_ATT_NEW_grid	null	2018-04-09 16:46:34.0	tsulekic	1	OK	PAKET_PLAN_ATT_NEW	INTF_MBILLINSERT_PRODUCT_ATTRIBUTE
24	asset_counters_grid	null	2017-05-10 00:00:00.0	tsulekic	1	OK	asset_counters	INTF_MBILLMERGE_ASSET_CNTRS
240	ASSIGN_PAKET_grid	null	2018-02-27 16:28:29.0	inovotni	1	OK	ASSIGN_PAKET	INTF_MBILLMERGE_PC_PACKAGE_ASSIGN
241	ASSIGN_PAKET_NEW_grid	null	2018-03-15 12:49:51.0	inovotni	1	OK	ASSIGN_PAKET_NEW	nesto
242	BILL_SRC_EXT_ACC_grid	null	2018-03-02 12:23:06.0	tsulekic	1	OK	BILL_SRC_EXT_ACC	nesto
243	ASSIGN_PAKET_ASSET_grid	Dodjeljivanje paketa	2018-03-13 15:57:40.0	tsulekic	1	OK	ASSIGN_PAKET_ASSET	INTF_MBILLMERGE_ASSET
244	13_LT_grid	null	2018-09-20 13:47:07.0	vnovak	1	OK	13_LT	INTF_MBILLMERGE_LT_LINES
245	IN_RUC_NAKNADE_grid	null	2019-04-30 14:31:09.0	tsulekic	1	OK	IN_RUC_NAKNADE	INTF_MBILLMERGE_RUC_NAKNADE
246	proba_grid	null	2018-03-21 15:33:46.0	tsulekic	1	OK	proba	nesto
247	error_report_grid	null	2018-03-22 10:24:53.0	vnovak	1	OK	error_report	nesto
248	REPORT_RAC_NAPLATE_grid	null	2018-04-09 13:37:34.0	inovotni	1	OK	REPORT_RAC_NAPLATE	nesto
249	14_LT_grid	null	2018-04-13 13:00:46.0	tsulekic	1	OK	14_LT	INTF_MBILLMERGE_LT_LINES

Stvori novi

Postavke dinamičkog grida

Upit

Status: Query OK! Broj zapisa: 35

QUERY_ID	QUERY_VALUE	Test
proba	SELECT * FROM MFR_USERS	Testiraj query!

Konfiguracija (Cfg) Postavke kolona Postavke Akcija Postavke Linkova Postavke toolbara Postavke panela

Prikaži grid

Spremi

	USER_NAME	APPLICATION_ID	PASSWORD	USER_STATUS	LAST_LOGIN_DATE	LOGIN_ATTEMPTS_COUNT	Naplata
	mgrbovic	MCRM	8F17DD06CB59CE8D5F20E6E9400A1689B23D66EE	ENABLED	2018-11-09 09:40:48.0	2	?
	mikladic	MCRM	C72B63B8D1FD05AFB603548D04051562B88F950B3	ENABLED	2018-11-09 10:04:30.0	0	
	gsaric	MCRM	F3A9120FD04837811E47B37D378B2C323539F13FD	INITIAL	2018-11-02 16:10:52.0	0	
	asusac	MCRM	ECB6242F640E15B63C735CAC4B055EB14B53164	ENABLED	2018-11-06 10:17:37.0	0	
	ljmatic	MCRM	CC56EA6095E9F6DFD13468CDD26E25B4DA4E0DAB	INITIAL	2018-11-06 10:18:14.0	0	
	vdukin	MCRM	7B1A3AE3E9F28BFB12699710E8B62C1CFB0CF74D3	ENABLED	2018-12-12 13:21:26.0	0	
	imamic	MCRM	75244D3B88C0C30EFF6C1428FCA5A07D48A0CC6D	ENABLED	2018-11-02 10:13:08.0	2	
	szutic	MCRM	EB3594226E5A185DF00EA801D2E00E1455530E0D	ENABLED	2018-12-27 12:19:00.0	0	
	jravic	MCRM	0135E39B4B1C7B1BEFD6F083A22196D0944ABFD1	INITIAL	2018-12-11 11:00:28.0	0	
	dmalkovic	MCRM	85B5E9C7D975EA18BA81E08D928C1FCE4A34A9AC	ENABLED	2018-06-01 11:29:08.0	0	
	vnovak	MCRM	744EB7D9183515C30B7F0E582400B3377CB0623C	ENABLED	2019-05-07 17:30:04.0	0	

Inhouse solution

- Included in HTML with iframe or standard outhouse solution
- Duplex iframe communication between grids
- Iframe resizing
- Paging calculated directly on database
- Property override by user
- Bulk database actions
- Async database JOBS
- Validation
- Connected column dropdown SQL query

Conclusion

Insure your client
that you know what
is the best for him

Use components with
interactive support
and flexible API

Links

- [1] <http://www.treegrid.com/Grid>

Q & A

