Plansoft.org – source code

2025.03.16 Maciej Szymczak

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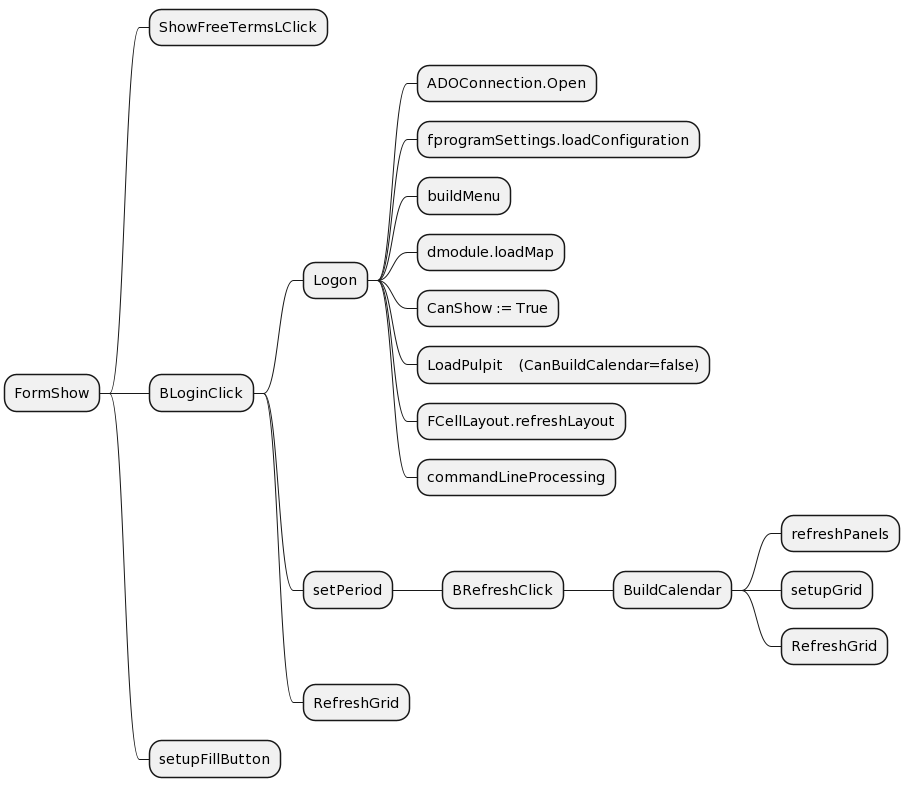
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## Events

### Initial sequence



<https://www.planttext.com/?text=NP71ReCm38RlF4LkspZq0IPLwc1Y5wgYjI-G4aEjEJ5o4bLx-oKDJDCu-V_ui9rmy45BiEYCrKjLFRLi5ntmIg3k66xg9FEH3QYggbN7OiytlgUwLhde1E02OdtV4evV6JSzp-YsMAiKsUMgLc_lfvQTWp4WkzrfWPLFY_0isfuX17Iptn5haym9voWwoyMxHYHp11TBD9PD97ZOnxJx0xRQvSNKwrvT94A1VJA6I0i6bPxdv3IvLQi9dD6odpHvU2bkrm9HhxyvXft09E1l9PNN8rkhdUdHmI0yWlTfuyT1FOG11DaKiVai7__UH6P_fnPMgtN8e1sGts1g5fSFGRE1jTk6_kNYTqZKn13IVLM7D6FzgJy0>

### Grid refresh

Use **deepRefreshDelayed**

Refreshes entire screen in 2 seconds delay.

deepRefreshImmediate is for internal use only, do not use it. Use deepRefreshDelayed instead.

### Cache

**convertGrid** converts position in grid into day and hour. Next day and hour is used by ClassByGroupCaches to get the class and render it on the screen.

**TClassByGroupCaches**

Used for finding the classes by date/time and groupId.

Keeps the cache for many groups, see the array **Data**.

There is also **TClassByResCaches** (same for rooms) and **TClassByLecturerCaches** (same for lecturers).

**TClassByChildCache**

Used by 3 above

## How to save/load settings

The best way to save or load setting is to mimic these procedures:

* procedure TFMatrix.LoadFromIni ( inifilename : tfilename );
* procedure TFMatrix.saveToIni ( inifilename : tfilename );

### Settings for Matrix

procedure TFMatrix.LoadFromIni ( inifilename : tfilename );

procedure TFMatrix.saveToIni ( inifilename : tfilename );

### Settings for traditional printing (Menu | Print)

Settings in kept in files A3, A4 (without extension) in path C:\Users\Maciek\Planowanie\documents.

Settings is in .ini format.

On first program execution, files are copied from the path exepath.

Search source code for “A4” to learn more.

# Database

## Single value

resultString := DModule.SingleValue('select planner\_utils.get\_excluded\_res\_ids(''' +Ids+ ''') result from dual');

Use DModule.SingleValue2 when dataset1 is in use (for example inside loop)

resultString := DModule.SingleValue2('select planner\_utils.get\_excluded\_res\_ids(''' +Ids+ ''') result from dual');

## Recordset

<to do>

## Stored procedure: no parameters

DModule.SQL('BEGIN PLANNER\_UTILS.UPDATE\_LGRS; END;');

## Stored procedure: with parameters

|  |
| --- |
| with dmodule.QWork do begin  SQL.Clear;  SQL.Add('begin planner\_utils.clone\_holidays (:source\_per\_id, :target\_per\_id, :delete\_target); end;');  Parameters.ParamByName('source\_per\_id').value := conPeriod.Text;  Parameters.ParamByName('target\_per\_id').value := KeyValue;  Parameters.ParamByName('delete\_target').value := 'Y';  execSQL;  end; |

# Progress bar

|  |
| --- |
| FProgress.Show;  //range 0-100  FProgress.ProgressBar.Position := round(currentCnt \* FProgress.ProgressBar.Max / classesToAdd);  FProgress.Refresh;  FProgress.Hide;  Also add “FProgress.Hide;” on exit / exception. |

# Floating message

FFloatingMessage.showModal('test');

# SSO integration: Active directory

1. Install Oracle with ActiveDirectory configuration
2. Change in plansoft.org:

AdoConnection.ConnectionString needs to be: 'Provider=OraOLEDB.Oracle;Data Source=YourOracleDB;OSAuthent=1;';

*//OSAuthent=1* tells Oracle to use the current Windows user for authentication.

AdoConnection.LoginPrompt := False;  
AdoConnection.Connected := True;

# Exceptions

Exception.CreateFmt('weeklyTable.addCell, Row %s does not exist', [rowLabel]);

# Appendix: Data Model: Group hierarchies

[RELACJA “JEDNA GRUPA NADRZEDNA” 1](#_Toc113032964)

[ZAJECIE GNAD (bez wykładowcy i Sali) 1](#_Toc113032965)

[ZAJECIE GPOD1 I GPOD2 2](#_Toc113032966)

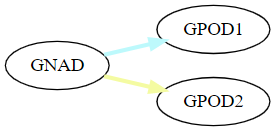
[RELACJA “WIELE GRUP NADRZEDNYCH” 2](#_Toc113032967)

[ZAJECIE GNAD (bez wykładowcy i Sali) 2](#_Toc113032968)

[ZAJECIE GPOD1, GPOD2 3](#_Toc113032969)

[Open issues 4](#_Toc113032970)

## RELACJA “JEDEN BEZPOSRREDNI RODZIC”



|  |
| --- |
| **select** ID, CALC\_GROUPS, desc1, desc2, calc\_lecturers, calc\_rooms, owner **from** classes **order** **by** id;  **select** ID, GRO\_ID, CLA\_ID, IS\_CHILD, NO\_CONFLICT\_FLAG, PARENT\_ID  , (**select** **name** **from** **groups** **where** id = gro\_id) gro\_name  , (**select** **name** **from** **groups** **where** id = parent\_id) parent\_name  **from** gro\_cla **order** **by** id;    **select** ID, lec\_ID, CLA\_ID, IS\_CHILD, NO\_CONFLICT\_FLAG, PARENT\_ID  lec\_cla **order** **by** id;  **select** ID, rom\_ID, CLA\_ID, IS\_CHILD, NO\_CONFLICT\_FLAG, PARENT\_ID  rom\_cla **order** **by** id; |

### ZAJECIE GNAD (bez wykładowcy i Sali)

CLASSES

|  |  |
| --- | --- |
| **ID** | **CALC\_GROUPS** |
| 5916843 | GNAD |

GRO\_CLA

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **GRO\_ID** | **CLA\_ID** | **IS\_CHILD** | **NO\_CONFLICT\_FLAG** | **PARENT\_ID** | **GRO\_NAME** | **PARENT\_NAME** |
| 10603048 | 4096192 | 5916843 | N |  |  | GNAD |  |
| 10603049 | 4096193 | 5916843 | Y |  | 4096192 | GPOD1 | GNAD |
| 10603050 | 4096194 | 5916843 | Y |  | 4096192 | GPOD2 | GNAD |

Brak rekordów w LEC\_CLA, ROM\_CLA

PO SKASOWANIU RELACJI: ŻÓŁTE REKORDY SĄ USUWANE (ZMIANA W DNIU 2024.01.13)

### ZAJECIE GPOD1 I GPOD2

CLASSES

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ID** | **CALC\_GROUPS** | **DESC1** | **DESC2** | **CALC\_LECTURERS** | **CALC\_ROOMS** | **OWNER** |
| 5916845 | GPOD2 |  |  |  |  | PLANNER |
| 5916843 | GPOD1 |  |  |  |  | PLANNER |
| 5916844 | GNAD | Zajecia podrzędne | GPOD1; GPOD2 | POD | POD POD | AUTO |

GRO\_CLA

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **GRO\_ID** | **CLA\_ID** | **IS\_CHILD** | **NO\_CONFLICT\_FLAG** | **PARENT\_ID** | **GRO\_NAME** | **PARENT\_NAME** |
| 10603053 | 4096194 | 5916845 | N |  |  | GPOD2 |  |
| 10603051 | 4096193 | 5916843 | N |  |  | GPOD1 |  |
| 10603054 | 4096192 | 5916844 | N | + |  | GNAD |  |

LEC\_CLA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **LEC\_ID** | **CLA\_ID** | **IS\_CHILD** | **NO\_CONFLICT\_FLAG** | **PARENT\_ID** |
| 6466708 | -1 | 5916844 | N | + |  |

ROM\_CLA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **ROM\_ID** | **CLA\_ID** | **IS\_CHILD** | **NO\_CONFLICT\_FLAG** | **PARENT\_ID** |
| 5169342 | -1 | 5916844 | N | + |  |

PO SKASOWANIU RELACJI: ZNIKAJA ŻÓŁTE REKORDY

PO SKASOWANIU ZAJEC ZA POMOCA OKNA LISTA ZAJEC: ŹÓŁTE REKORDY ZOSTAJA (CO NIE JEST WŁAŚCIWE, NATOMIAST PO WEJŚCIU NA ROZKŁAD KAŻDEJ GRUPY I PO ODŚWIEŻENIU-ZNIKAJĄ).

## RELACJA “WIELE GRUP NADRZEDNYCH”

### ZAJECIE GNAD (bez wykładowcy i Sali)

Rekordy zolte pojawiają się w tabeli po otwarciu rozkładu GPOD1, GPOD2 (wcześniej ich nie ma)

CLASSES

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ID** | **CALC\_GROUPS** | **DESC1** | **DESC2** | **CALC\_LECTURERS** | **CALC\_ROOMS** | **OWNER** |
| 5916844 | GNAD |  |  |  |  | PLANNER |
| 5916846 | GPOD2 | Zajecia nadrzędne | GNAD | NAD | NAD NAD | AUTO |
| 5916847 | GPOD1 | Zajecia nadrzędne | GNAD | NAD | NAD NAD | AUTO |

GRO\_CLA

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **GRO\_ID** | **CLA\_ID** | **IS\_CHILD** | **NO\_CONFLICT\_FLAG** | **PARENT\_ID** | **GRO\_NAME** | **PARENT\_NAME** |
| 10603063 | 4096192 | 5916844 | N |  |  | GNAD |  |
| 10603064 | 4096194 | 5916846 | N | + |  | GPOD2 |  |
| 10603065 | 4096193 | 5916847 | N | + |  | GPOD1 |  |

LEC\_CLA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **LEC\_ID** | **CLA\_ID** | **IS\_CHILD** | **NO\_CONFLICT\_FLAG** | **PARENT\_ID** |
| 6466713 | -2 | 5916846 | N | + |  |
| 6466714 | -2 | 5916847 | N | + |  |

ROM\_CLA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **ROM\_ID** | **CLA\_ID** | **IS\_CHILD** | **NO\_CONFLICT\_FLAG** | **PARENT\_ID** |
| 5169347 | -2 | 5916846 | N | + |  |
| 5169348 | -2 | 5916847 | N | + |  |

PO SKASOWANIU RELACJI: ZNIKAJA ŻÓŁTE REKORDY

### ZAJECIE GPOD1, GPOD2

Bez względu na rodzaj wybranej relacji przypadek „zajecie gpod1, gpod2” wygląda identycznie.

CLASSES

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ID** | **CALC\_GROUPS** | **DESC1** | **DESC2** | **CALC\_LECTURERS** | **CALC\_ROOMS** | **OWNER** |
| 5916844 | GPOD1 |  |  |  |  | PLANNER |
| 5916848 | GPOD2 |  |  |  |  | PLANNER |
| 5916849 | GNAD | Zajecia podrzedne | GPOD1; GPOD2 | POD | POD POD | AUTO |

GRO\_CLA

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **GRO\_ID** | **CLA\_ID** | **IS\_CHILD** | **NO\_CONFLICT\_FLAG** | **PARENT\_ID** | **GRO\_NAME** | **PARENT\_NAME** |
| 10603066 | 4096193 | 5916844 | N |  |  | GPOD1 |  |
| 10603067 | 4096194 | 5916848 | N |  |  | GPOD2 |  |
| 10603068 | 4096192 | 5916849 | N | + |  | GNAD |  |

LEC\_CLA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **LEC\_ID** | **CLA\_ID** | **IS\_CHILD** | **NO\_CONFLICT\_FLAG** | **PARENT\_ID** |
| 6466715 | -1 | 5916849 | N | + |  |

ROM\_CLA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **ROM\_ID** | **CLA\_ID** | **IS\_CHILD** | **NO\_CONFLICT\_FLAG** | **PARENT\_ID** |
| 5169349 | -1 | 5916849 | N | + |  |

PO SKASOWANIU RELACJI: ZNIKAJA ŻÓŁTE REKORDY

IS\_CHILD – jest używane tylko w przypadku 1 (1 z 4)

**NO\_CONFLICT\_FLAG** – jest + gdy zajecia utworzone sa przez użytkownika AUTO (szare zatyczki)

## Troobleshhoting

|  |
| --- |
| clean ups  =====================================================  create table backup20241301\_gro\_cla as  select \* from gro\_cla where is\_child='Y' and no\_conflict\_flag is null  begin  for rec in (select unique gro\_id child\_id, parent\_id from gro\_cla where is\_child='Y' and no\_conflict\_flag is null) loop  declare  cnt number;  child\_name varchar2(200);  parent\_name varchar2(200);  begin  select count(1) into cnt from str\_elems where parent\_id = rec.parent\_id and child\_id = rec.child\_id;  --the relation does not exist  if (cnt=0) then  delete from gro\_cla where is\_child='Y' and no\_conflict\_flag is null and gro\_id = rec.child\_id and parent\_id = rec.parent\_id;  select name into child\_name from groups where id = rec.child\_id;  begin  select name into parent\_name from groups where id = rec.parent\_id;  exception  when others then  parent\_name := 'NOT\_FOUND';  end;  xxmsz\_tools.insertIntoEventLog ( REPLACE(REPLACE('REMOVED: PARENTID:{2} CHILDID:{1}','{1}',child\_name || ' [' ||rec.child\_id|| ']'),'{2}',parent\_name || ' [' ||rec.parent\_id|| ']'), 'I', 'STR\_ELEMS\_CLEANUP');  commit;  end if;  end;  end loop;  commit;  end;  --review the results  select \* from xxmsztools\_eventlog where module\_name = 'STR\_ELEMS\_CLEANUP' order by id desc  --removed  select ID, GRO\_ID, CLA\_ID, IS\_CHILD, NO\_CONFLICT\_FLAG, PARENT\_ID, created\_by, DAY, HOUR  , (select name from groups where id = gro\_id) gro\_name  , (select name from groups where id = parent\_id) parent\_name  from backup20241301\_gro\_cla where id in  (  select id from backup20241301\_gro\_cla  minus  select id from gro\_cla  )  --removed - unique list  select unique created\_by  , (select name from groups where id = gro\_id) gro\_name  , (select name from groups where id = parent\_id) parent\_name  from backup20241301\_gro\_cla where id in  (  select id from backup20241301\_gro\_cla  minus  select id from gro\_cla  )  --clean ups  delete from xxmsztools\_eventlog where module\_name = 'STR\_ELEMS\_CLEANUP' |

## Open issues

* Po co sa tworzone rekordy dla LEC\_ID=-1, ROM\_Id=-1? Gdyby z nich zrezygowac to może można by tez skasowac indeks funkcyjny z NO\_CONFLICT\_FLAG?
* Lista zajęć: kasowanie: powinno też usuwać NAD, POD, a nie robi tego – zobacz jak robi to planner\_utils i być może trzeba uruchamiać planner utils po skasowaniu.

# Service

|  |  |
| --- | --- |
| Issue | Resolution |
| 2025.01.05  Switching the pulpit (and period)  Line “out\_isbusy := global[t1][Zajecia].isBusy;” is executed before “convertGrid.setupGrid (conPeriod.text, BViewByWeek.Down, TabViewType.TabIndex, CrossFilter.text, colCnt, rowCnt);” is executed resulting in error “range check error”. | Line “grid.Visible := false;” was added in “procedure TFMain.deepRefreshDelayed;”.  This line blocks any references to cache since cache may not be in in stable state. |