ADIOS framework

Models and Callbacks

May 31, 2023

Model (\ADIOS\Core\Model)

- Implemented in src/Core/Model.php
- Definition of columns, indexes and DB upgrades
- DB-related methods, either ADIOS native or Eloquent's
- Support for 1:N and M:N relations
- Standardized CRUD operations
- 13 callbacks currently implemented

Implemented callbacks

```
onTableBeforeInit($tableObject) : void
onTableAfterInit($tableObject) : void
onTableAfterDataLoaded($tableObject) : void
onFormBeforeInit($formObject) : void
onFormAfterInit($formObject) : void
onBeforeInsert($data)
onModelBeforeUpdate($data)
onBeforeSave($data)
onAfterInsert($data)
onModelAfterUpdate($data)
onAfterSave($data, $returnValue)
onBeforeDelete(int $id)
onAfterDelete(int $id)
```

3 groups of callbacks:

- Callbacks for CRUD
 - Insert, Update, Save, Delete
- Callbacks for UI/Table:
 - Before/After init
 - After data loaded
 - These are the replacement for the tableParams()
- Callbacks for UI/Form:
 - Before/After init
 - These are the replacement for the formParams()

Legacy "callbacks" (copy&paste from old ADIOS)

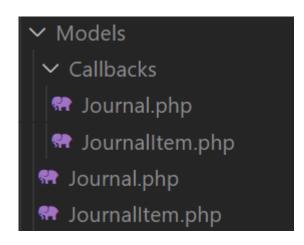
```
tableRowCSSFormatter($data)
tableCellCSSFormatter($data) : void
tableCellHTMLFormatter($data) : void
tableCellCSVFormatter($data) : void
```

These will be replaced by "new" callbacks:

onTableRowCss onTableCellCss onTableCellHtml onTableCellCsv

1. Create a folder "Callbacks" in the folder "Models"

In the example on the right, we have two models "Journal" and "JournalItem" with two separate files for callbacks.



- 1. Create a folder "Callbacks" in the folder "Models"
- 2. Create a trait in the "Callbacks" folder

```
<?php
namespace ADIOS\Widgets\Finance\MainBook\Journal\Models\Callbacks;

trait Journal { ...
}</pre>
```

- 1. Create a folder "Callbacks" in the folder "Models"
- 2. Create a trait in the "Callbacks" folder
- 3. Implement the functionality of the callback

```
<?php

namespace ADIOS\Widgets\Finance\MainBook\Journal\Models\Callbacks;

trait Journal {
    public function onBeforeInsert($data) {
    return $data;
    }
}
</pre>
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- 1. Create a folder "Callbacks" in the folder "Models"
- 2. Create a trait in the "Callbacks" folder
- 3. Implement the functionality of the callback
- 4. Use the trait in the model

Final words

- Implementation of the callbacks is separated from the definition of the model
- Prototype builder generates the empty trait for callbacks automatically