Zend_Calendar - Thomas Weidner

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Zend Framework: Zend_Calendar Component Proposal

Proposed Component Name	Zend_Calendar
Developer Notes	http://framework.zend.com/wiki/display/ZFDEV/Zend_Calendar
Proposers	Thomas Weidner
Revision	0.9 - 21 September 2006: Extension for Zend_Date. (wiki revision: 9)

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1. Overview

Zend_Calendar is an extension class for Zend_Date.
It handles calendar formats different from gregorian calendar.

2. References

- Zend_Date Proposal - Thomas Weidner
- Wiki Calendar Definition
- Calendar Converter
- Calendar Overview

3. Component Requirements, Constraints, and Acceptance Criteria

- Simple API
- Same handling as Zend_Date to increase useability
- Locale aware
- Conversion between different Calendar Formats

4. Dependencies on Other Framework Components

- Zend_Exception
- Zend_Date
- Zend_Locale

5. Theory of Operation

Zend_Calendar will extend Zend_Date to work also with other calendar formats than the gregorian ones.
It will have an adaptor interface to convert between the different formats.

6. Milestones / Tasks

- [IN PROGRESS] Acceptance of Proposal
- Code Basic Class with Adaptor Interface
- Code Arabic Adaptor
- Write unit tests
- Write Docu
- Code Chinese Adaptor
- Code Hebrew Adaptor
- Code Indian Adaptor
- Code Julian Adaptor
- Code Persian Adaptor
- Code Bahai Adaptor
- Code French Adaptor

7. Class Index

- Zend_Calendar
- Zend_Calendar_Exception
- Zend_Calendar_Arabic
- Zend_Calendar_Chinese
- Zend_Calendar_Hebrew
- Zend_Calendar_Julian
- Zend_Calendar_xxxxx (other calendar formats as written in milestones)

8. Use Cases

Define a arabic date, convert to gregorian

```
$cal = Zend_Calendar(Zend_Calendar::ARABIC); // Without input the actual date is used
    $cal->setDate('1385 Dey 05');
    print $cal->toGregorian();
```

Work with Calendars

```
$cal = Zend_Calendar(Zend_Calendar::GREGORIAN, '13 Februar 2009', 'de_AT'); // locale aware useage
    $cal->addYear(4);
    print $cal->toArabic();
```

Work with Calendars

```
$cal = Zend_Calendar(Zend_Calendar::ARABIC, '1385 Dey 05'); // locale aware useage
    $cal->addYear(4);
    print $cal->toString();
    $cal->setTime('13:22:45');
    if ($cal->compare('2006-03-05 13:22:45')) {
        print "Same Date even if other calendar format";
    }
```

9. Class Skeletons

```
class Zend_Calendar extends Zend_Date
{
    /** A toxxx function for each Calendar format
     */
    function toArabic()
    function toGregorian()
    function toChinese()
    ...

    /** What calendar is used actually
     */
    function usedCalendar()

    /** Extend every function which generates gregorian output to output the
     *  used calendar format instead
     */
    function toString()
    function set()
    function get()
}

class Zend_Calendar_Arabic {}
class Zend_Calendar_Chinese {}
class Zend_Calendar_Gregorian {} // default adaptor where all other adaptors are routed to as it
integrates Zend_Date
class Zend_Calendar_Exception {}
```

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