**ATutor Calendar Module Documentation**

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1. **INTRODUCTION**

The **ATutor Calendar Module** allows the user to view the dates relevant to his/her courses using a simple calendar + accordion interface.

The calendar accesses dates via AJAX. The accordion provides the different views.

1. **REQUIREMENTS**

This module requires that the **atutor\_cal\_1** patch be installed on the server, which updates the Module.class.php script.

**Note** :- There are module\_extend\_date.php scripts located in 3 folders(assignments,tests and courses) in the patch folder. These have to be manually copied into the respective module folders

**assignments** (mods/\_standard/assignments)

**tests** (mods/\_standard/tests)

**courses** (mods/\_core/courses)

1. **INSTALLATION**

Please refer to http://help.atutor.ca/developer/modules.html#installation on how to install a module.

1. **DESIGN & IMPLEMENTATION**

The ATutor Calendar Module uses a calendar + accordion interface. The calendar provides the users with the dates relevant to the course.

The accordion provides the different views for each date namely Month,Week and Date views. It also has an export interface.

* 1. **Calendar Interface**

The calendar interface displays the dates based on the courses that the user is enrolled in. Each date has its own class. For example, course dates are displayed in a color different from the test dates. This makes it easier for the user to distinguish dates. The calendar receives these dates via the modules which are exposed using the **module\_extend\_date.php** script.

The calendar interface also uses tooltips which gives the users a quick view of the events on that date. When the number of events increases, the tooltip content will be restricted because the tooltip is just for giving a brief and quick idea of the events on that date.

This is implemented using the jQuery UI plugin Datepicker which is highly configurable. More info can be found at <http://jqueryui.com/demos/datepicker/> .

* 1. **Accordion (Views) Interface**

The accordion or views interface provides with the user a more detailed event description. It is divided into 3 views namely Month, Week and Date views which are explained below.

* + 1. **Month View**

This view shows other dates that are in the same month as the currently selected date and separates them based on the week of the month that the dates are in. Clicking on any date in the Month View will load the Day View of that date.

* + 1. **Week View**

This view shows other dates that are in the same week as the currently selected date. Clicking any date in the Week View loads the Day View of that date.

* + 1. **Day View**

This view shows the detailed description of events that are occurring on a particular date.

* 1. **Export Interface**

This allows the user to export their course dates to the iCal calendar format which can be used in calendars like Google Calendar.

1. **CODE STRUCTURE**
   1. **Module**

The following is the code structure for the module.

* index.php -- Index page for students.
* index\_instructor.php -- Index page for instructors.
* index\_admin.php -- Index page for administrators.
* calendar.php -- Calendar backend initialization script.

*Loads the structure of the calendar page i.e. the calendar itself as well as the different views*

* js/calendar.js -- Calendar frontend initialization and managing script

*Initializes the calendar as well as the views. Loads the course dates via AJAX by calling* ***dateretrieval.php****.*

* dateretrieval.php -- Script which calls the module\_extend\_date.php script of

the course, tests and assignments modules.

*It is called via AJAX from* ***calendar.js***.

* module\_extend\_date.php -- This script is part of the course, tests and assignments

modules but is required for the functioning of the

ATutor Calendar Module.

*It exposes the dates from the ATutor database which are relevant to the user.*

* export\_import.php -- Initializes the export class and user's timezone settings which

are essential for exporting.

* includes/classes/CalExport.class.php -- This class handles the Exporting of ATutor

calendar dates to iCal format.

*Loads the dates via module\_extend\_date.php and produces a* ***.ics*** *file which can be used in calendars like* ***Google Calendar****.*

* 1. **Patch**
* Module.class.php(modified)

The script Module.class.php (mods/\_core/modules/classes/) is altered so that a extend\_date function is added. This allows dateretrieval.php to access dates via the module (**courses**|**tests**|**assignments**).

* module\_extend\_date.php

This script allows the modules to expose the dates that are associated with that module. It should be located in all 3 modules (**courses**|**tests**|**assignments**).

**6. TODO**

* Improve IE support.
* Add Import feature.
* Allow personalized events to be added.
* Improve timezone implementation.
* Improve cross-browser support.