

# PF4 Gantt Module

Interactive Gantt Chart for Projectfork

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ANGEK DESIGN

## ABSTRACT

A Joomla 3.x module and system plugin that displays an interactive Gantt Chart representation of your Projectfork Projects.

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## Introduction

Angek Design's PF4 Gantt extension comprises a Joomla 3.x module and system plugin that collectively display an interactive Gantt Chart of your Projectfork Projects.

## Installation

Unzip the packaged zip file (PF4\_Gantt\_Chart.zip) to reveal 2 installable Joomla zip files:

- mod\_angek\_pfgantt.zip – which is the gantt module
- plg\_system\_pfangekgantt.zip – which is the system plugin

Install each of these files as per any Joomla extension.

## Configuration

The system plugin does not have any configurable parameters. It only needs to be activated.

The module contains a number of configurable parameters that should be set prior to using the module. Once you have installed the module go to Extensions->Modules and click the "ANGEK DESIGN PF Gantt" module to reveal the following configurable params.

The "Module" Tab contains the following options:

- **Gantt Height** – the height of the Gantt Container (expressed in px). Please note that the Gantt's width will occupy 100% of it's parent container.
- **Milestone Color** – the color of Project Milestones
- **Tasklist Color** – the color of Project Tasklists
- **Task Color** – the color of Project Tasks
- **Delete Action** – the action to take when an item is deleted from within the Gantt Chart. The available options are:
  - Mark as Trashed
  - Mark as Unpublished or
  - Mark as Archived
- **Process Dependencies** – when performing a delete action should that action be recursive? In other words, if you chose to 'mark as Trashed' a particular task then should all the tasks' associated items (comments, notes, files etc) also be 'marked as Trashed'?
- **Show Labels** – should milestone, tasklist and task names appear on the Gantt Chart?
- **Saturday – Working Day?** – Should Saturdays be considered working days? If yes then Saturdays will be included when calculating item durations.
- **Sunday – Working Day?** – As above
- **Holidays** – If you wish to include/display holidays in your Gantt Chart then include the dates (one per line) in the format **mm\_dd**
- **Week Start Day** – should the week start on a Sunday or a Monday?

- **Show Debug Output?** – This should always be set to “No” unless you have been requested to switch it on by a member of our support team.

The “Module Dependencies” Tab contains the following options:

- **Load JQuery UI?** –jQuery UI is required to properly format Gantt elements such as the date picker. This should be disabled if you already load jQuery UI from your site template or existing extension. This module has been tested and found compatible jQuery UI versions up to version 1.11.4.
- **Load Bootstrap?** – Bootstrap js is required for the proper functionality of various Gantt popups and Gantt elements. This should be disabled if you already load Bootstrap JS from your site template or existing extension. This module has been tested and found compatible with Bootstrap JS and CSS versions up to version 3.3.6
- **Load Bootstrap CSS?** – Bootstrap CSS is required to properly format various Gantt popups and elements. This should be disabled if you already load Bootstrap Css from your site template or existing extension.
- **Load Font Awesome?** – Font awesome is used to display various gantt icons and buttons. This should be disabled if you already load font awesome from your site template or existing extension. This module has been tested and found compatible with Font Awesome versions up to version 4.6.2

## Usage

The module will only display a Gantt Chart if the user is in a project workspace.

## Gantt Chart Capabilities

The Gantt Chart provides the following capabilities (as illustrated in figure x):

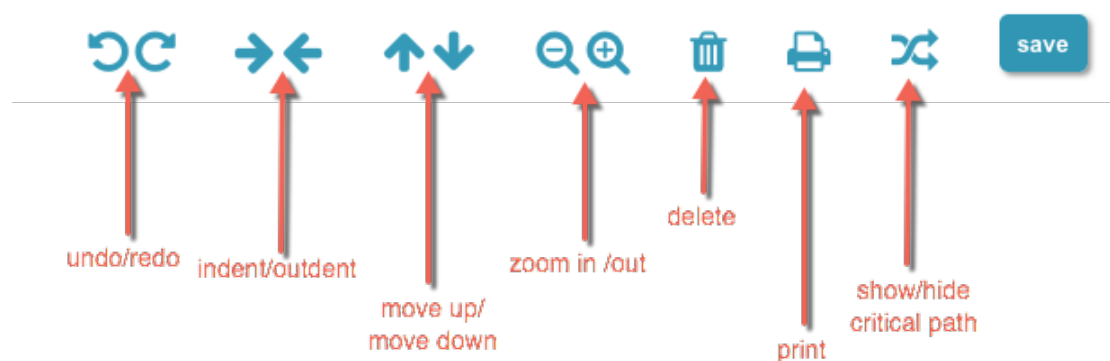


Figure 1 - Gantt Chart Capabilities

- The ability to undo and redo actions
- The ability to indent and outdent items
- The ability to reorder and reposition items by moving items up or down

- The ability to zoom in and out the various zoom levels (day, week, month, quarter, semester)
- The ability to delete items (if Joomla ACL level permits)
- The ability to print the Gantt Chart
- The ability to calculate and display critical paths

## Gantt Chart Structure

The Gantt Chart comprises 2 main sections:

- The Gantt Task Editor (left side)
- The Gantt Chart (right side)

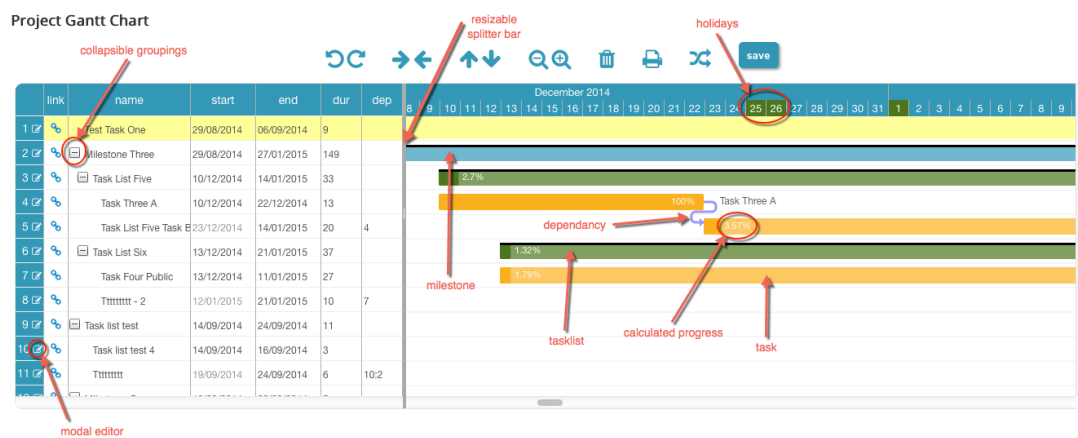


Figure 2 - Gantt Chart Structure

The 2 main sections are separated by a resizable splitter bar.

The Gantt Task Editor displays:

- An item editor icon which, when clicked, provides a modal window allowing the user to update various aspects of each item (such as the item's title, description, duration, start and end dates)
- A link to the detailed view of the item
- The item's start date. Clicking on an item's start date will reveal a popup calendar for date selection.
- The item's end date. Clicking on an item's end date will reveal a popup calendar for date selection.
- The item's duration (in days). Click to manually edit.
- The item's dependencies. Click to manually edit. Refer to dependency section for further details regarding dependencies.

The Gantt Chart section displays:

- A SVG representation of each item
- The item's calculated progress
- A visual representation of an item's dependencies

The Gantt Chart section also provides the ability to:

- Move an item along the horizontal to change its start and end dates. Hover over an item to reveal its move handle. Refer to figure 3 and 4
- Resize an item to change its duration. The resize handle appears near the end of each item bar. Refer to figures 3 and 5
- Drag a task's dependency handle(revealed when you hover over the task) and drop it onto another task to easily create task dependencies. Refer to figures 3 and 6.

**Please Note:** Dependency handles only appear when you hover over tasks and are located at either end of the task. These handles do not appear for tasklists and milestones.

- Double click on an item to display the item's modal editor window. Refer to figures 7 and 8
- Select dependency links and delete them via the keyboard.



Figure 3 - Item Handles



Figure 4 - Move Handle



Figure 5 - Resize Handle



Figure 6 - Dependency Handles

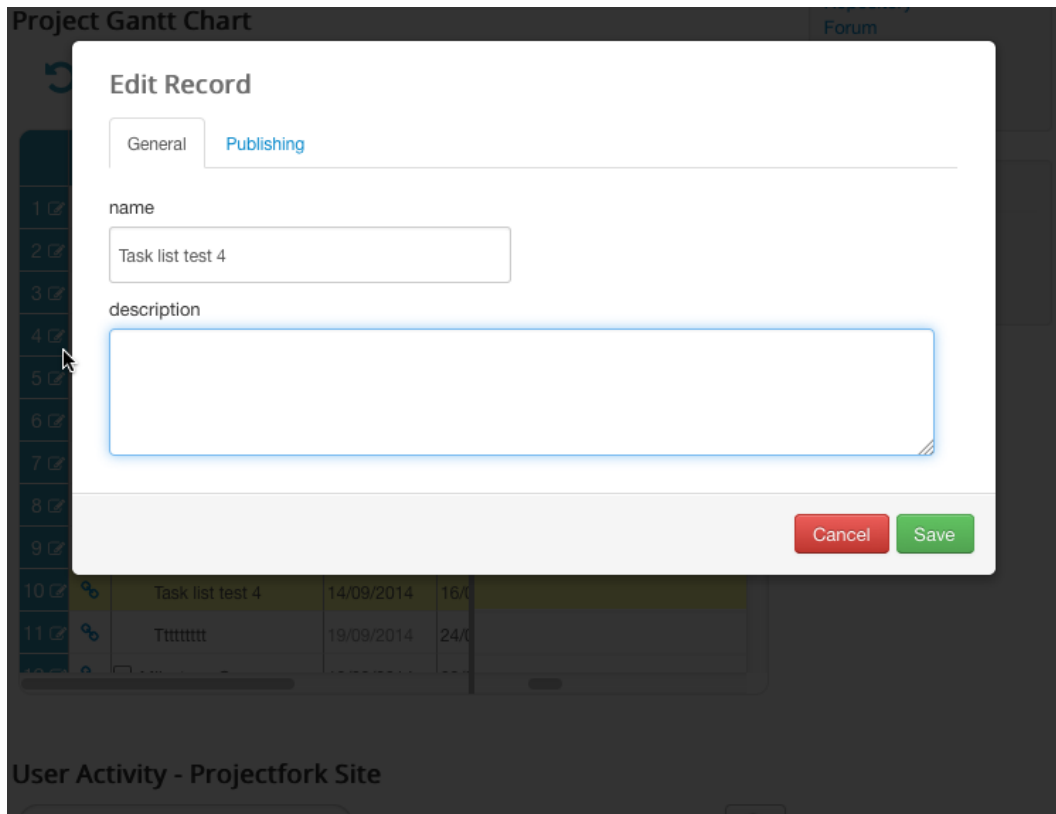


Figure 7 - Modal Task Editor - General Tab

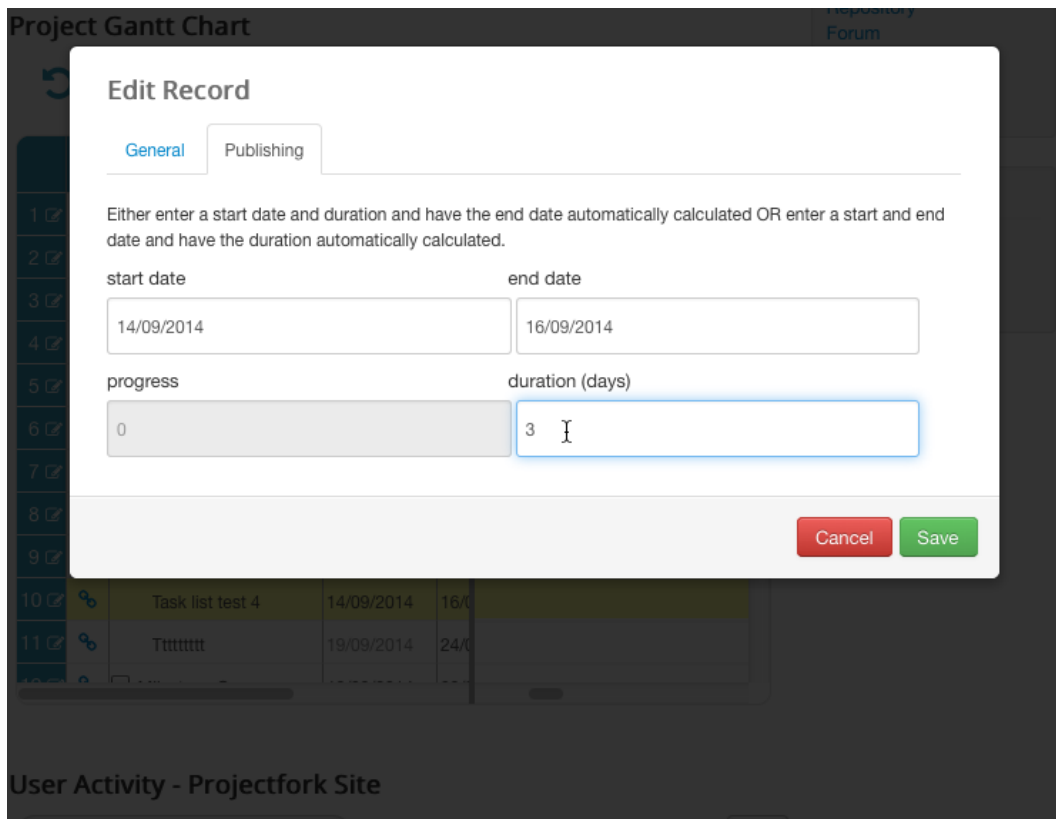


Figure 8 - Modal Task Editor - Publishing Tab

## Task Dependencies

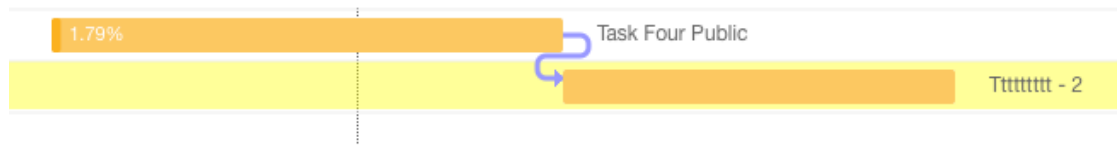
It is important to note that only the 'finish-to-start' dependency type is supported by the Gantt Component.

There are 2 ways to create a task dependency:

- In the Gantt Editor (left side) part of the Gantt Component, click the dependency column of any task item and enter the id of the task for which this task is dependent upon.

6			Task List Six	13/12/2014	16/02/2015	63	
7			Task Four Public	13/12/2014	11/01/2015	27	
8			Tttttttt - 2	12/01/2015	03/02/2015	23	7
9			Task list test	14/09/2014	24/09/2014	11	

In the example above, the item with id = 8 is dependent on item with id = 7. This can be visually represented as follows:

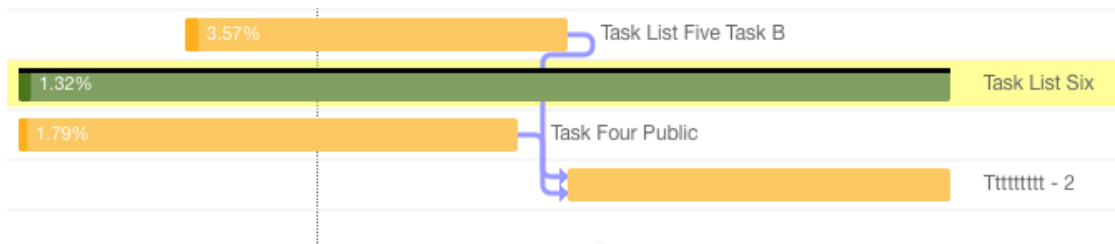


A task can have multiple task dependencies. To enter multiple task dependencies simply separate each id with a comma as shown in the example below.

4			Task Three A	10/12/2014	22/12/2014	13	
5			Task List Five Task B	23/12/2014	14/01/2015	20	
6			Task List Six	13/12/2014	16/02/2015	63	
7			Task Four Public	13/12/2014	11/01/2015	27	
8			Tttttttt - 2	15/01/2015	06/02/2015	23	7,5
9			Task list test	14/09/2014	24/09/2014	11	

The example above can be visually represented as follows:





Furthermore you can specify a lag in days between dependent tasks by using a “:”.

E.g.: 7:4 means that the task will start 4 days after task 7 is completed

	link	name	start	end	dur	dep
1		Test Task One	29/08/2014	06/09/2014	9	
2		Milestone Three	29/08/2014	16/02/2015	169	
3		Task List Five	10/12/2014	14/01/2015	33	
4		Task Three A	10/12/2014	22/12/2014	13	
5		Task List Five Task B	23/12/2014	14/01/2015	20	
6		Task List Six	13/12/2014	11/02/2015	58	
7		Task Four Public	13/12/2014	11/01/2015	27	
8		Tttttttt - 2	17/01/2015	08/02/2015	23	7:5,5:2

In the above example a dependency represented as “7:5,5:2” indicates that the task with id=8 will only start 5 days after task with id=7 is completed and 2 days after task with id=5 is completed

- In the Gantt Chart (right side) of the Gantt Component, hover over any task to reveal the task’s dependency handles and simply drag the handle and drop it on another task.



## Task Progress

The Gantt Component has re-introduced the display of task progress. Task progress is automatically calculated from task timesheet entries and task durations. To ensure the meaningfulness of task progress it is imperative that timesheet entries are proactively entered into your Projectfork projects.

## Support

Priority Support Hours are based on Australian Eastern Standard Time (AEST)) and must be sent to [support@angekdesign.com.au](mailto:support@angekdesign.com.au).

**Monday to Friday: 9am - 5pm:** All support requests responded to within 1 hr.  
**Saturday and Sunday:** All support requests responded to within 24 hrs.

Support requests must be received during our business hours, as indicated above, to guarantee stated response times.

## Roadmap

- introduce the ability to add new tasks, tasklists and milestones directly from within the Gantt Chart.
- introduce the ability to assign users to tasks