



SPI LABORATORY (PTY) LTD

**User Manual for Fabrik Master
Detail example (Joomla 3.2
version)**

Technical Product

Issue: 1

Document Status: Draft

Table of Contents

Table of Contents	ii
Change History	v
Configuration Control	v
Document History	v
Revision History	v
Management Authorisation	v
Change Forecast	v
1 Scope	1
1.1 Introduction	1
1.2 Purpose.....	1
1.3 Audience	1
1.4 Tools environment	2
1.5 Assumptions.....	2
1.6 About the SPI-LAB	2
2 A design perspective of the master – detail exercise.....	3
2.1 Design overview.....	3
2.2 Entity relationship Model.....	4
2.3 Screen mockups.....	5
3 Create the Lists	11
3.1 1. Overview:	11
3.2 2. Activity: Build the Master and Detail list	11
3.3 3. Tasks:	11
3.4 4. Remarks:	16

4 Add Elements to Lists	18
4.1 1. Overview:	18
4.2 2. Activity: Add elements to the Master and Detail lists	18
4.3 3. Tasks:.....	18
4.4 4. Remarks:.....	25
5 Add Data to Lists.....	26
5.1 1. Overview:	26
5.2 2. Activity: Add data to the Master and Detail lists	26
5.3 3. Tasks:.....	26
5.4 4. Remarks:.....	30
6 Join the Master and Detail Lists	31
6.1 1. Overview:	31
6.2 2. Activity: Join the Master and Detail lists.....	31
6.3 3. Tasks:.....	31
6.4 4. Remarks:.....	42
7 Managing the Master and Detail lists display	43
7.1 1. Overview:	43
7.2 2. Activity: Configuring the Master and Detail features	43
7.3 3. Tasks:.....	43
7.4 4. Remarks:.....	56
8 Display the Master and Detail lists on the frontend	57
8.1 1. Overview:	57
8.2 2. Activity: Configuring the frontend display.....	57
8.3 3. Tasks:.....	57
8.4 4. Remarks:.....	70

Change History

Configuration Control

Project:	SPI LABORATORY (PTY) LTD
Title:	User Manual for Fabrik Master Detail example (Joomla 3.2 version)
Doc. Reference:	D:\SPI-LAB\PROJECTS\JFA\DOCUMENTATIONOBJECTS\JM-32\JFL-URM-03.FABRIK-TUTORIAL-MASTER-DETAIL-JM-32.DOC
Created by:	Alastair Walker
Creation Date:	10 December 2013

Document History

Issue	Date	Status	Who	Saved as:
1	2013-12-10	Draft	AJW	JFA-URM-02.doc

Revision History

Issue	Date	Changes
1	2013-12-10	New document created.

Management Authorisation

Issue	Date	Status	Management Board Minute Reference

Change Forecast

1 Scope

1.1 Introduction

Master – details entity relationships are very common in information-rich client server database systems. In accounting systems, this relationship is seen in the client – invoice relationship.

In this tutorial, the master – detail relationship context is that of classes that are attended by students. Student may attend any number of classes.

The basis of this tutorial can be found at
<http://fabrikar.com/help/tutorials/details/3/24>

1.2 Purpose

The tutorial referenced in Section 1.1 was created in the context of Joomla version 3.2, and Fabrik version 3.1 RC2.

This document seeks to present the substance of that video-based tutorial in a step by step fashion, breaking the overall exercise down into a number of activities, and their related tasks.

We have also added an introductory chapter (i.e. Chapter 2) that seeks to present a design overview, comprising use cases, an entity-relationship diagram, and a number of screen mockups.

These additional items can be helpful in gaining an overall perspective regarding what is being attempted in the tutorial.

Unashamedly, this reference manual presents a 'blow by blow' approach in reproducing the original tutorial.

While a video tutorial is very useful in gaining a quick overall view of a tool's capabilities, when it comes to actually digesting the material from a competency building perspective, trying to reproduce the behaviour illustrated in the video is a bit like trying to drink from a fire hydrant – possible – yes – but not very effective.

1.3 Audience

The audience for this document comprises the following stakeholders including:

- Individuals who are trying to evaluate the capabilities of fabric; and
- Individuals are seeking to acquire competency to design Fabrik-based components.

1.4 Tools environment

The following tools were used to create the content contained in this reference manual:

- a. The use cases, and entity-relationship diagramme, presented in Chapter 2 were created using Visual Paradigm for UML (www.visual-paradigm.com/)
- b. The screen mockups were created using MockupScreens (www.mockupscreens.com).
- c. The WAMP environment used for local hosting is Uniform Server, version 8.9.2 (<http://sourceforge.net/projects/miniserver/files/Uniform%20Server/8.9.2-Coral/>)
- d. The version of Joomla! used is 3.2. (See <http://www.joomla.org/download.html>)
- e. The version of Fabrik use is <http://fabrikar.com/download>, look for version 3.1 RC2, (applicable to Joomla! 3.2) and click Download.

1.5 Assumptions

We have not described the steps needed to set up the WAMP (i.e. Uniform) server, or how to install Joomla! or Fabrik.

Instructions to support these installations are freely available on the Web.

1.6 About the SPI-LAB

The SPI Laboratory (Pty) Ltd (www.spilab.co.za), amongst other themes, has a strong focus upon performing software quality assurance activities, with most attention being paid to the early phases of product development e.g. working with the client to develop the product specification, and the later parts of the lifecycle that focus on evaluating the quality of the delivered product.

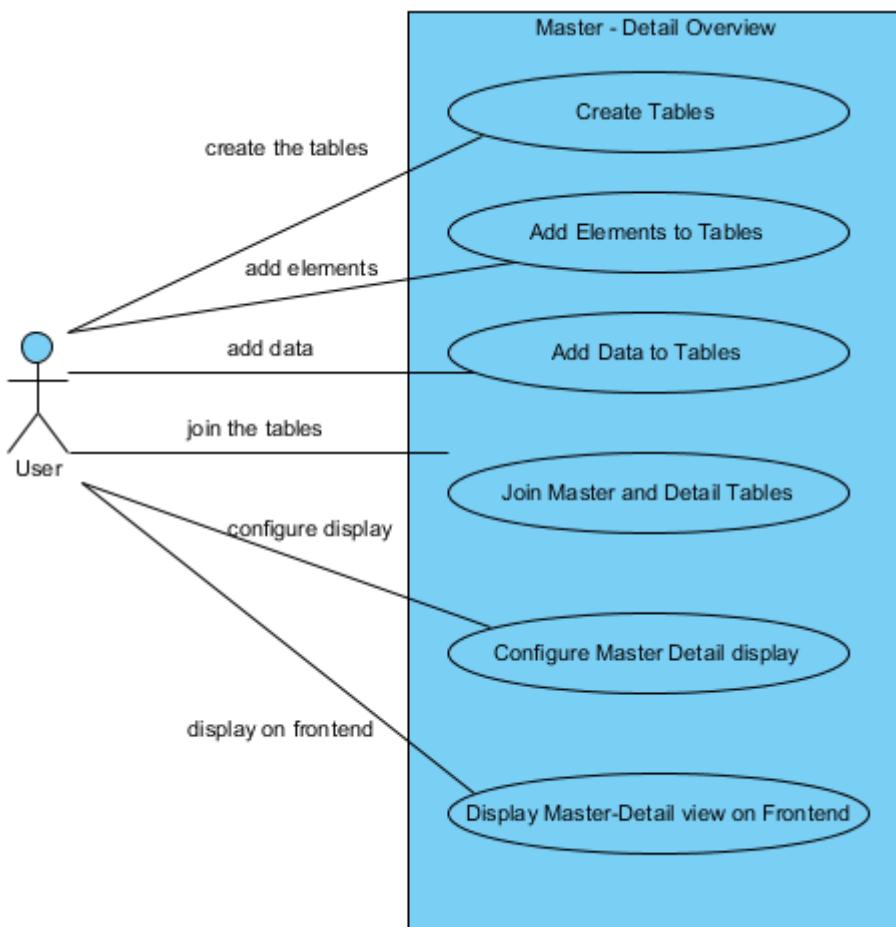
It is in the nature of our work that we spend a great deal of time on product evaluation activities.

This body of work (i.e. the creation of the reference manual) was undertaken as part of a detailed CMS content building technology evaluation exercise.

2 A design perspective of the master – detail exercise

2.1 Design overview

2.1.1 Use cases



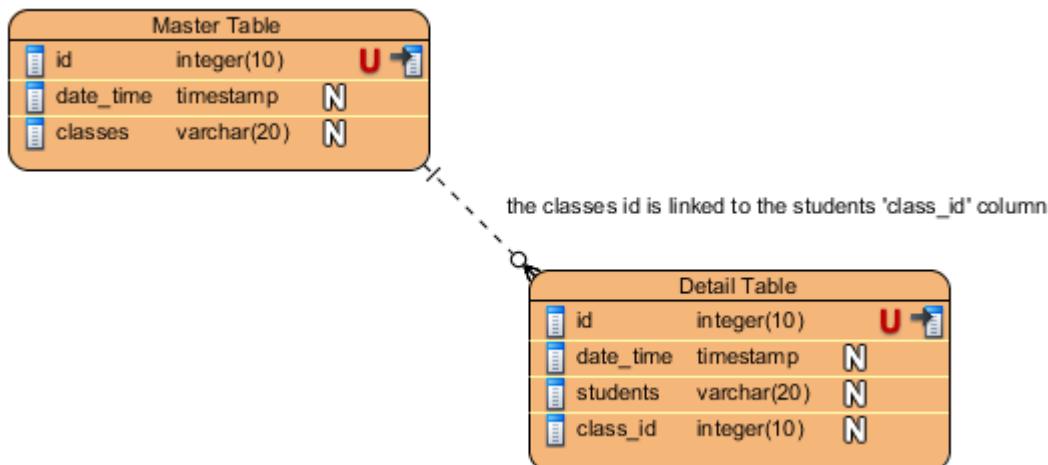
2.1.2 Use case summary

Name	Documentation
User	
Master - Detail Overview	This tutorial presents an overview of the key steps to creating tables that have a master - detail relationship.

Name	Documentation
>Create Tables	This exercise creates the master - details tables. In this exercise the master table is referred to as 'classes', and the detail table is referred to as 'students'.
Add Elements to Tables	This exercise adds elements to the master and detail tables. Elements are synonymous with table columns.
Add Data to Tables	The created tables now have some data (i.e. rows) added to them.
Join Master and Detail Tables	Steps are now taken to join the tables so that the master - detail relationship is created.
Configure Master Detail display	The presentation of the data in the master detail views is now configured.
Display Master-Detail view on Frontend	The master - detail view is now configured to be visible on the frontend.

2.2 Entity relationship Model

2.2.1 Master Detail



2.2.2 Summary

Name	Documentation

Name	Documentation
 Master Table	This table holds the various class values (Geography, Maths etc)
 Detail Table	This table holds the values that define the students (e.g. Fred Smith, Anne Other).

2.3 Screen mockups

2.3.1 Backend: Classes View

Backend: Master View X

This view shows the elements of the detail table linked to the master table.

[Add](#)

Geography

Abel Elle
Fred Smith
Joe Doe

Maths

Rob Another

Display Number ▾

5
10

[Delete](#)

2.3.2 Backend: Students View

Backend: Detail View X

[Add](#)

Date	Student	Class	Select
2013-12-06	Fred Smith	Geography	<input type="checkbox"/>
2013-12-06	Joe Doe	Geography	<input type="checkbox"/>
2013-12-06	Abe Elle	Geography	<input type="checkbox"/>
2013-12-07	Rober Another	Maths	<input type="checkbox"/>

Display Number ▾

5
10

[Delete](#)

2.3.3 Front end: Classes View

Frontend: Master View X

This view shows the elements of the detail table linked to the master table, from the front end.

[Add](#)

Geography

Students	Select
Abel Elle	<input type="checkbox"/>
Fred Smith	<input type="checkbox"/>
Joe Doe	<input type="checkbox"/>

Maths

Students	Select
Rob Another	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>

Display Number ▾

5
10

[Delete](#)

2.3.4 Front end: Students View

Frontend: Detail View X

Add

Date	Student	Class
2013-12-06	Fred Smith	Geography
2013-12-06	Joe Doe	Geography
2013-12-06	Abe Elle	Geography
2013-12-07	Rober Another	Maths

Display Number ▼

5
10

2.3.5 Frontend: Master View: Form

Frontend: Master View: Form X

Classes

Classes

Label:

Students

Name:

2.3.6 Front end: Detail View: Form

Frontend: Detail View: Form X

Students

Students

Label:

Class: ▼

Geography
Maths

3 Create the Lists

Access path: Fabrik → Lists → New

3.1 1. Overview:

This function provides the means for creating a new list, which will be called the Classes list.

3.2 2. Activity: Build the Master and Detail list

The activity focuses upon creating the master and detail lists.

The master list is called 'classes'.

The detail list is called 'students'.

3.3 3. Tasks:

3.3.1 3.1 Create the master list

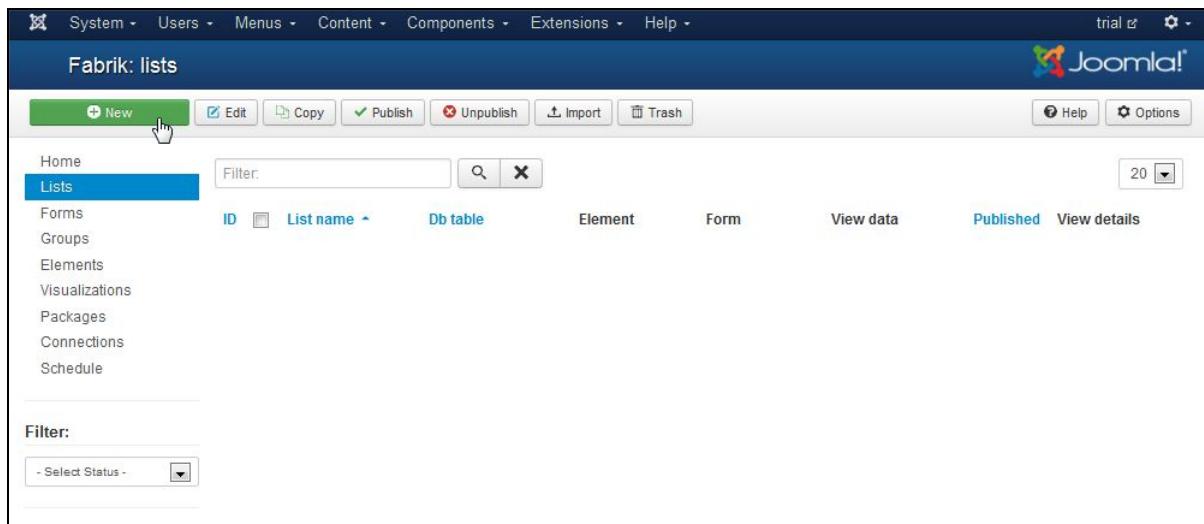


Figure 1 Create a new list

3.3.2 3.2 Capture items under Details, and Publish

Figure 2 Enter Details and Publish

Under Details, enter the Label (i.e. Classes), under Introduction enter 'Classes contain students'.

Under Publishing Tab, select 'Yes' for Published. Click 'Save'.

3.3.3 3.3 Set the Access details

Select the Access Tab.

Figure 3 Set the Access details

Change the default setting of Delete Records, from 'Registered' to 'Public'.

3.3.4 3.4 Set the Data details

Select the Data Tab.

The screenshot shows the Joomla! Fabrik interface for creating a new list. The 'Data' tab is active. The 'Table name' field contains 'demo_classes'. Other settings include 'Connection' set to 'site database', 'Primary key' as a dropdown menu, 'Auto increment' set to 'Yes', and 'Order by' as a dropdown menu. Action buttons at the top include 'Save', 'Save & Close' (highlighted with a cursor), 'Save & New', and 'Cancel'.

Figure 4 Assign Data details

In the Create New List field, enter 'demo_classes', as the list name.

Then click 'Save and Close'!

3.3.5 3.5 Create the detail list

Access path: Fabrik → Lists → New

ID	List name	Db table	Element	Form	View data	Published	View details
1	Classes	demo_classes	Add	Edit	View data	<input checked="" type="checkbox"/>	View details

Figure 5 Create a new list

3.3.6 3.6 Capture items under Details, and Publish

Figure 6 Enter Details and Publish

Under Details, enter the Label (i.e. Students), under Introduction enter 'Students belong in classes'.

Under Publishing, select 'Yes' for Published.

3.3.7 3.7 Set the Access details

Select the Access Tab.

The screenshot shows the Joomla! Fabrik 'new list' configuration screen. The 'Access' tab is selected. A warning message at the top says 'Select a database table or enter a new database table name'. Below the tabs, there are five dropdown menus for different access levels: 'View list' (Public), 'View records' (Public), 'Edit records' (Public), 'or use field' (-), and 'Delete records' (with a dropdown menu open showing 'Public', 'Guest', 'Public' (selected), 'Super Users', 'Registered', and 'Special').

Figure 7 Set the Access details

Change the default setting of Delete Records, from 'Registered' to 'Public'.

3.3.8 3.8 Set the Data details, and Save

Select the Data Tab.

Warning
Select a database table or enter a new database table name

Data **Group by** **Pre-filter** **Joins** **Related data**

Details

Data Connection * site database

Publishing Table name demo_students

Plug-ins

Access Or

Database table

Primary key

Auto increment No Yes

Order by

Figure 8 Assign Data details

In the Create New List field, enter 'demo_students', as the list name.

Then click 'Save and Close'. The following display will then appear.

Message
Item successfully saved.

Home	Filter:	ID	List name	Db table	Element	Form	View data	Published	View details
Forms		1	Classes	demo_classes	Add	Edit	View data	<input checked="" type="checkbox"/>	View details
Groups		2	Students	demo_students	Add	Edit	View data	<input checked="" type="checkbox"/>	View details

Filter:

- Select Status -

Figure 9 The created lists

3.4 4. Remarks:

This series of tasks completes the creation of the lists.

The next step is to add some elements to each list.

4 Add Elements to Lists

Access path: Fabrik → Elements → New

4.1 1. Overview:

This function provides the means for adding elements to lists.

4.2 2. Activity: Add elements to the Master and Detail lists

The activity focuses upon creating elements that will be added to the master and detail lists.

Elements will be added first to the 'classes' list. Elements will then be added to the 'students' list.

4.3 3. Tasks:

4.3.1 3.1 Select the Elements function

Click on the Elements Tab. The following view will appear.

ID	Name	Label	Full Element Name	Group	Plugin	Show in List	Published
1	id	id	demo_classes_id	Classes	internalid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	id	id	demo_students_id	Students	internalid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	date_time	date time	demo_classes_date_time	Classes	date	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	date_time	date time	demo_students_date_time	Students	date	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Figure 10 The Elements view

4.3.2 3.2 Select the 'classes' view on the Form menu

The screenshot shows the Joomla! Admin Panel with the 'Fabrik: elements' component selected. The 'Elements' tab is active. In the 'Filter:' dropdown, 'Classes' is highlighted. The main table lists four elements: 'id' (demo_classes_id), 'id' (demo_students_id), 'date_time' (demo_classes_date_time), and 'date_time' (demo_students_date_time). Each row includes columns for ID, Name, Label, Full Element Name, Group, Plugin, Show in List, and Published.

ID	Name	Label	Full Element Name	Group	Plugin	Show in List	Published
1	id	id	demo_classes_id	Classes	internalid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	id	id	demo_students_id	Students	internalid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	date_time	date time	demo_classes_date_time	Classes	date	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	date_time	date time	demo_students_date_time	Students	date	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Figure 11 Select Forms -> Classes

We want to filter to view to restrict the display to elements associated with the 'classes' list. This can be achieved by selecting either 'classes' from either the Forms or the Group dropdown menu's. The following view will be displayed.

This screenshot shows the same Joomla! Admin Panel as Figure 11, but with a different filter applied. The 'Filter:' dropdown now shows 'Classes' selected. The table content remains the same as in Figure 11.

ID	Name	Label	Full Element Name	Group	Plugin	Show in List	Published
1	id	id	demo_classes_id	Classes	internalid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	date_time	date time	demo_classes_date_time	Classes	date	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Figure 12 Elements filtered by Form selection

Now select 'New', as shown in the figure below.

ID	Name	Label	Full Element Name	Group	Plugin	Show in List	Published
1	id	id	demo_classes__id	Classes	internalid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	date_time	date time	demo_classes__date_time	Classes	date	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Figure 13 Create a new element

4.3.3 3.3 'Classes' list: Create element 'label'

Capture the following details for this element:

- a) Details: For Name enter 'label'
- b) Details: For label enter 'label'
- c) Details: Under Group, select 'Classes'
- d) Under Element type: Select 'field'
- e) Under Options: Advanced Tab: Maximum Length: Enter text '20'

Name *	label	Id	0
Label	label	Group *	Classes
Plug-in *	field	Order	New elements will appear at the bottom of the list.
Renders an Input Field			
<input checked="" type="radio"/> Options <input type="radio"/> Advanced <input type="radio"/> Formatting <input type="radio"/> Guess link			
Placeholder: <input type="text"/> Input type: <input type="radio"/> Text <input type="radio"/> Number Max length: <input type="text" value="20"/>			

Figure 14 Capture the details for the 'label' element

4.3.4 3.4 List Setting

Select the List View Setting sidebar Tab.

a) Show in List: Select the 'Yes' option.

The screenshot shows the Joomla! Admin Panel with the 'Fabrik: edit element' interface. The 'List view settings' tab is active. Under 'Show in list', the 'Yes' button is selected. Other settings include 'Link to details' (No), 'Allow ordering' (No), 'Heading label' (empty), 'Custom link' (empty), 'Custom link in details' (Yes), 'Use as row class' (No), and 'Include in list query' (Yes). Buttons for 'Save & Close' and 'Save & New' are visible at the top.

Figure 15 List settings selections

Then click 'Save and Close'!

The screenshot shows the Joomla! Admin Panel with the 'Fabrik: elements' interface. A message 'Item successfully saved.' is displayed. The 'Elements' table lists three items: 'id' (ID 1), 'date_time' (ID 2), and 'label' (ID 5). The 'label' item has its 'Show in List' and 'Published' checkboxes checked. The left sidebar shows navigation links for Home, Lists, Forms, Groups, Elements, Visualizations, Packages, Connections, and Schedule. Filter and search tools are also present.

Figure 16 Elements view - 'label' added

4.3.5 3.5 Add elements for the 'students' list

In the Form dropdown, select 'students'. The elements for the 'students' view will be displayed.

The screenshot shows the Joomla! Admin Panel with the Fabrik extension installed. The 'Elements' tab is selected in the left sidebar. The main area displays a list of elements with columns: ID, Name, Label, Full Element Name, Group, Plugin, Show in List, and Published. Two elements are listed: one named 'id' and another named 'date_time'. Both are associated with the 'Students' group and the 'internalid' plugin. The 'Show in List' and 'Published' checkboxes are checked for both. In the bottom-left corner of the list area, there is a dropdown menu labeled 'Plugin' with 'Students' selected. Other options in the dropdown include '- Select form -' and 'Classes'.

ID	Name	Label	Full Element Name	Group	Plugin	Show in List	Published
3	id	id	demo_students__id	Students	internalid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	date_time	date time	demo_students__date_time	Students	date	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Figure 17 Elements initially associated with 'students'

4.3.6 3.6 Add elements to the 'students' list

- a) Add the 'name' element.
- b) List view settings: Show in List: Set the option to 'Yes.'

Click 'Save and Close'.

Figure 18 Add the 'name' element and Save.

- b) Details: Name: Enter 'class_id' element.
- c) Details: Label: Enter 'Class'.
- d) Details: Element type, select 'database join'.
- e) Options: Data: List: Select 'demo_classes'
- f) Options: Data: Value: Select 'id' from the dropdown list.
- g) Options: Data: Label: Select 'label' from the dropdown list.

Click 'Save and Close'.

System Users Menus Content Components Extensions Help

Save Save & Close Save & New Cancel Help

Class

JavaScript Label Class

Plug-in * databasejoin

Id 0

Group * Students

Order New elements will appear at the end

Drop down or radio lists containing data looked up in another table

Options Data Default Add option in front end Advanced Help

Render as Drop-down

Connection site database

Table demo_classes

Value id [Recommended]

Label label

Or Concat label

Figure 19 Add element 'class_id'

- h) Select the 'List Settings' Tab (on the left).
i) Show in list: Select the 'Yes' command button.

Fabrik: edit element Joomla!

Save Save & Close Save & New Save as Copy Close Help

Details Publishing Access List view settings Validations JavaScript

List view settings Icons Filters CSS Calculations

Show in list Yes

Link to details Yes

Allow ordering Yes

Heading label

Custom link

Custom link in details Yes

Use as row class Yes

Include in list query Yes

Always Render Yes

Figure 20 Save element settings

After the 'Save and Close' button has been clicked, the following view will be displayed.

ID	Name	Label	Full Element Name	Group	Plugin	Show in List	Published
3	id	id	demo_students__id	Students	internalid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	date_time	date time	demo_students__date_time	Students	date	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	name	name	demo_students__name	Students	field	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7	class_id	Class	demo_students__class_id	Students	databasejoin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Figure 21 Elements added to the 'students' list

4.4 4. Remarks:

This series of tasks completes the creation of the new elements associated with the 'classes' and 'students' lists.

The next step is to add some data to each list.

5 Add Data to Lists

Access path: Fabrik → Lists → View Data

5.1 1. Overview:

This function provides the means for adding data to lists.

5.2 2. Activity: Add data to the Master and Detail lists

The activity focuses upon adding data to the master and detail lists.

Data will be added first to the 'classes' list. Data will then be added to the 'students' list.

5.3 3. Tasks:

5.3.1 3.1 Select the Lists function

Click on the Lists Tab. The following view will appear.

ID	List name	Db table	Element	Form	View data	Published	View details
1	Classes	demo_classes	+ Add	<input checked="" type="checkbox"/> Edit	View data	<input checked="" type="checkbox"/>	View details
2	Students	demo_students	+ Add	<input checked="" type="checkbox"/> Edit	View data	<input checked="" type="checkbox"/>	View details

Figure 22 The Lists view

5.3.2 3.2 Click on View data for the 'classes' List

After clicking on View data for the 'classes' list, the figure below will be viewed.

The screenshot shows the Joomla! administrator interface with the 'Fabrik: lists' component selected. The title bar includes the Joomla! logo and the word 'Joomla!'. The main content area is titled 'Classes' and contains a message stating 'Classes contain students'. Below this are several buttons: 'Add' (highlighted with a cursor), 'Group by', 'CSV', and 'Empty'. A table header row shows columns for 'id', 'date time', and 'label'. A message 'No records' is displayed below the table. At the bottom left is a 'Display #' dropdown set to 10.

Figure 23 The list view – select 'Add'

Click on 'Add'.

5.3.3 3.3 'Classes' List: Add data content

For the 'label' field, enter the value 'Geography'.

Click 'Save'.

The screenshot shows the Joomla! administrator interface with the 'Fabrik: forms' component selected. The title bar includes the Joomla! logo and the word 'Joomla!'. The main content area is titled 'Classes' and contains a message 'Classes'. Below this is a form with a single input field labeled 'label' containing the value 'Geography'. At the bottom left of the form is a blue 'Save' button, which is highlighted with a cursor.

Figure 24 Add data content to a row in the 'Classes' List

5.3.4 3.4 'Students' List Add data content

Select the Lists Tab.

ID	List name	Db table	Element	Form	View data	Published	View details
1	Classes	demo_classes	+ Add	<input checked="" type="checkbox"/> Edit	<input type="checkbox"/> View data	<input checked="" type="checkbox"/>	View details
2	Students	demo_students	+ Add	<input checked="" type="checkbox"/> Edit	<input type="checkbox"/> View data	<input checked="" type="checkbox"/>	View details

Figure 25 List View

For the 'students' row, click on 'View data'.

id	date time	name	Class	
No records				

Figure 26 'Students' List – Add a row

Click 'Add'.

The screenshot shows the Joomla! administrator interface with the 'Fabrik: forms' extension installed. The page title is 'Students'. There are two form fields: 'name' with the value 'Fred Smith' and 'Class' with a dropdown menu showing 'Please select' and 'Geography' (which is currently selected). A blue 'Save' button is at the bottom left.

Figure 27 Add data values to fields

In the Name field, type in 'Fred Smith',

From the Class dropdown selection, select 'Geography'.

Click 'Save'. The following view will be displayed.

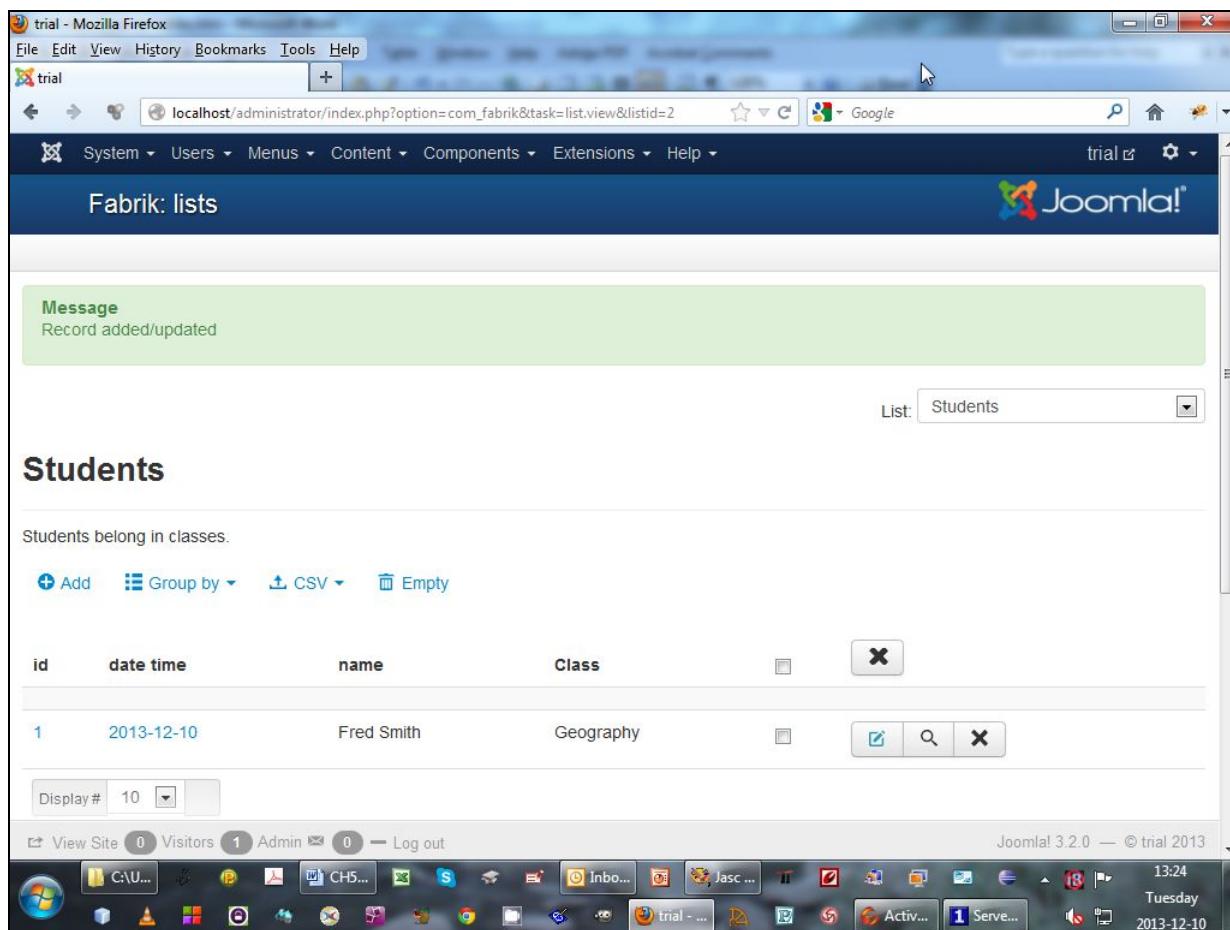


Figure 28 Row added to 'Students' List

5.4 4. Remarks:

This series of tasks completes the addition of individual rows of data to each list.

The next step is to join the master list to the detail list, i.e. the 'classes' list to the 'students' list.

6 Join the Master and Detail Lists

Access path: Fabrik → Lists → Select 'Classes'

6.1 1. Overview:

This function provides the means for joining two lists, in this instance a parent list (i.e. master list) to a child list (i.e. the detail list).

6.2 2. Activity: Join the Master and Detail lists

The activity focuses upon joining the master and detail lists.

6.3 3. Tasks:

6.3.1 3.1 Select the Lists function

Click on the Lists Tab. The following view will appear.

ID	List name	Db table	Element	Form	View data	Published	View details
1	Classes	demo_classes	Add	Edit	View data	✓	View details
2	Students	demo_students	Add	Edit	View data	✓	View details

Figure 29 Select the 'Classes' list

6.3.2 3.2 Click on 'Classes'

After clicking on the 'classes' link, the figure below will be presented.

The screenshot shows the Joomla! Fabrik 'edit list' interface. At the top, there are several buttons: 'Save' (green), 'Save & Close' (green), 'Save & New' (green), 'Save as Copy' (light blue), and 'Close' (red). Below these are tabs: 'Text', 'Filters', 'Navigation', 'Layout', 'Links', 'Notes', and 'Advanced'. A sidebar on the left has tabs for 'Details', 'Data' (which is selected and highlighted in blue), 'Publishing', 'Plug-ins', and 'Access'. The main content area shows an 'ID' field with '1', a 'Label *' field with 'Classes', and a large text area with a WYSIWYG editor containing the text 'Classes contain students'.

Figure 30 Select the Data view

Click on the 'Data' Tab.

6.3.3 3.3 'Classes' List: Data View: Joins Tab: Add a join

To create a list join (between the master list and the detail list), click on the 'Add' function, in the Joins group box.

The screenshot shows the Joomla! Fabrik 'edit list' interface with the 'Joins' tab selected. At the top, there are buttons: 'Save' (green), 'Save & Close' (green), 'Save & New' (green), 'Save as Copy' (light blue), and 'Close' (red). Below these are tabs: 'Data', 'Group by', 'Pre-filter', 'Joins' (which is selected and highlighted in blue), and 'Related data'. A sidebar on the left has tabs for 'Details', 'Data' (selected), 'Publishing', 'Plug-ins', and 'Access'. The main content area shows a 'Joins' section with a 'Display mode' dropdown set to 'Each row separately' and a 'Delete joined data' button with 'No' and 'Yes' options. A cursor is hovering over the 'Add' button in the 'Joins' group box.

Figure 31 Click 'Add' in the Joins group box

6.3.4 3.4 Define the Join parameters

Set the values as follows:

- a) Join type: 'left join'
- b) From: 'demo_classes'
- c) To: 'demo_students'
- d) From column: 'id' (i.e. this is the primary key in the 'classes' list).
- e) To column: From the dropdown list, select the 'class_id' item.

Joins							
id	Join type	From	To	From column	To column	Repeatable	
2	LEFT	demo_cl	demo_s	id	class_id	<input type="radio"/> Yes <input checked="" type="radio"/> No	

Figure 32 Capture the join details

Click 'Save and Close'.

6.3.5 3.5 New defined group 'classes – [demo_students]'

Click on the Groups Tab. The following view will be displayed. A new group has been created (i.e. classes – [demo_students]).

ID	Name	Label	Form	Elements	Published
1	Classes	Classes	Classes	+ Add	<input checked="" type="checkbox"/>
3	Classes- [demo_students]	demo_students	Classes	+ Add	<input checked="" type="checkbox"/>
2	Students	Students	Students	+ Add	<input checked="" type="checkbox"/>

Figure 33 Click on Groups

Click on the Lists Tab, and click on 'View Data'.

ID	List name	Db table	Element	Form	View data	Published	View details
1	Classes	demo_classes	+ Add	<input checked="" type="checkbox"/> Edit	View data	<input checked="" type="checkbox"/>	View details
2	Students	demo_students	+ Add	<input checked="" type="checkbox"/> Edit	View data	<input checked="" type="checkbox"/>	View details

Figure 34 Select Lists Tab, click on View Data.

The following view will be displayed.

id	date time	label	id	date time	name	Class	<input type="button" value=""/>	<input type="button" value="X"/>
1	2013-12-10	Geography	1	2013-12-10	Fred Smith	Geography	<input type="button" value=""/>	<input checked="" type="button" value=""/> <input type="button" value="X"/>

Figure 35 Master and detail lists elements joined

To view the Form, click on the Id of the Classes List, as in the figure below.

id	date time	label	id	date time	name	Class	<input type="button" value=""/>	<input type="button" value="X"/>
1	2013-12-10	Geography	1	2013-12-10	Fred Smith	Geography	<input type="button" value=""/>	<input checked="" type="button" value=""/> <input type="button" value="X"/>

Figure 36 To view the form that displays the joined fields

The screenshot shows the Joomla! administrator interface for the 'Fabrik: forms' component. The top navigation bar includes links for System, Users, Menus, Content, Components, Extensions, and Help. The right side of the header features the Joomla! logo and a gear icon. The main content area is titled 'Classes'. Below it, there's a section for 'demo_students' with fields for 'name' (Fred Smith) and 'Class' (Geography). A 'label' field above the class dropdown is set to 'Geography'. At the bottom of the form is a blue 'Save' button.

Figure 37 Form with joined lists

6.3.6 3.6 To add 'Repeat Group' buttons to the form

Click on the Groups Tab. The following view will be displayed. Select the group (i.e. classes – [demo_students]).

The screenshot shows the Joomla! administrator interface for the 'Fabrik: groups' component. The top navigation bar includes links for System, Users, Menus, Content, Components, Extensions, and Help. The right side of the header features the Joomla! logo and a gear icon. The left sidebar has a 'Groups' tab selected. The main content area displays a table of groups:

ID	Name	Label	Form	Elements	Published
1	Classes	Classes	Classes	+ Add	<input checked="" type="checkbox"/>
3	Classes-[demo_students]	demo_students	Classes	+ Add	<input checked="" type="checkbox"/>
2	Students	Students	Students	+ Add	<input checked="" type="checkbox"/>

Below the table, there are filter options for Status and Form.

Figure 38 To add 'Group buttons', click on 'Classes –[demo_students]'

- Repeat: Repeatable: Select the 'Yes' command button.

The screenshot shows the Joomla! admin interface with the title 'Fabrik: edit group'. The 'Repeat' tab is active. Configuration settings include:

- Repeatable:** Yes (selected)
- Template:** list
- Repeat max:** (empty input field)
- Repeat min:** (empty input field)
- Add access:** Public
- Delete access:** Public
- or use field:** -
- Copy values:** No (selected)

Figure 39 Configure the group button settings

Click 'Save and Close'. The view in Figure 37 is now displayed as:

The screenshot shows the Joomla! admin interface with the title 'Fabrik: forms'. A form titled 'Classes' is displayed with the following fields:

- label:** Geography
- name:** Fred Smith
- Class:** Geography

On the right side of the form, there are green '+' and red '-' buttons for managing group items.

Figure 40 The form with Group Buttons displayed

6.3.7 3.7 Add a new student to the group

Now select the Add button, and click it.

The screenshot shows the Joomla! administrator interface with the 'Fabrik: forms' menu selected. Under the 'Content' section, 'Classes' is chosen. A new entry 'demo_students' is being created. The 'label' field is set to 'Geography'. The 'name' field contains 'Fred Smith'. The 'Class' dropdown menu is open, showing 'Geography' as the selected option. At the bottom left is a blue 'Save' button.

Figure 41 Add a new student

A new row is added. Add 'Joe Doe' to the name field, and select 'Geography' for the class field.

The screenshot shows the same Joomla! administrator interface after saving the new student. The 'name' field now contains 'Joe Doe'. The 'Class' dropdown menu is open, showing 'Please select' at the top and 'Geography' highlighted with a blue selection bar. The 'Save' button is visible at the bottom left.

Figure 42 New student added - capture the details

Click 'Save'.

6.3.8 3.8 Unlink the detail list 'class' from the master list

With reference to Figure 42, it is inconvenient to display the class for each student in a given group. The way to treat this is as follows.

Select Elements, and click on the 'class_id' element.

ID	Name	Label	Full Element Name	Group	Plugin	Show in List	Published
3	id	id	demo_students__id	Students	internalid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	date_time	date time	demo_students__date_time	Students	date	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	name	name	demo_students__name	Students	field	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7	class_id	Class	demo_students__class_id	Students	databasejoin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Figure 43 Click on 'class_id' element

- Element properties linked to:
- Class
- Unlink

Figure 44 Prepare to unlink the 'class_id' element from the parent

Click on 'unlink'. Under Options, click 'Hidden' to set it to 'Yes'.

Click 'Save and Close'. (You may be asked for a confirmation – click 'Save and Close; again').

The screenshot shows the Joomla! back-end interface for managing a 'Class' element. The top navigation bar includes 'System', 'Users', 'Menus', 'Content', 'Components', 'Extensions', and 'Help'. Below the navigation is a toolbar with buttons for 'Save', 'Save & Close', 'Save & New', 'Save as Copy', and 'Close'. A message at the top states: 'Element properties linked to: Class' with a checked 'Unlink' checkbox.

Details tab selected. Form fields include:

- Name ***: class_id
- Label**: Class
- Plug-in ***: databasejoin
- Id**: 11
- Group ***: Classes- [demo students]
- Order**: 3. class_id

A note below says: "Drop down or radio lists containing data looked up in another table". Below the form are tabs: Options, Data, Default, Add option in front end, Advanced, and Help.

Eval default has options No (selected) and Yes.

Default has a dropdown menu with the value '1'.

Hidden has options No (selected) and Yes.

Figure 45 Hide the element

Redisplay Figure 42. It will now appear as follows.

The screenshot shows the Joomla! back-end interface for the 'Classes' list view. The top navigation bar includes 'System', 'Users', 'Menus', 'Content', 'Components', 'Extensions', and 'Help'. The title bar says 'Fabrik: forms' and 'Joomla!'.

Classes section header.

label	name
Geography	Fred Smith
demo_students	Joe Doe

At the bottom is a 'Save' button.

Figure 46 The class label is now hidden in the students view.

Click on 'Add'.

The screenshot shows the Joomla! admin interface with the 'Fabrik: forms' extension. The top navigation bar includes links for System, Users, Menus, Content, Components, Extensions, and Help. The main content area is titled 'Classes' and shows a table with one row. The first column is 'label' (containing 'Geography') and the second column is 'demo_students'. Under 'demo_students', there are two rows: one with 'name' 'Fred Smith' and another with 'name' 'Joe Doe'. To the right of the rows are green and red circular icons with '+' and '-' symbols, and a 'Save' button at the bottom left.

Figure 47 Add new detail record

A new row will be added. Add a new name to the row.

The screenshot shows the same Joomla! admin interface as Figure 47, but with a cursor icon pointing directly at the 'Save' button at the bottom left of the form. The rest of the interface and data entries remain the same.

Figure 48 New row added to detail list

Click 'Save'.

The screenshot shows the Joomla! administrator interface with the 'Fabrik: lists' menu selected. A green message bar at the top left says 'Message Record added/updated'. On the right, the Joomla! logo is visible. Below the header, there's a toolbar with buttons for 'List' (set to 'Classes'), 'CSV', 'Empty', 'Group by', 'Add', and 'CSV'. The main area is titled 'Classes' and contains a table with three rows of data. The columns are labeled 'id', 'date time', 'label', 'id', 'date time', 'name', and 'Class'. The first row has values: id 1, date time 2013-12-10, label Geography, id 1, date time 2013-12-10, name Fred Smith, Class Geography. The second row has values: id 1, date time 2013-12-10, label Geography, id 2, date time 2013-12-10, name Joe Doe, Class Geography. The third row has values: id 1, date time 2013-12-10, label Geography, id 3, date time 2013-12-10, name Abe Elle, Class Geography. Each row has a delete button ('X') and a secondary row with edit ('E'), search ('S'), and delete ('X') buttons. At the bottom left, there's a 'Display #' dropdown set to 10.

id	date time	label	id	date time	name	Class		X
1	2013-12-10	Geography	1	2013-12-10	Fred Smith	Geography	<input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="button" value="S"/> <input type="button" value="X"/>
1	2013-12-10	Geography	2	2013-12-10	Joe Doe	Geography	<input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="button" value="S"/> <input type="button" value="X"/>
1	2013-12-10	Geography	3	2013-12-10	Abe Elle	Geography	<input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="button" value="S"/> <input type="button" value="X"/>

Figure 49 The composite master - detail view

6.4 4. Remarks:

This series of tasks completes the addition of individual rows of data to each list.

The next step is to join the master list to the detail list, i.e. the 'classes' list to the 'students' list.

7 Managing the Master and Detail lists display

7.1 1. Overview:

Various methods are described for managing the display of the joined master – detail lists.

7.2 2. Activity: Configuring the Master and Detail features

The activity focuses upon the methods for managing the master and detail list displays.

7.3 3. Tasks:

7.3.1 3.1 Ordering rows in the master list view

Access path: Fabrik → Lists → 'Classes' → Select 'View Data'

id	date time	label	id	date time	name	Class		
1	2013-12-10	Geography	1	2013-12-10	Fred Smith	Geography	<input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
1	2013-12-10	Geography	2	2013-12-10	Joe Doe	Geography	<input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
1	2013-12-10	Geography	3	2013-12-10	Abe Elle	Geography	<input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Figure 50 The composite master - detail view

There is a lot of duplicated data in this list view. We will apply 'grouping' to the classes list. Grouping is often used in conjunction with joins – it splits the list into groups of lists, grouped by a given value. Here we will group by each class.

Access path: Fabrik → Lists → Select 'Classes' → Select Data Tab.

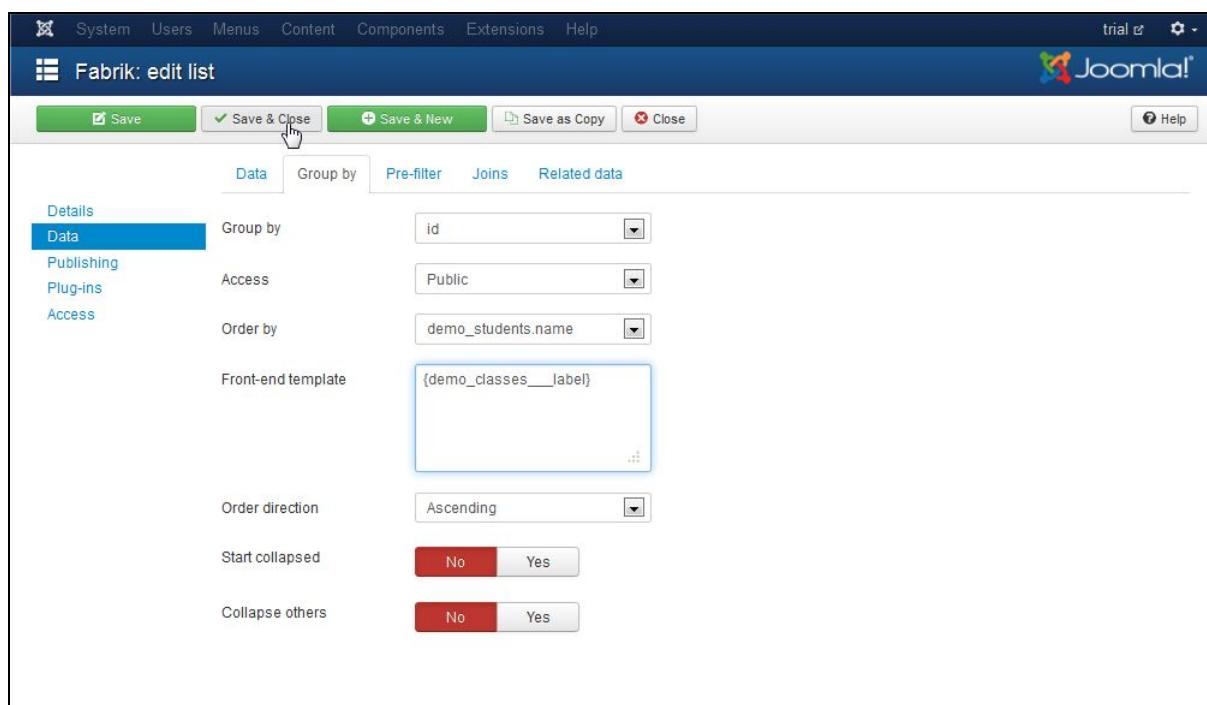


Figure 51 Modify the Group By configuration

- Group by: Group by: Select 'id' – pertaining to the classes id.
- Group by: Order by: Select 'demo_students.name'.
- Group by: Template: Add '{demo_classes__label}'

Click 'Save and Close'.

Access path: Fabrik → Lists → Select 'Classes' → Select 'View data'. The rows will be re-ordered, as in the following figure.

Note that the label 'Geography' appears at the top of the list.

Classes

Classes contain students

Add Group by CSV Empty

id	date time	label	id	date time	name	Class	Actions
1	2013-12-10	Geography	3	2013-12-10	Abe Elle	Geography	
1	2013-12-10	Geography	1	2013-12-10	Fred Smith	Geography	
1	2013-12-10	Geography	2	2013-12-10	Joe Doe	Geography	

Display # 10

Figure 52 Master - detail view - re-ordered rows

7.3.2 3.2 Removing redundant data from the master list view

Access path: Fabrik → Elements → Groups - Select 'classes-[demo_students]'

ID	Name	Label	Full Element Name	Group	Plugin	Show in List	Published
8	id	id	demo_students__id	Classes-[demo_students]	internalid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9	date_time	date time	demo_students__date_time	Classes-[demo_students]	date	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10	name	name	demo_students__name	Classes-[demo_students]	field	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
11	class_id	Class	demo_students__class_id	Classes-[demo_students]	databasejoin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Filter:

20

Home Lists Forms Groups **Elements** Visualizations Packages Connections Schedule

- Plugin -

Classes-[demo_students] Classes Students

Figure 53 The elements – classes-[demo_students] view

Select the columns to be hidden, as shown in the figure below.

ID	Name	Label	Full Element Name	Group	Plugin	Show in List	Published
8	<input type="checkbox"/> id	id	demo_students__id	Classes-[demo_students]	internalid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9	<input type="checkbox"/> date_time	date time	demo_students__date_time	Classes-[demo_students]	date	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10	<input type="checkbox"/> name	name	demo_students__name	Classes-[demo_students]	field	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
11	<input type="checkbox"/> class_id	Class	demo_students__class_id	Classes-[demo_students]	databasejoin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Figure 54 Removing elements from the list view

Click on the 'Remove from list view' Tab. The list view will be updated, as shown in the figure below.

ID	Name	Label	Full Element Name	Group	Plugin	Show in List	Published
8	<input type="checkbox"/> id	id	demo_students__id	Classes-[demo_students]	internalid	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9	<input type="checkbox"/> date_time	date time	demo_students__date_time	Classes-[demo_students]	date	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10	<input type="checkbox"/> name	name	demo_students__name	Classes-[demo_students]	field	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
11	<input type="checkbox"/> class_id	Class	demo_students__class_id	Classes-[demo_students]	databasejoin	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Figure 55 Elements removed from the list view

Access path: Fabrik → Lists → Select 'Classes' → Select 'View data'. Note the removed elements.

Figure 56 Revised display – student elements removed

Now we need to take steps to hide the elements associated with the 'classes' list.

Access path: Fabrik → Elements → Groups - Select 'classes'.

The following view will be displayed.

Figure 57 Elements associated with the 'classes' list

Select the elements to be hidden.

ID	Name	Label	Full Element Name	Group	Plugin	Show in List	Published
1	<input checked="" type="checkbox"/> id	id	demo_classes__id	Classes	internalid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	<input checked="" type="checkbox"/> date_time	date time	demo_classes__date_time	Classes	date	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5	<input checked="" type="checkbox"/> label	label	demo_classes__label	Classes	field	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Figure 58 Select elements from the 'classes' list for hiding

Then click on the 'Remove from list view' Tab.

Access path: Fabrik → Lists → Select 'Classes' → Select 'View data'. Note the removed elements.

ID	Name	Label	Full Element Name	Group	Plugin	Show in List	Published
1	<input type="checkbox"/> id	id	demo_classes__id	Classes	internalid	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="checkbox"/> date_time	date time	demo_classes__date_time	Classes	date	<input type="checkbox"/>	<input type="checkbox"/>
5	<input type="checkbox"/> label	label	demo_classes__label	Classes	field	<input type="checkbox"/>	<input type="checkbox"/>

Figure 59 'Classes' view with hidden columns

7.3.3 3.3 Hyperlink element to data from the master list view

Access path: Fabrik → Elements → Groups - Select 'classes-[demo_students]' '

The screenshot shows the Joomla! Fabrik 'lists' interface. The title bar says 'Fabrik: lists'. The main area is titled 'Classes' with the sub-instruction 'Classes contain students'. There are buttons for 'Add', 'Group by', 'CSV', and 'Empty'. Below is a table with columns 'name' and 'Group'. The 'name' column lists 'Abe Elle', 'Fred Smith', and 'Joe Doe', each with a small icon and three action buttons (edit, search, delete). A dropdown 'Display #' is set to 10. The 'Group' column shows 'Geography (3)'.

Figure 60 The elements – classes-[demo_students] view

Click on the 'name' element, as shown in the following figure.

The screenshot shows the Joomla! Fabrik 'elements' interface. The title bar says 'Fabrik: elements'. The top menu has buttons for New, Edit, Copy, Publish, Unpublish, Show in list, Remove from list, Check In, Trash, Help, and Options. A message box says 'Message 1 element checked in'. On the left is a sidebar with links like Home, Lists, Forms, Groups, Elements (which is selected), Visualizations, Packages, Connections, and Schedule. Below is a table with columns ID, Name, Label, Full Element Name, Group, Plugin, Show in List, and Published. The table rows are:

ID	Name	Label	Full Element Name	Group	Plugin	Show in List	Published
8	id	id	demo_students__id	Classes-[demo_students]	internalid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9	date_time	date time	demo_students__date_time	Classes-[demo_students]	date	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10	name	name	demo_students__name	Classes-[demo_students]	field	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
11	class_id	Class	demo_students__class_id	Classes-[demo_students]	databasejoin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Figure 61 Click on the 'name' element

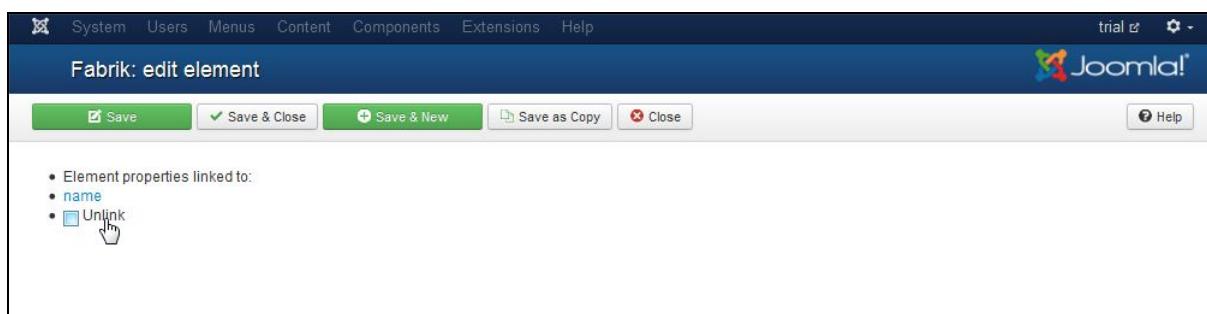


Figure 62 Click on 'unlink'

Click on 'unlink', and then click on the List Settings Tab. In Link to details click the 'yes' radio button.

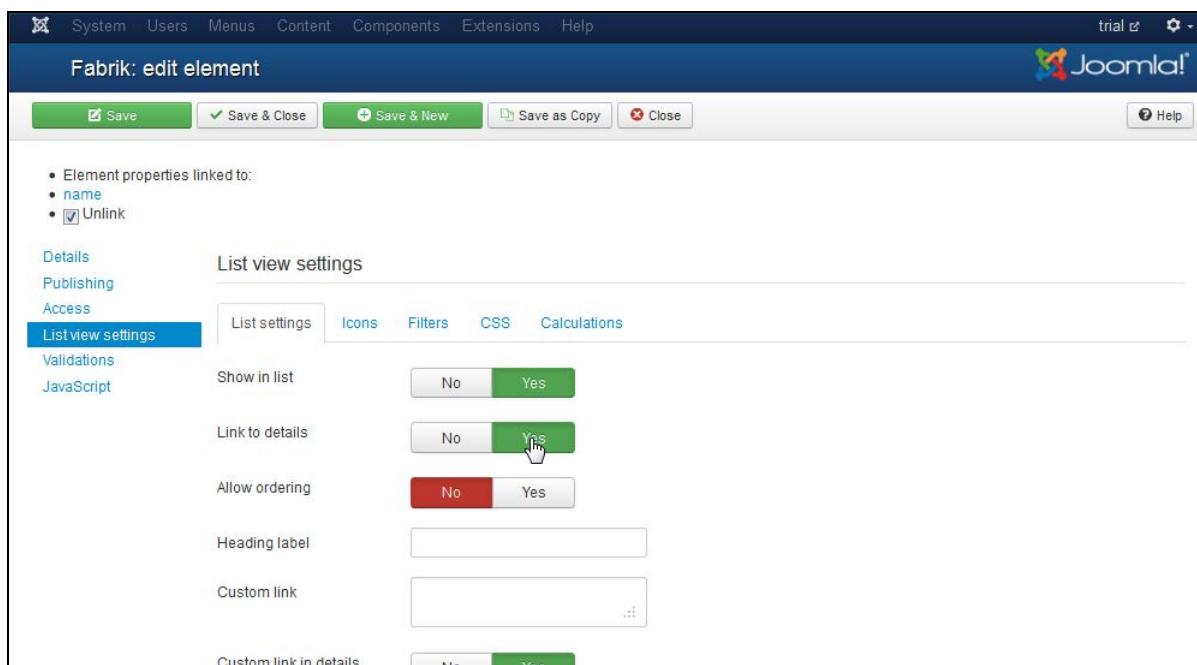


Figure 63 Link to details

Click 'Save and Close'.

Access path: Fabrik → Lists → Select 'Classes' → Select 'View data'

Classes

Classes contain students

Add Group by CSV Empty

name		X
Geography (3)		
Abe Elle		<input checked="" type="checkbox"/> <input type="button" value=""/>
Fred Smith		<input checked="" type="checkbox"/> <input type="button" value=""/>
Joe Doe		<input checked="" type="checkbox"/> <input type="button" value=""/>

Display # 10

Figure 64 Select a name

Select a name from the list, and click on it.

Classes

label Geography

demo_students

name	Abe Elle	+ -
name	Fred Smith	+ -
name	Joe Doe	+ -

Save

Figure 65 The form view is displayed

If the 'Add' icon is clicked, a new row will be added to the 'students' list, but not to the 'classes' list, as shown in the following figure.

The screenshot shows the Joomla administrator interface with the 'demo_students' list selected. A new row is being added, indicated by the 'Rob' entry in the 'name' field. The 'Save' button at the bottom left is highlighted with a mouse cursor.

name	value	actions
name	Abe Elle	
name	Fred Smith	
name	Joe Doe	 Add group
<input type="button" value="Save"/>		

Figure 66 Add a row

Add details to the 'name' element, and click 'Save'.

The screenshot shows the Joomla administrator interface with the 'demo_students' list after saving the new row. The 'name' column now includes 'Rob'.

name	value	actions
name	Abe Elle	
name	Fred Smith	
name	Joe Doe	
name	Rob	
<input type="button" value="Save"/>		

Figure 67 New row and details added to 'students' list

Now add a new row to the 'classes' list and a new row to the 'students' list.

Access path: Fabrik → Lists → Select 'View Data'

The screenshot shows a Joomla administrator interface for the 'Classes' component. The top navigation bar includes links for System, Users, Menus, Content, Components, Extensions, and Help. A dropdown menu for 'List' is open, showing 'Classes'. The main content area is titled 'Classes' and contains a table with four rows of student names: 'Abe Elle', 'Fred Smith', 'Joe Doe', and 'Rob'. Each row has a small icon, a search icon, and a delete icon. Above the table are buttons for 'Add', 'Group by', 'CSV', and 'Empty'. Below the table is a 'Display #' dropdown set to 10.

Figure 68 Add new row to 'classes' list

Click on 'Add'. A new row will be added to the 'classes' list, and a new row will also be added to the 'students' list.

The screenshot shows a Joomla administrator form for adding a new class. The top navigation bar includes links for System, Users, Menus, Content, Components, Extensions, and Help. The page title is 'Fabrik: forms'. The main content area is titled 'Classes' and contains a table with one row labeled 'Maths'. Below the table is a section for 'demo_students' with a 'name' field containing 'Anne Other'. At the bottom are 'Save' and 'Cancel' buttons.

Figure 69 New row and details added

name	Actions
Geography (4)	
Abe Elle	[Edit] [Search] [Delete]
Fred Smith	[Edit] [Search] [Delete]
Joe Doe	[Edit] [Search] [Delete]
Rob	[Edit] [Search] [Delete]
Maths (1)	
Anne Other	[Edit] [Search] [Delete]

Display # 10

Figure 70 Refreshed master – detail display

7.3.4 3.4 Changing the template for the master list view

With reference to Figure 70, the columns do not line up. We need to select a more appropriate template.

Access path: Fabrik → Lists → List name 'classes'. (See the figure below).

ID	List name	Db table	Element	Form	View data	Published	View details
1	Classes	demo_classes	[Add] [Edit] [View data] [Published]	[Edit] [View data] [Published]	[View data] [Published]		
2	Students	demo_students	[Add] [Edit] [View data] [Published]	[Edit] [View data] [Published]	[View data] [Published]		

Figure 71 Select the 'classes' list

Click on List name: 'classes'.

Scroll down the page and find the 'Layout' group box.

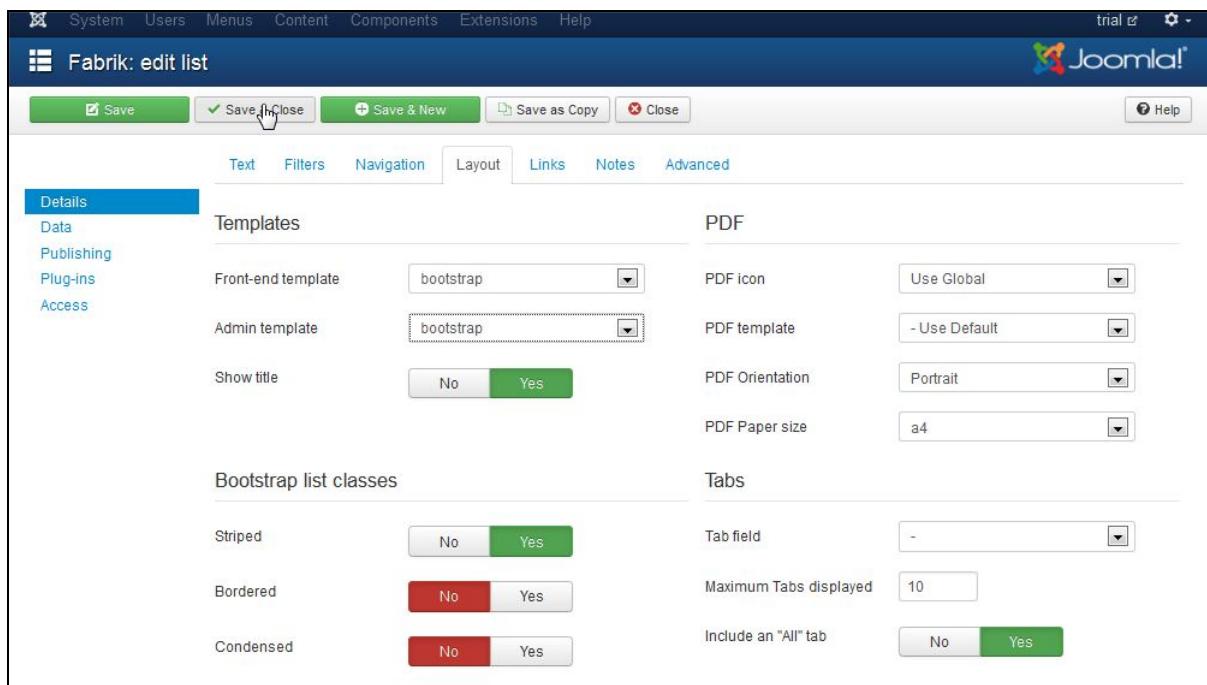


Figure 72 Update the Layout configuration settings

In the Layout Tab, change the following settings:

- Template: Change from 'default' to 'bootstrap'
- Admin template: Change from 'default' to 'bootstrap'

Click the 'Save and Close' Tab.

Click on Fabrik → Lists → Classes → Select 'View Data'.

name		X	
Geography (4)			
Abe Elle	<input type="checkbox"/>		
Fred Smith	<input type="checkbox"/>		
Joe Doe	<input type="checkbox"/>		
Rob	<input type="checkbox"/>		
Maths (1)			
Anne Other	<input type="checkbox"/>		

Display # 10

Figure 73 Master - detail view using 'bootstrap' template

7.4 4. Remarks:

This series of tasks completes the demonstration of some of the configuration possibilities.

The next step is to display the master – detail lists in the front end.

8 Display the Master and Detail lists on the frontend

8.1 1. Overview:

After having explored the means for setting up the master – detail list relationships, we can display the results on the front end.

8.2 2. Activity: Configuring the frontend display

The activity focuses upon the tasks for displaying the master – detail lists on the frontend.

8.3 3. Tasks:

8.3.1 3.1 Display the classes list

Access path: Joomla → Menu Item Manager → Select 'New'

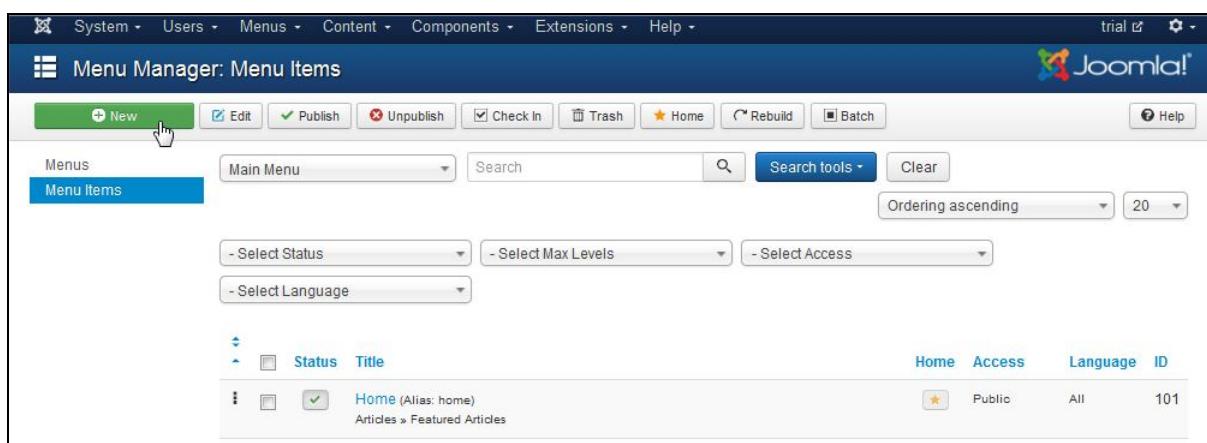


Figure 74 Create a new menu link

Under Details: Select Item Type. Click Select.

Under Fabrik, click on 'List'.

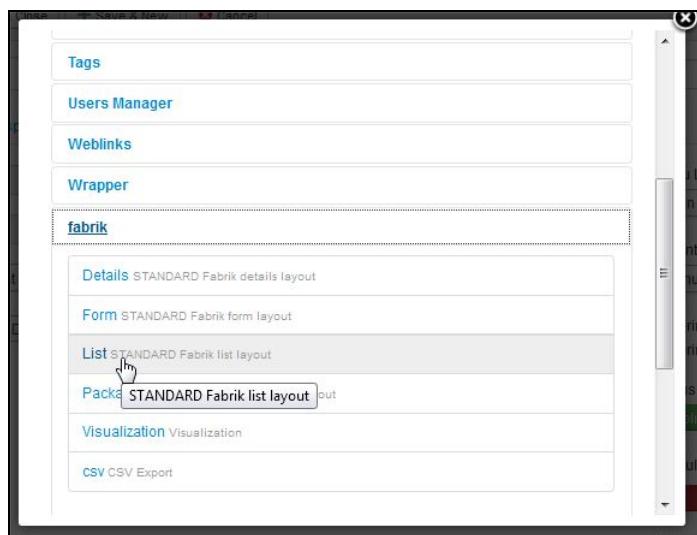


Figure 75 Select Fabrik -> List

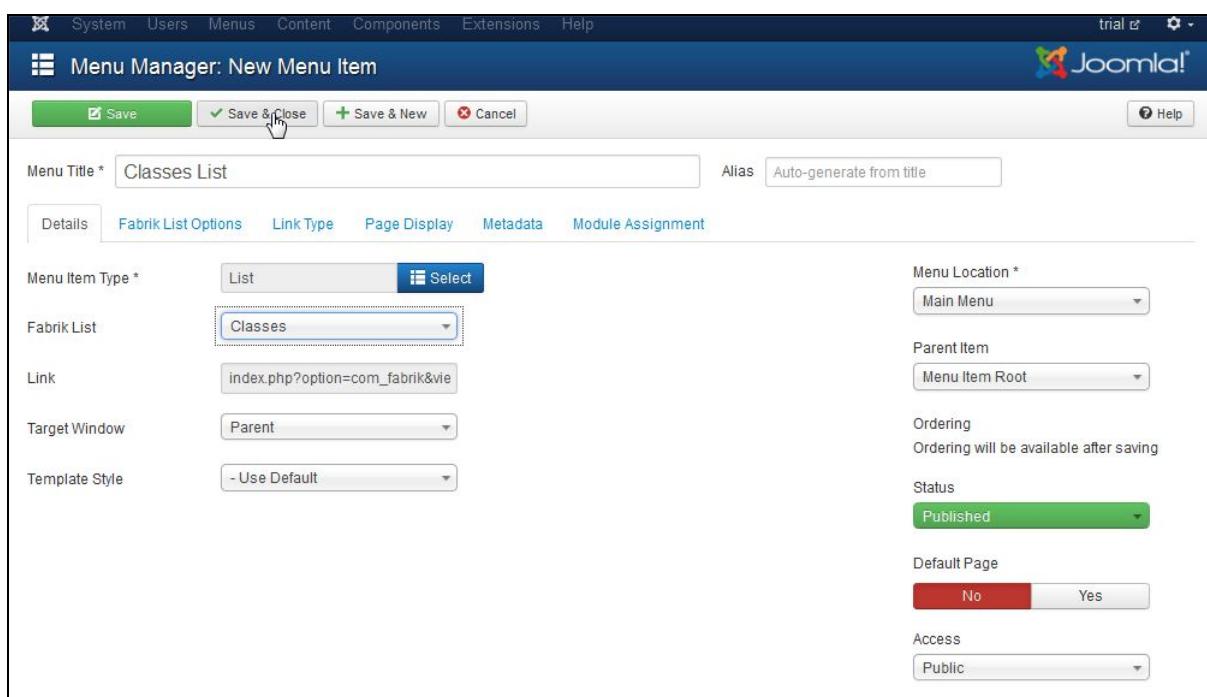


Figure 76 Configure the details

- Details: Menu Title: Enter 'Classes List'
- Details: Menu item type: 'Classes'
- Details: Fabrik list: Select 'Classes'

Click the 'Save and Close' Tab. The view is refreshed, as in the figure below.

The screenshot shows the Joomla 'Menu Manager: Menu Items' interface. At the top, there are buttons for New, Edit, Publish, Unpublish, Check In, Trash, Home, Rebuild, and Batch. A message box at the top left says 'Message: Menu item successfully saved'. Below the toolbar, there are dropdowns for Menus (set to Main Menu), Search, Search tools, Clear, Ordering ascending, and a limit of 20 items. There are also dropdowns for Select Status, Select Max Levels, Select Access, and Select Language. The main area displays two menu items:

	Status	Title	Home	Access	Language	ID
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Home (Alias: home) Articles > Featured Articles		Public	All	101
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Classes List (Alias: classes-list) Fabrik > list		Public	All	115

Figure 77 Menu item added

Click the 'Preview' Tab. (Top right corner)

The screenshot shows the Joomla front end. The top navigation bar includes links for Home and Classes List. On the right side, there is a 'Main Menu' sidebar with the same two items. Below the sidebar is a 'Login Form' with fields for User Name, Password, and Remember Me, along with a Log in button and links for Create an account, Forgot your username?, and Forgot your password?

Figure 78 Front end view

Click on the 'Classes List' menu item.

The Master – detail view is presented, as shown in the figure below.

The screenshot shows a Joomla-based application interface. The main content area is titled 'Classes' and displays a list of students grouped by class. There are two sections: 'Geography (4)' containing 'Abe Elle', 'Fred Smith', 'Joe Doe', and 'Rob'; and 'Maths (1)' containing 'Anne Other'. Each student entry includes a name, a checkbox, and three small icons. Below the list is a 'Display #' dropdown set to 10. The bottom of the content area shows a breadcrumb navigation: Home > Classes List and a URL: /classes-list/form/1/1.

Figure 79 The master - detail view

Click on a student name. The detail view will be presented, as in the figure below.

The screenshot shows the detail view for student 'Abe Elle'. The top navigation bar has tabs for 'label' and 'Geography'. The 'Geography' tab is selected and highlighted with a grey background. The main content area shows the student's details: name 'Abe Elle' with edit and delete buttons. Below this are other student entries: 'Fred Smith', 'Joe Doe', and 'Rob', each with their own edit and delete buttons. At the bottom is a 'Save' button. The bottom of the content area shows a breadcrumb navigation: Home > Classes List and a URL: /classes-list/form/1/1.

Figure 80 The detail view

8.3.2 3.2 Display the students list

Access path: Joomla → Menu Item Manager → Select 'New'

The screenshot shows the Joomla! Menu Manager interface. At the top, there's a toolbar with buttons for New, Edit, Publish, Unpublish, Check In, Trash, Home, Rebuild, Batch, and Help. A message box at the top left says "Message" and "Menu item successfully saved". Below the toolbar, there are dropdown menus for "Menus" (set to "Main Menu") and "Search" (with a search bar and tools). There are also filters for "Ordering ascending" and "20 items per page". Under "Menu Items", there are dropdowns for "Select Status", "Select Max Levels", "Select Access", and "Select Language". The main list shows two menu items:

Status	Title	Home	Access	Language	ID
checked	Home (Alias: home) Articles » Featured Articles	★	Public	All	101
checked	Classes List (Alias: classes-list) Fabrik » list	☆	Public	All	115

Figure 81 Create a new menu link for the students list

Under Select Item Type, the initial view will list only the top level items. Click on 'Fabrik' and the second tier items will be listed. Click on 'List'.

This screenshot shows the "Item Types" dialog box. On the left, there's a sidebar with categories: Tags, Users Manager, Weblinks, Wrapper, and fabrik. The fabrik category is expanded, showing several layout options:

- Details STANDARD Fabrik details layout
- Form STANDARD Fabrik form layout
- List STANDARD Fabrik list layout (highlighted with a mouse cursor)
- Package STANDARD Fabrik form package layout
- Visualization Visualization
- csv CSV Export

Figure 82 Select Fabrik -> List

The screenshot shows the Joomla! Menu Manager interface. At the top, there are tabs for System, Users, Menus, Content, Components, Extensions, and Help. The 'Menus' tab is selected. Below the tabs, the title 'Menu Manager: New Menu Item' is displayed. There are four action buttons: 'Save' (green), 'Save & Close' (green with a checkmark), 'Save & New' (blue), and 'Cancel' (red). The 'Save & Close' button has a mouse cursor hovering over it.

Menu Title *: Students List

Alias: Auto-generate from title

Details tab is selected. Other tabs include Fabrik List Options, Link Type, Page Display, Metadata, and Module Assignment.

Menu Item Type *: List

Fabrik List: Students

Link: index.php?option=com_fabrik&view=

Target Window: Parent

Template Style: - Use Default

Menu Location *: Main Menu

Parent Item: Menu Item Root

Ordering: Ordering will be available after saving

Status: Published

Default Page: No (red) Yes (green)

Figure 83 Configure the student list details

a) Menu item details: Title: Enter 'Student list'

b) Parameters (Basic): List: Select 'students'

Click the 'Save' Tab. The view is refreshed, as in the figure below.

The screenshot shows the Joomla! Menu Manager displaying a list of menu items under the 'Main Menu'. A green message box at the top left says 'Message' and 'Menu item successfully saved'. The table lists three menu items:

	Status	Title	Home	Access	Language	ID
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Home (Alias: home) Articles » Featured Articles		Public	All	101
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Classes List (Alias: classes-list) Fabrik » list		Public	All	115
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Students List (Alias: students-list) Fabrik » list		Public	All	116

Figure 84 Student list menu item added

Click the 'Preview' Tab. (Top right corner)

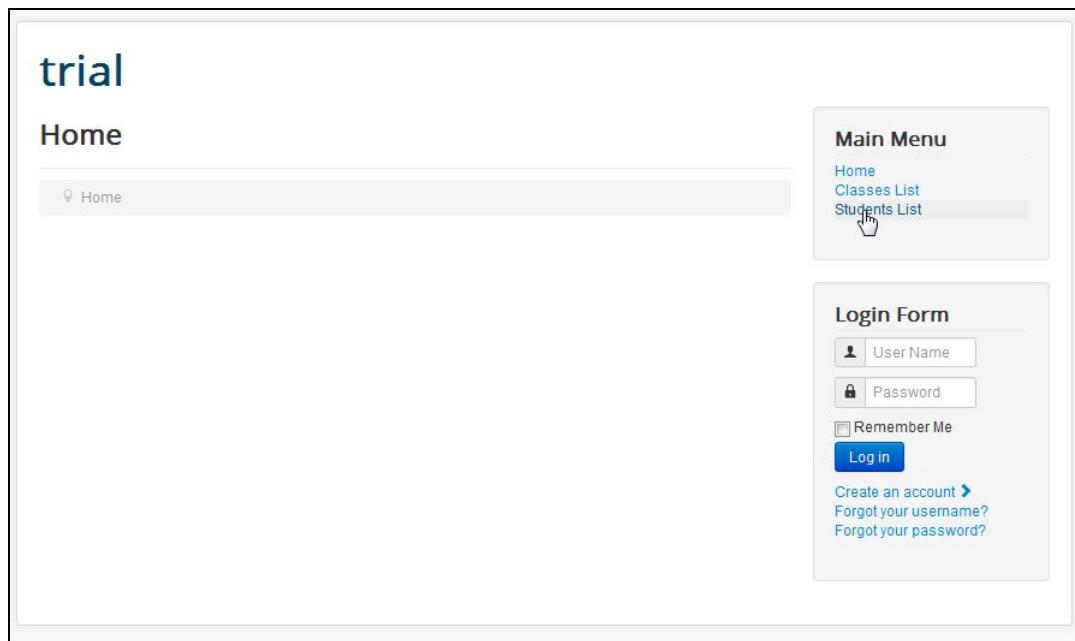


Figure 85 Front end view

Click on the 'Student List'. The student list view is presented, as shown in the figure below.

ID	Date Time	Name	Class	Action	Action
1	2013-12-10	Fred Smith	Geography	<input type="checkbox"/>	<input type="button" value=""/>
2	2013-12-10	Joe Doe	Geography	<input type="checkbox"/>	<input type="button" value=""/>
3	2013-12-10	Abe Elle	Geography	<input type="checkbox"/>	<input type="button" value=""/>
4	2013-12-10	Rob	Geography	<input type="checkbox"/>	<input type="button" value=""/>
5	2013-12-10	Anne Other	Maths	<input type="checkbox"/>	<input type="button" value=""/>

Figure 86 The student list view

Click on 'Add'. The detail view will be presented, as in the figure below.

Figure 87 The student list detail view

8.3.3 3.3 Display the classes form

Access path: Joomla → Menu Item Manager → Select 'New'

Home	Access	Language	ID
Orange Star	Public	All	101
Yellow Star	Public	All	115
Blue Star	Public	All	116

Figure 88 Create a new menu link

Under Select Item Type, the initial view will list only the top level items. Click on 'Fabrik' and the second tier items will be listed. Click on 'List'.

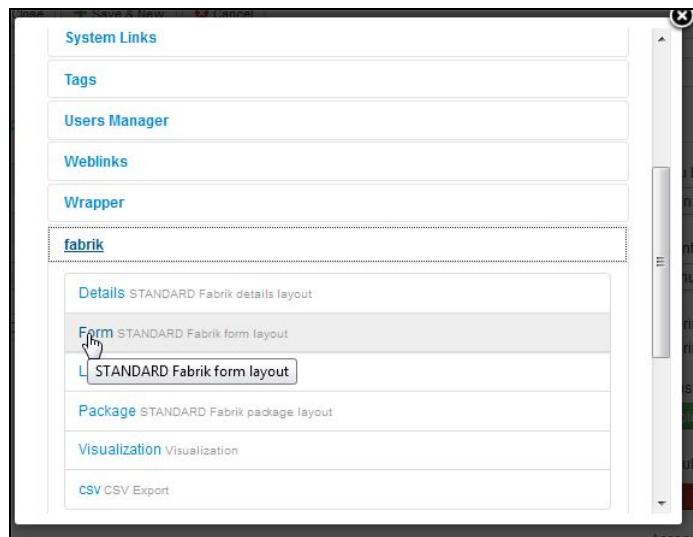


Figure 89 Select Fabrik -> Form

- Details: Menu Title: Enter 'Classes Form'
- Required settings: Form: Select 'Classes'

The screenshot shows the Joomla! Admin Panel's 'Menu Manager: New Menu Item' screen. The 'Menu Title' is set to 'Classes Form'. Under the 'Fabrik Form Options' tab, the 'Fabrik Form' dropdown is set to 'Classes'. Other settings include 'Link' (index.php?option=com_fabrik&view=class), 'Target Window' (Parent), and 'Template Style' (- Use Default). The 'Menu Location' is set to 'Main Menu', 'Parent Item' to 'Menu Item Root', and 'Status' to 'Published'. The 'Default Page' is set to 'No' and 'Access' to 'Public'.

Figure 90 Configure the classes form menu item

Click the 'Save' Tab. The view is refreshed, as in the figure below.

Status	Title	Home	Access	Language	ID
Enabled	Home (Alias: home) Articles » Featured Articles	Star icon	Public	All	101
Enabled	Classes List (Alias: classes-list) Fabrik » list	Star icon	Public	All	115
Enabled	Students List (Alias: students-list) Fabrik » list	Star icon	Public	All	116
Enabled	Classes Form (Alias: classes-form) Fabrik » form	Star icon	Public	All	117

Figure 91 Classes form - menu item added

Click the 'Preview' Tab. (Top right corner)

Figure 92 Front end view

The Master – detail view is presented, as shown in the figure below.

The screenshot shows the Joomla 3.2 Classes Form view. The main content area displays a form for adding a new class. It includes a 'label' input field with a placeholder 'label' and a 'name' input field with a placeholder 'name'. Below these fields are 'Save' and 'Delete' buttons. To the left of the form, there is a breadcrumb navigation showing 'Home > Classes Form'. On the right side, there is a sidebar with a 'Main Menu' section containing links to 'Home', 'Classes List', 'Students List', and 'Classes Form'. Below the main menu is a 'Login Form' section with fields for 'User Name' and 'Password', a 'Remember Me' checkbox, and a 'Log in' button. There are also links for 'Create an account', 'Forgot your username?', and 'Forgot your password?'.

Figure 93 The classes form view

8.3.4 3.4 Display the students form

Access path: Joomla → Menu Item Manager → Select 'New'

The screenshot shows the Joomla! Menu Manager interface. At the top, there is a toolbar with buttons for New, Edit, Publish, Unpublish, Check In, Trash, Home, Rebuild, and Batch. A message bar at the top indicates that a menu item has been successfully saved. The main area is titled 'Menu Manager: Menu Items' and shows a list of menu items under the 'Main Menu'. The list includes four items: 'Home' (Alias: home), 'Classes List' (Alias: classes-list), 'Students List' (Alias: students-list), and 'Classes Form' (Alias: classes-form). Each item has columns for Status, Title, Home, Access, Language, and ID. The 'Status' column shows checkboxes for Published (checked) and Published (unchecked). The 'Title' column lists the menu item names. The 'Home' column shows icons for star and public. The 'Access' column shows icons for star and public. The 'Language' column shows 'All'. The 'ID' column shows numerical values: 101, 115, 116, and 117 respectively.

Figure 94 Create a new menu link

Under Select Item Type, the initial view will list only the top level items. Click on 'Fabrik' and the second tier items will be listed. Click on 'List'.

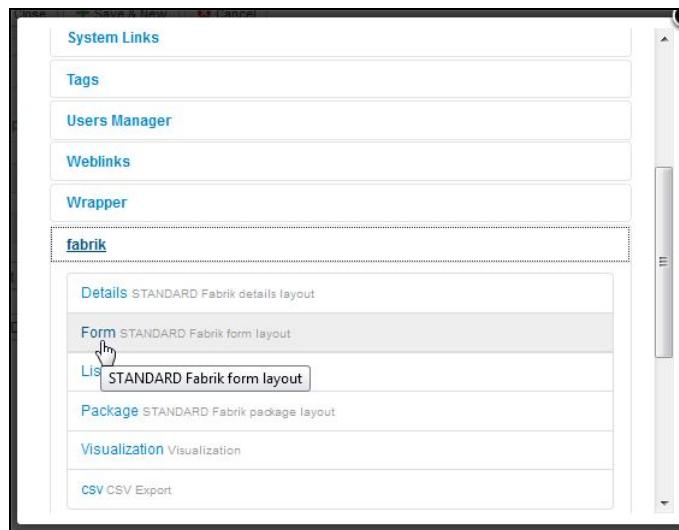


Figure 95 Select Fabrik -> Form

- Details: Menu Title: Enter 'Students List'
- Required Settings: List: Select 'students'

Figure 96 Configure the students form menu item

Click the 'Save' Tab. The view is refreshed, as in the figure below.

The screenshot shows the Joomla 'Menu Manager: Menu Items' interface. At the top, there are buttons for New, Edit, Publish, Unpublish, Check In, Trash, Home, Rebuild, Batch, and Help. A message box at the top left says 'Message' and 'Menu item successfully saved'. Below the toolbar, there are search and filter options: Main Menu, Search, Search tools, Clear, Ordering ascending, and a limit of 20 items. The main area displays a table of menu items with columns for Status, Title, Home, Access, Language, and ID. The table includes rows for 'Home (Alias: home)', 'Classes List (Alias: classes-list)', 'Students List (Alias: students-list)', 'Classes Form (Alias: classes-form)', and 'Students Form (Alias: students-form)'. All menu items have 'Public' access and are categorized under 'All' language.

Figure 97 Students form - menu item added

Click the 'Preview' Tab. (Top right corner)

The screenshot shows the Joomla front-end 'trial' site. The main page title is 'Home'. On the left, there is a breadcrumb trail: 'Home'. On the right, there are two boxes: 'Main Menu' and 'Login Form'. The 'Main Menu' box contains links to 'Home', 'Classes List', 'Students List', 'Classes Form', and 'Students Form'. The 'Login Form' box contains fields for 'User Name' (with a user icon), 'Password' (with a lock icon), and 'Remember Me' (a checkbox). It also includes a 'Log in' button and links for 'Create an account', 'Forgot your username?', and 'Forgot your password?'

Figure 98 Front end view

The detail form view is presented, as shown in the figure below.

The screenshot shows a Joomla-based application interface. At the top left, the page title is "trial". Below it, the section header is "Students". A sub-section header "Students" is displayed. On the left, there is a form with fields for "name" (an input field) and "Class" (a dropdown menu). The dropdown menu has an option "Please select" highlighted in blue, with other options "Geography" and "Maths" visible below it. A "Save" button is located at the bottom of the form. To the right of the form, there are two sidebar boxes. The top sidebar is titled "Main Menu" and contains links: Home, Classes List, Students List, Classes Form, and Students Form. The bottom sidebar is titled "Login Form" and contains fields for "User Name" and "Password", a "Remember Me" checkbox, and a "Log in" button. It also includes links for "Create an account", "Forgot your username?", and "Forgot your password?".

Figure 99 The students form view

8.4 4. Remarks:

This completes this tutorial exercise.