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## Overview

Allow a user to "compile" selected course content into either a single web page, or directly to a PDF file for printing.

### Notable Behaviors

#### Users

* Users will see a ‘Compile Course’ entry in the navigation menu when they are viewing a course.
* Clicking the ‘Compile Course’ takes them to a page where they can select which content they want to include in the compiled output. They are only able to select content of module types that have been enabled by the site administrator. This ensures that only module types which are confirmed to display appropriately are selectable.
* After selecting the desired course content (All is selected by default), the user clicks either the ‘Compile to Screen’ button, or the ‘Compile to PDF’ button. In either case, the course content is compiled and displayed in the selected format, according to the user’s browser preferences. For example, if the user has a PDF reader plug-in installed in their browser, the PDF will open in a new browser window; otherwise they will be prompted to save it.
* When content is retrieved to be added to the ‘compiled’ output, it is retrieved from the system as the user who is requesting it. This ensures that the security and preferences are maintained, and that a user never sees information that they would not normally be able to see.
* The action of simply compiling course content using this plug-in should not constitute ‘completing’ an activity. This matters if the site makes use of Moodle 2.0’s new ‘conditional content’ feature. A user should not be considered to have completed an activity simply because the compiled it to a different format (ie. paper)
* The following module types are enabled at the time of this writing:
  + Assignments: Displays the description of the assignment, and the dates it’s expected.
  + Forums: Displays the discussion topics within the forum, who posted them, etc.
  + Labels: Displays the label
  + Resources: Displays the description of the resource, and the URL to access the resource.

#### Administrators

* A new page of setting for the ‘Course Compile’ is added, to enable administrators to select which types of modules can be included in a course compile. This enables site administrators to ensure that the output of the course compile makes sense and looks acceptable.
  + The list of settings is dynamically generated based on the installed modules on the site. Each installed module gets a checkbox, allowing you to select whether or not output from that type of module should be included (or rather ‘selected to be included by the user’) in a course compile.
  + By default, any module that has custom code written to ensure it displays properly is enabled.
  + You can enable module types that do not have custom code (a ‘compile.php’ file) built to be included in the course compile. In this case, the modules default view, or ‘main page’ (generated by its mandatory ‘view.php’ file) will be used to generate the compiled content. This MAY or MAY NOT make sense in the context of a compiled course, so it should be sanity checked and tested.
  + The following module types have custom code built, and are enabled at the time of this writing:
    - Assignments
    - Forums
    - Labels
    - Resources
  + If you require other types of Activities to be compiled, you can test them in your sandbox site by:

1. Go to Site Administration
2. Expand ‘Plugins’
3. Expand ‘Local plugins’
4. Click on ‘Compile and Print’

If the standard view.php file is not compiling the Activity properly, a new compile.php file will need to be written for it. Please contact Web Systems to request it.

## Testing

### Test cases setup

You should have a course with many types of module content added to it in order to fully test this plug-in.

### Test cases

#### View a compiled course as a student using only the custom supported module types

1. Login to the Moodle site as a student user.
2. Navigate to an existing course with at least the following module types:
   1. Forum
   2. Assignment
   3. Label
   4. Resource
3. From the navigation menu, click the ‘Compile Course’ entry

Ensure that there IS a ‘Compile Course’ entry in the navigation menu

1. Leave the default selected modules selected

All modules of the supported types should be listed and selected

1. Click the ‘Compile to screen’ button

The selected, compiled modules should open up in a new tab/window. Sanity check this output to ensure it looks as you want.

1. Close the tab/window that was opened with the compiled output.
2. Click the ‘Compile to PDF’ button

The selected, compiled modules should open up in a new tab, or as a PDF file (depending on your browser settings). Sanity check this PDF file, to ensure that it looks as you want.

#### View a compiled course as a student using ALL module types

1. Login to the Moodle site as an administrator
2. Navigate to the plugin settings (Site Administration->Plugins->Local Plugins->Compile and Print)
3. Select ALL the checkboxes, to enable every module to be included in the Compiled output.
4. Repeat the test as performed above, selecting a course that has as many module types as possible.

Make a note of the modules that do NOT display the way you would want users to see them. Disable these modules in the settings window, or write a custom ‘compile.php’ for them.

#### View a compiled course as an administrator/teacher

1. Login to the Moodle site as an administrator/teacher
2. View a course with all the enabled module content types
3. Compile the course to both screen and PDF

Ensure that the compiled output makes sense when created with the higher privileged account. Make a note of any issues and report them so they can be fixed.