

I'm not robot!

A software framework is the base of an application that can be used by a developer. The framework in Joomla! 1.5 unleashes a great deal of power for them. The Joomla! code has been designed for extensibility. This tutorial will guide you through the process of developing a component using the framework. The scope of this project will be to develop a simple Hello World! component. In future tutorials, this simple framework will be built upon to show the full power and versatility of the MVC design pattern in Joomla! Requirements[edit] You need Joomla! 1.5 for this tutorial. Introduction to Model-View-Controller[edit] While the idea behind a component may seem extremely simple, code can quickly become very complex as additional features are added or the interface is customized. Model-View-Controller (herein referred to as MVC) is a software design pattern that can be used to organize code in such a way that the business logic and data presentation are separate. The premise behind this approach is that if the business logic is grouped into one section, then the interface and user interaction that surrounds the data can be revised and customized without having to reprogram the business logic. MVC was originally developed to map the traditional input, processing, output roles into a logical GUI architecture. These three main roles are the basis for the Joomla MVC. They are described here in brief, but for a more thorough explanation, please refer to the links provided at the end of this tutorial. Model[edit] The model is the part of the component that encapsulates the application's data. It will often provide routines to manage and manipulate this data in a meaningful way in addition to routines that retrieve the data from the model. In our case, the model will contain methods to add, remove and update information about the greetings in the database. It will also contain methods to retrieve the list of greetings from the database. In general, the underlying data access technique should be encapsulated in the model. In this way, if an application is to be moved from a system that utilizes a flat file to store its information to a system that uses a database, the model is the only element that needs to be changed, not the view or the controller. View[edit] The view is the part of the component that is used to render the data from the model in a manner that is suitable for interaction. For a web-based application, the view would generally be an HTML page that is returned to the user. The view pulls data from the model (which is passed to it from the controller) and feeds the data into a template which is populated and presented to the user. The view does not cause the data to be modified in any way, it only displays data retrieved from the model. Controller[edit] The controller is responsible for responding to user actions. In the case of a web application, a user action is (generally) a page request. The controller will determine what request is being made by the user and respond appropriately by triggering the model to manipulate the data appropriately and passing the model into the view. The controller does not display the data in the model, it only triggers methods in the model which modify the data, and then pass the model into the view which displays the data. MVC connection[edit] The simplified picture on the right depicts the basic components being used within Joomla. Besides the Model, the View and the Controller, an Entry Point has been added that is depicted as a small circle. Attached to the viewer (view) a Template has been added. With these five components you should be able to understand this tutorial about making a basic Joomla! MVC component. Part 1 of the tutorial only focuses on the Controller and the View (with the use of the Template); these are marked with the blue colour in the picture. Part 2 adds and Part 3 extends the model functionality for the data manipulation abstraction; marked with the green colour in the picture. Keep in mind that this simplified picture only applies for the site section (i.e. the front-end). An identical picture is applicable for the admin section (i.e. the back-end). The administrative section is taken care of in Parts 4 through 6 of this component development tutorial. Both the site and the admin section are maintained and configured in an XML based installation file (typically termed a manifest file). Joomla! MVC Implementation[edit] In Joomla!, the MVC pattern is implemented using three classes: JModel, JView and JController. For more detailed information about these classes, please refer to the API reference documentation (WIP). For learning purposes and debugging, adding a run-time debugger to your Joomla! site might be a good extension especially during development of your (tutorial) component. A good example is the community project JIDump that has the advantage of being a pop-up which leaves the view output unchanged. The JIDump system allows you to view not only your development properties but also the methods. Creating a Component[edit] For our basic component, we only require five files: site/hello.php - this is the entry point to our component site/controller.php - this file contains our base controller site/views/hello/view.html.php - this file retrieves the necessary data and pushes it into the template site/views/hello/tmpl/default.php - this is the template for our output hello.xml - this is an XML (manifest) file that tells Joomla! how to install our component. Remember that the filename for the entry point must have the same name of the component. For example, if you call your component "Very Intricate Name Component", at install time (see below in the hello.xml section) Joomla! will create the folder com_veryintricatenamecomponent and the entry point php file must be named veryintricatenamecomponent.php otherwise it will not work. Be aware that use of some special characters, notably the underscore "_", may have special meaning in Joomla and should be avoided in component names or files. The site directory here is for the parts of the component which are installed in the front end site. Naming conventions[edit] Main article: Naming conventions At this point it is important to say that some words are reserved for using in component or its class names, and violating some of that will produce a hard to debugging error. One of them is "view" (in any character case) for view class (subclass of JView) and controller class (subclass of JController), because view class need to have first part of name the same as controller class name, and component name (although violating of last one won't produce an error, it's just a useful convention). All filenames and folder names for models, views and controllers must be lower-case in order to operate well on Unix/Linux-systems. Creating the Entry Point[edit] Joomla! is always accessed through a single point of entry: index.php for the Site Application or administrator/index.php for the Administrator Application. The application will then load the required component, based on the value of 'option' in the URL or in the POST data. For our component, the URL would be: index.php?option=com_hello&view=hello This will load our main file, which can be seen as the single point of entry for our component: components/com_hello/hello.php. The code for this file is fairly typical across components. site/hello.php: Wrapping It All Up - Creating the hello.xml File[edit] It is possible to install a component manually by copying the files using an FTP client and modifying the database tables. It is more efficient to create a package file that will allow the Joomla! installer to do this for you. This package file contains a variety of information: basic descriptive details about your component (i.e. name), and optionally, a description, copyright and license information. a list of files that need to be copied. optionally, a PHP file that performs additional install and uninstall operations. optionally, an SQL file which contains database queries that should be executed upon install/uninstall The format of the XML file at hello.xml is as follows: Hello 2007-02-22 John Doe john.doe@example.org Copyright Info License Info 1.01 Description of the component ... controller.php hello.php index.html views/index.html views/hello/index.html views/hello/view.html.php views/hello/tmpl/default.php views/hello/tmpl/index.html Hello World! hello.php index.html Put this xml file, also called manifest, in the root of your package (because the installer will take its path as the root path for all other files). Don't include itself under ... You may have noticed the manifest source above mentioned files we have not discussed. These are the index.html files and the admin files. An index.html file is placed in each directory to prevent prying users from getting a directory listing. If there is no index.html file, some web servers will list the directory contents. This is often undesirable. These files have the simple line: It will simply display a blank page. The hello.php file in the admin folder is the entry point for the our component's admin section. Since our component has no administrator needs (yet), this file will have the same content as the index.html files for now. If you've followed along, you can visit URL index.php?option=com_hello to see your work. To do this, zip up the main folder and install via the extensions manager. If it still does not work, download the package at the bottom of this page and install for a working example. Contributors[edit] njaz stalanden dannystaple Stilgar presto Download[edit] The component can be downloaded at: com_hello_01

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