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## Move to GitHub

Since moving to GitHub the Joomla programmers from all around the world are aware of the developments made by other Joomla programmers and Joomla developers too. For software development projects using Git Revision control system GitHub can be used as a web-based hosting service.

Since these things have been taken care of, the next point for the Joomla developers to steer concentration towards seems to be Automated Testing.

## Joomla™s Unit Testing Method

### Aspects of Joomla developer

The requirements of the Joomla team for a Joomla developer to become a Joomla tester are very minimal. If a Joomla programmer can commit to the Joomla code base then that Joomla programmer can become a part of the Joomla unit testing team.

Unit testing also works as a very important aid for a Joomla developer to build apart from being an efficient aspect of good Quality Control Program. The Joomla programmer working on a module can enhance his/her focus on the project using pre-meditated tests which will help in understanding the upcoming problems.

Joomla programmers following this practice find it extremely effortless to write smaller, more loosely coupled, more reusable, and more maintainable code units and the advantages obtained through this mode of Unit Testing is more effective than simply using it as a Quality Control tool.

Using this systematic method enables the Joomla programmer to concentrate more on the requirements rather than focusing more on the correctness of the module.

### Benefits of Joomla Unit Testing

When Joomla programmers are working on huge projects the minuscule errors which cause unexpected changes on the whole cannot be identified easily. To tackle this issue the process of unit testing is used. Unit testing enables the Joomla programmers to identify these errors as it highlights them prominently.

By using Unit Testing the parameters of the behavior of a class can be defined clearly and with such well-defined classes fluctuation of class parameters will be eradicated. With careful analysis of the design which is a part of unit testing the flaws in the design can be identified early in the development process, once this is done the Joomla developer need not keep checking the inconsistencies in the design. The examples presented during Unit Testing are numerous and using these examples the Joomla developers can study and analyze the code.

### Process of Unit Testing in Joomla

Writing tests and developing Joomla content for the website simultaneously or writing tests before developing the content can save a lot of time for the Joomla developer or Joomla programmer and

apart from that it reduces the probability of regression too.

These Unit Tests conducted in a Joomla system starts from testing individual units to testing the whole integrated system. Integrated testing is a process of simulating an action which is anticipated by the Joomla developer of the user to perform and this simulated action is checked with the action which was expected by the Joomla developer. This is an "end-to-end"™ type of testing which can be used to test if all the parts of the application are working.

Once individual units are tested the Joomla developers can integrate two or more units together and test. While coupling these units they have to be checked if there are any interactions between the units, unless there are there is no point in checking them. If there are interactions between these systems then the Joomla programmer can decide on a pre-meditated result and check if the result obtained matches the anticipated one.

After Unit Testing is done the last step is to test the whole system but by unit testing a larger system the effort of testing becomes bigger than its uses. To tackle this difficulty the Integration Testing is adopted. During this integrated testing mock objects are replaced, by the Joomla developers, with real objects and their interactions are tested in the top level.

These are the various types of testing adopted by Joomla developers to ensure that the products being built are of expected standard and quality.

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