

Joomla! 1.5

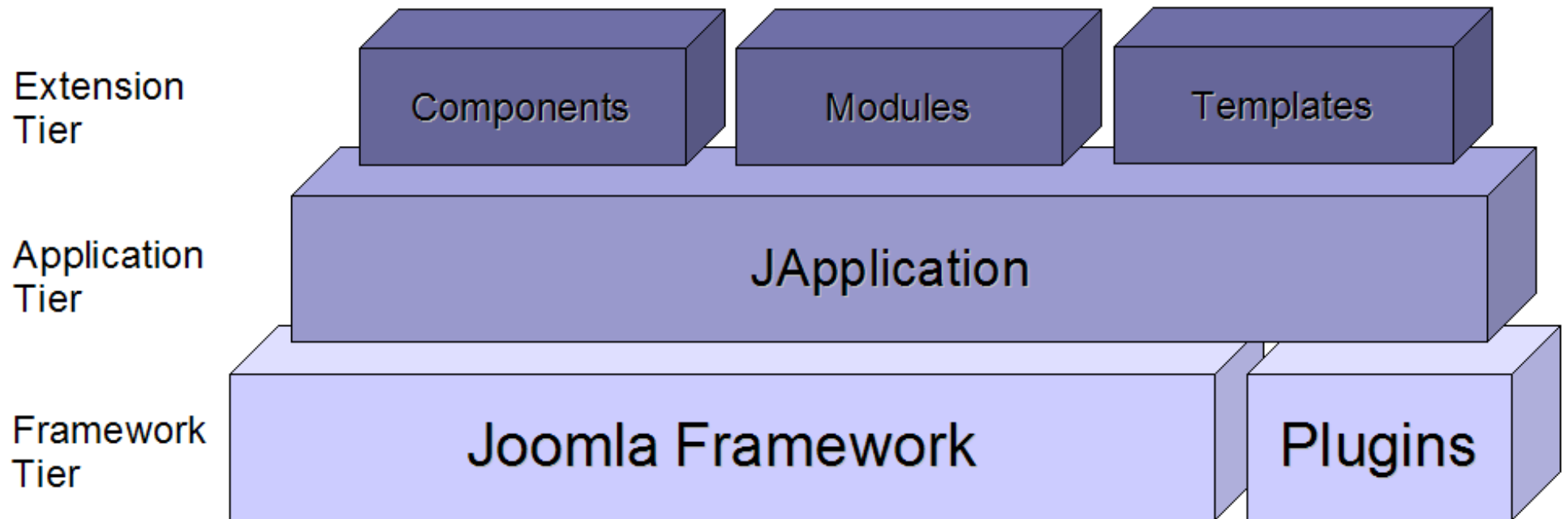
By Charl van Niekerk

charlvn.za.net

Joomla! 1.5 at a glance

- Total rewrite of Joomla!
- Has documented developer API
- Focus on:
 - Object orientated programming
 - MVC (Model-View-Controller)
 - Architecture
 - Design Patterns
- Get more done, faster!

Framework Overview



MVC: Model-View-Controller

- JController class
 - Base class for component controllers
- JModel class
 - Used to retrieve a model (Factory)
 - Base class for component models
- JView class
 - Base class for component views
 - Link between controller and templates

MVC: Model-View-Controller

1. Controller is called
2. Controller loads model
3. Controller loads view
4. Controller assigns model to view
5. View loads template
6. Template is populated and displayed

JObject

- The master Joomla! class
- Enables `__construct` in PHP 4
- Provides property management
- Provides error handling

Generic Classes

- JObserver, JObservable, JDispatcher, JEvent
 - Abstract classes
 - Used to implement Observer design pattern
- JTree and JNode
 - Simple tree structure
- Cache Infrastructure

Client Libraries

- JFTP
- JLDAP

JDocument

- Generic document with:
 - Title
 - Description
 - Character set
 - Language
 - Text direction
 - Modification date
 - Link
 - Type
 - etc...

JDocument Types

- (X)HTML
 - addCustomTag
 - addFavicon
 - addHeadLink
- Error Page
- Feed
- PDF
 - setHeader
 - getHeader
- Raw

Environment

- JBrowser
 - Provides information about the user agent
- JRequest
 - Encapsulates an HTTP Request
 - Provides access to filtered variables, URI, request method, etc.
- JResponse
 - Represents an HTTP Response
 - Provides access to header and body
- JURI
 - Encapsulates a page address
 - Provides easy access to its various segments

Files & Directories

- JArchive
 - Bzip2
 - Gzip
 - Tar
 - Zip
- JFile
- JFolder
- JPath (Finding files and permissions)

Filters

- JFilterInput
 - Clean (X)HTML Input
 - Used for prevention of XSS
- JFilterOutput
 - Encodes special characters (e.g. left-than <, greater than >, ampersands, etc)

(X)HTML

- Images
- Buttons
- Select Boxes
- Pagination
- Tabs
- Toolbars
- Menus
- Lists
- Grids
- Sliders
- E-mail (cloaking)

JavaScript

(mootools)

- Calendars
- Trees
- Uploaders
- Tool Tips
- Form Validation

Miscellaneous

- Internationalisation / Localisation
- Mail
- Parameter / Configuration Management
- Session Management
- User Management

Utilities

- Dates
- Errors
- Exceptions
- Logs
- Profiling
- Cryptography
- XML
- Strings

Templates

- patTemplate
- Standard PHP Templating
- Template Overrides