**REDMINE**

It is a tool for project management and issue tracking open source web based. It allows users to manage multiple projects and their subprojects. For each project it provides useful tools such as wikis and forums, time tracking and flexible access control based on roles.

Redmine also offers classic functionalities in project management activities as calendar or Gantt charts, which allows a comfortable visual monitoring of the lines of work.

Redmine uses Ruby on Rails. As database supports both as MySQL or PostgreSQL SQLite. The main advantage provided as project manager is to have all the information associated with a project bounded inside. It will also allow control of the execution, all through a web interface that makes it easy to manage them.

Redmine supports different types of projects. Users who access have different functions depending on their role, either as a user, project manager, administrator, etc. all based on a permit system. Each project can be associated if desired documents, records or news well. In addition, a notification system for users is established by email either because you have been assigned a task or because part of the project has changed or updated.

Each project we will associate a Wiki that allows us to generate content quickly, and edit and manage collaboratively. We also have the possibility of having a forum for the project, which undoubtedly contributes greatly to reduce the level of mail that we passed among participants in it, which undoubtedly contributes to improve the productivity of each of the members of the project.

**characteristics**

* Support for multiple projects (with their respective sub-projects).
* Flexible access control based on roles.
* Flexible issue tracking system.
* Gantt charts and calendar.
* Manager news, documents and files.
* Feeds and email notifications.
* Wiki for each project.
* Forum for each project.
* Monitoring timelines (work).
* Custom fields for issues, time entries, projects and users.
* Integration with control systems most used versions (Subversion, CVS, Git, Mercurial, Bazaar and Darcs).
* Creating incidents via email.
* Support for multiple LDAP authentication.
* Support for auto-registration of users.
* Support for 34 languages ​​(including Spanish course).
* Support for multiple systems databases (including MySQL, PostgreSQL and SQLite).
* Extension through plugins.

**Advantage**

* Multi platform
* We can have both the information associated with a project and its execution control everything centralized in the same program and accessible via a web interface very easy to use.
* Multilanguage, including Spanish.
* The application is very simple to use and although the main area can be the business or software development.
* The structure and depth of options and settings are well chosen.

**disadvantages**

* The installation can be very complex, not only because the required packages, if not the steps (some delicate) to be given.
* Although there is much documentation about it, it is too informal and not always work in all cases.
* There .deb packages that facilitate the process, but are not well documented.

**System Requirements**

Redmine is not equipped with features easily accessible for people with accessibility problems of any kind. However, the application can be seamlessly integrated with any assistive technology operating system, and any option related to your internet browser.

The only requirements to install Redmine on a machine are: a database (which can be MySQL, PostgreSQL or SQLite), Ruby and Ruby on Rails in their proper versions. If a machine supports this, Redmine can be installed regardless of platform. Rails run on any operating system.

A client level, Redmine can be accessed from any platform or operating system, so you just need the appropriate network connection and an Internet browser.

**Justification**

Redmine has the advantage that users accessing have different functions depending on the role assigned ie the administrator can access all information, but other roles as a programmer only information that corresponds to one of the most important advantages is that it is a free software and can manage more than one project at a time.

Allows all information associated to a project stored within it so you can easily access it.

It also includes various features such incident tracking errors, activity calendar, Gantt charts to visually represent the timeline of projects and integration with email.

Another thing we can associate each project is a Wiki, enabling us to generate content quickly and can edit and manage them cooperatively.