***Front***

Summary (one page)

Index

Introduction.

Objectives (incluyendo descripción del problema, estudio de alternativas y

metodología empleada).

Technological description (puede incluir especificación, diseño e

implementación).

Conclusions (incluyendo los logros principales alcanzados y posibles

trabajos futuros).

Bibliography

Appendix

***What is Moodle***

***Moodle is an open source code system used for teaching and learning purposes. It allows to create on line dynamic web pages, create courses and manage it with the web interface. This made it popular between teachers around the world as a tool to provide resources to students and support teaching. It needs a data base system and a web server to work properly.***[***https://moodle.org/about/***](https://moodle.org/about/)

***Moodle requirements:***

* ***PHP***
* ***Database system: MySQL***
* ***Web server: apache***

Moodle Web Services:

Moodle web services are additional Moodle modules that let you to use Moodle with other protocols than http such as AMF, SOAP, REST and XML-RPC. This services has been tough for interacting Moodle with other applications.

***Creating an external application using Moodle via Web Services***

* ***Moodle requeriments:  
  REST protocol will be used in this application.***

*Using web services:* [*http://docs.moodle.org/24/en/Using\_web\_services*](http://docs.moodle.org/24/en/Using_web_services)

*To Allow users to create and see their own security keys(token) you must assign a system role with this user capabilities:*

* + *users* [*moodle/webservice:createtoken*](http://docs.moodle.org/24/en/Capabilities/moodle/webservice:createtoken) *(if not, the administrator must create the token manually for each user for the service)*
  + [*webservice/rest:use*](http://docs.moodle.org/24/en/Capabilities/webservice/rest:use)
  + *service required capability (depends of the service, check Settings-> Site administration-> Plugins-> Web services-> Manage services->****Edit)***
  + ***required capabilities for the service functions.***
  + ***Also you must enable the web service function documentation, in Settings-> Site administration-> Plugins-> Web services-> Manage protocols***
* ***Get web services token:***[***http://docs.moodle.org/dev/Creating\_a\_web\_service\_client***](http://docs.moodle.org/dev/Creating_a_web_service_client)

***Service short name info:*** [***https://moodle.org/mod/forum/discuss.php?d=197187***](https://moodle.org/mod/forum/discuss.php?d=197187)

* *Get JSON answers to REST requests:* [*https://moodle.org/mod/forum/discuss.php?d=204469*](https://moodle.org/mod/forum/discuss.php?d=204469)

*In the request you must include the parameter "moodlewsrestformat=json"  
example: /webservice/rest/server.php?wstoken=1cfc5fsd5a6fa75dfa&wsfunction=core\_webservice\_get\_site\_info&moodlewsrestformat=json*