***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:*

* + [*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*