To set up the Moodle API for user creation, you'll need to follow a few steps. Here's a guide to help you get started:

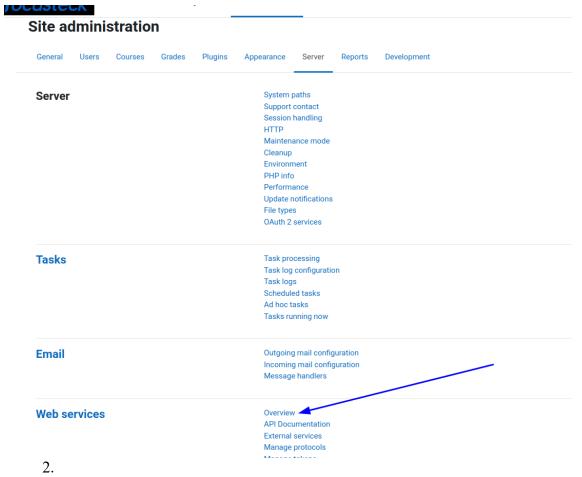
1. Enable Web Services in Moodle

• Log in as Admin: Log in to your Moodle site as an administrator.

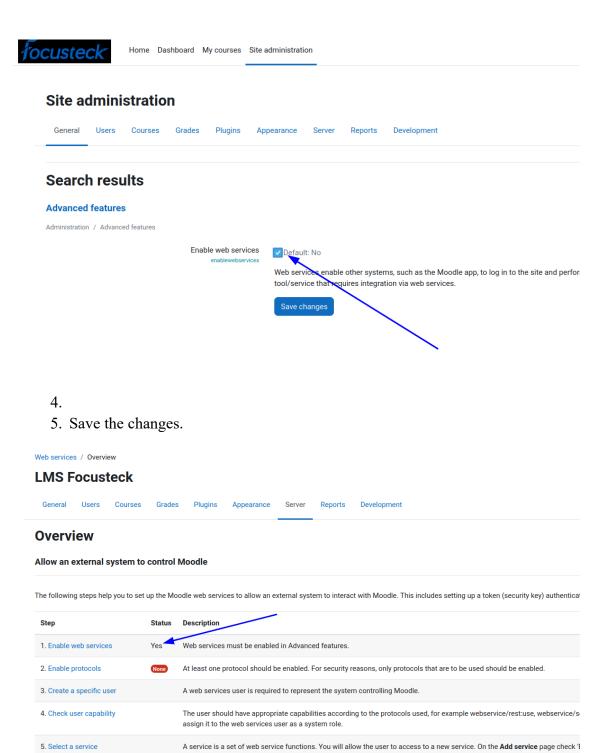


• Enable Web Services:

1. Go to Site administration > Server > WebServices. > Overview



3. Check Enable web services.



2. Create a Web Service Role

• Create a Role:

6.

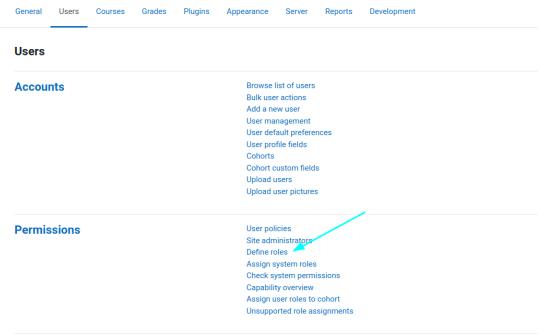
6. Add functions

1. Go to Site administration > Users > Permissions > Define roles.

Select required functions for the newly created service.



Site administration



- 2.
- 3. Click on Add a new role.



Home Dashboard My courses Site administration

Permissions / Define roles

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General Users Courses Grades	Plugins Appearance Server Reports Development
Manage roles Allow role assignments	Allow role overrides Allow role switches Allow role to view
Role 1	Description
Manager	Managers can access courses and modify them, but usually do not participate in them.
Course creator	Course creators can create new courses.
Teacher	Teachers can do anything within a course, including changing the activities and grading students.
Non-editing teacher	Non-editing teachers can teach in courses and grade students, but may not alter activities.
Student	Students generally have fewer privileges within a course.
Guest	Guests have minimal privileges and usually can not enter text anywhere.
Authenticated user	All logged in users.
Authenticated user on site home	All logged-in users in the site home course.
Add a new role	

- 4.
- 5. Define a role name, for example, api-user.

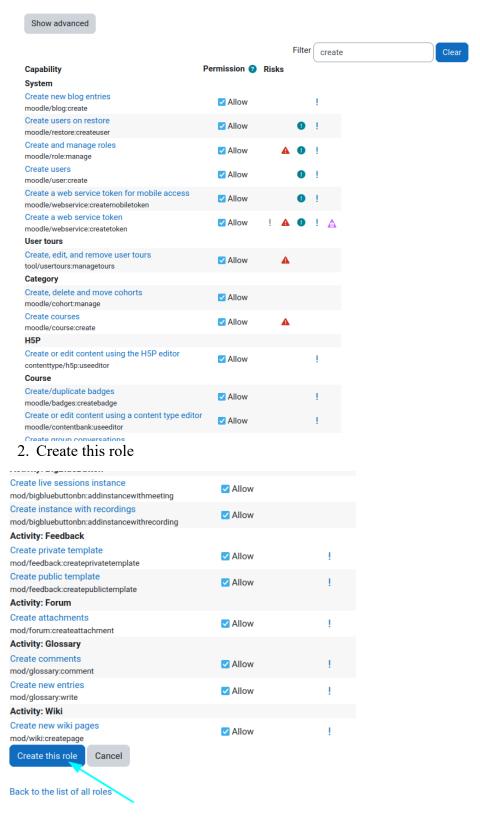
Adding a new role o

Create this role Cancel		
Short name	•	api-user
Custom full name	0	
Custom description	•	
Role archetype	3	ARCHETYPE: Authenticated user \$
Context types where this role may be assigned		☑ System ☐ User
		✓ Category
		✓ Course
		☐ Activity module
(

6.

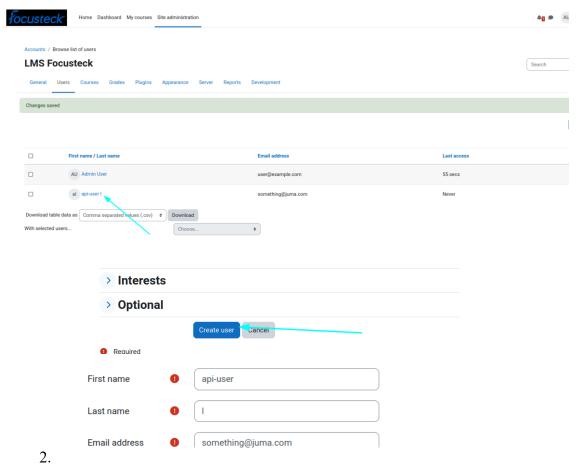
• Assign Capabilities:

- 1. Search for and enable relevant capabilities like:
 - moodle/webservice:createtoken
 - moodle/user:create
 - moodle/user:update
 - moodle/user:view

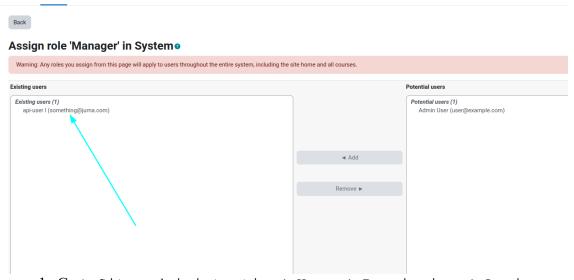


3. Create a Web Service User

- Add a New User:
 - 1. Go to Site administration > Users > Accounts > Add a new user.



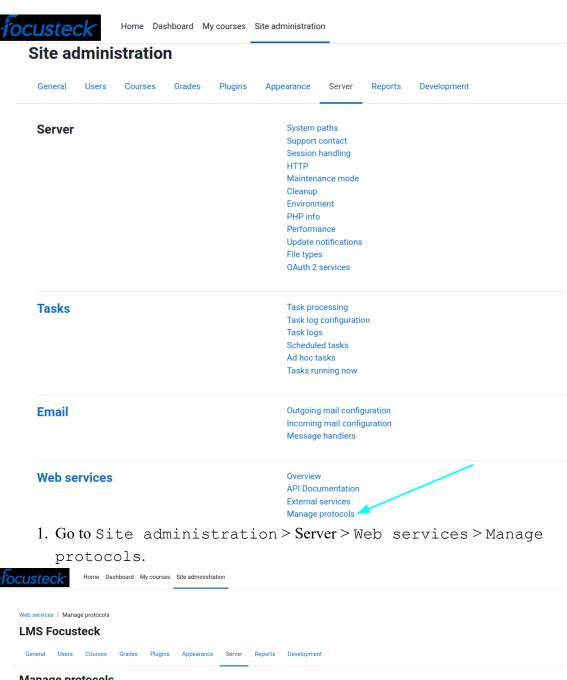
- 3. Fill in the required details for the user who will be assigned to handle the web services.
- Assign the Role to the User:



- Go to Site administration > Users > Permissions > Assign system roles.
- 2. Assign the **api-user** role to the newly created user.

4. Enable the REST Protocol

• Enable REST:



Manage protocols

Active web service protocols

Protocol Version Enable

REST protocol 2024042200

SOAP protocol 2024042200

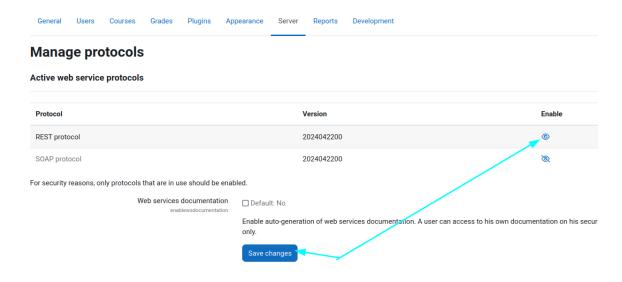
SOAP protocol 2024042200

For security reasons, only protocols that are in use should be enabled.

Web services documentation enablewabdocumentation enablewabdocumentation of web services documentation. A user can access to his own documentation only.

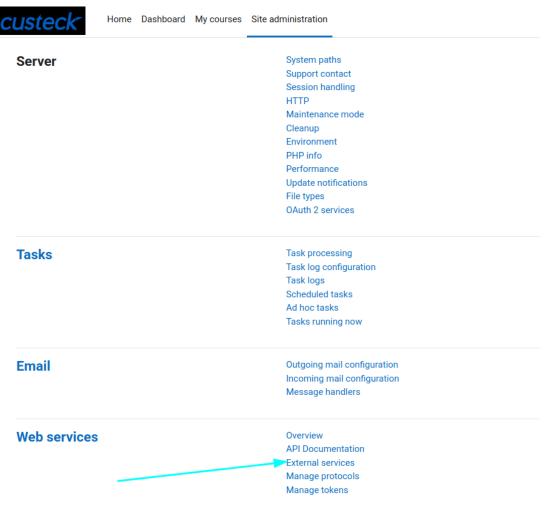
Save changes

2. Enable the REST protocol by clicking on the eye to enable and save changes

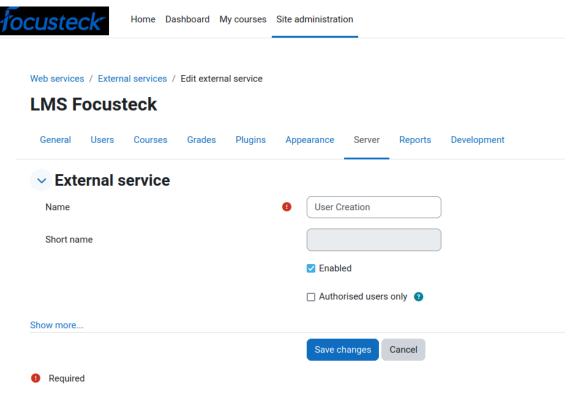


5. Create a Web Service

- Add a New Service:
 - Go to Site administration > Server > Web services > External services.

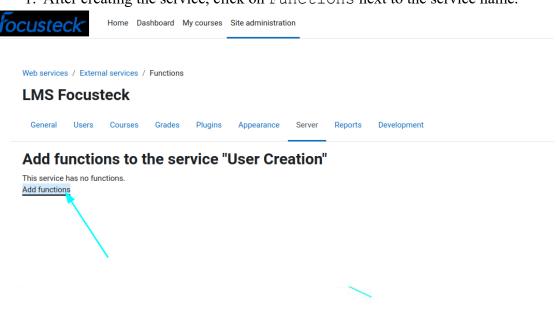


- 3. Add a new service and name it, for example, User Creation Service.
- 4.
- 5. Ensure the service is enabled and is selected.

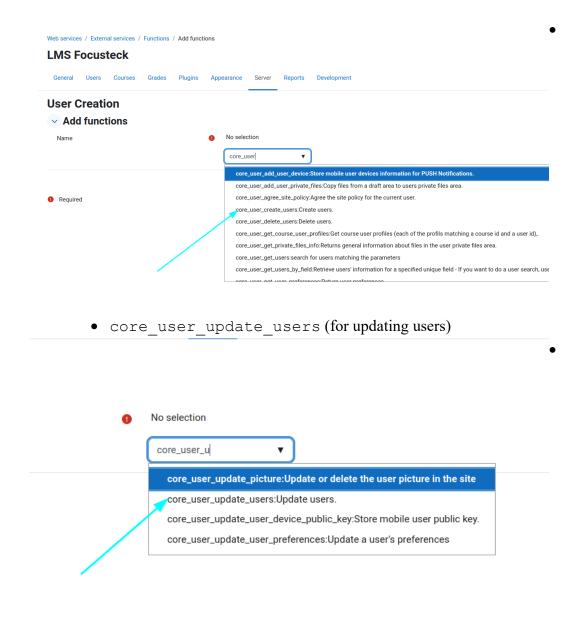


• Add Functions:

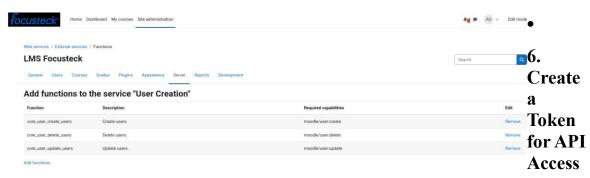
1. After creating the service, click on Functions next to the service name.



- 2
- 3. Add the following functions to the service:
 - core_user_create_users (for creating users)

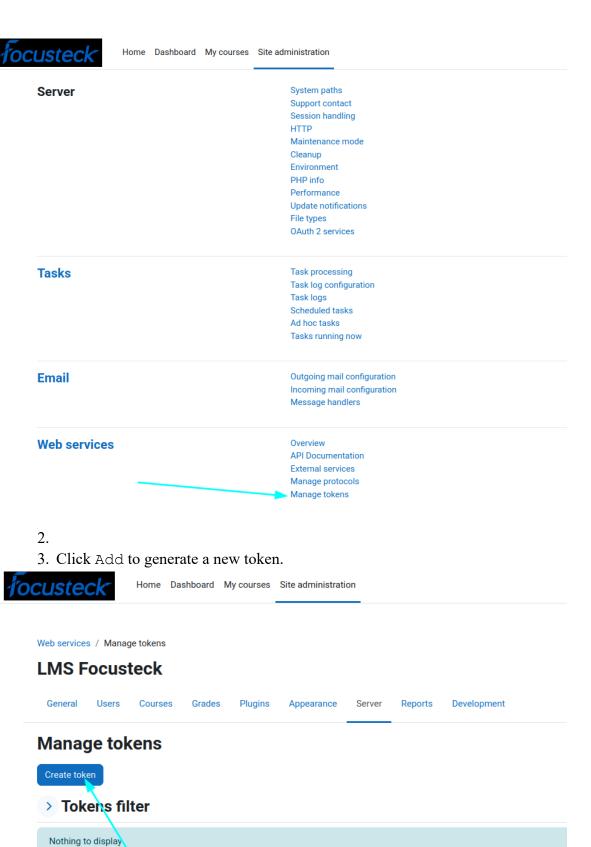


• core_user_delete_users (for deleting users)

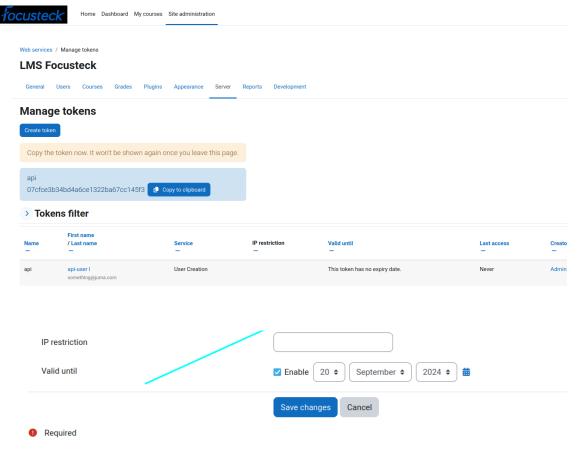


• Generate a Token:

 Go to Site administration > Server > Web services > Manage tokens.



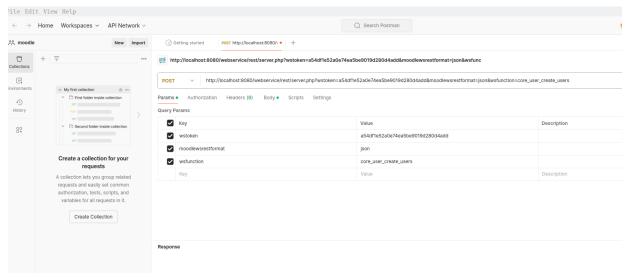
- 4.
- 5. Select the web service user you created earlier and the service (User Creation Service) to link the token to.



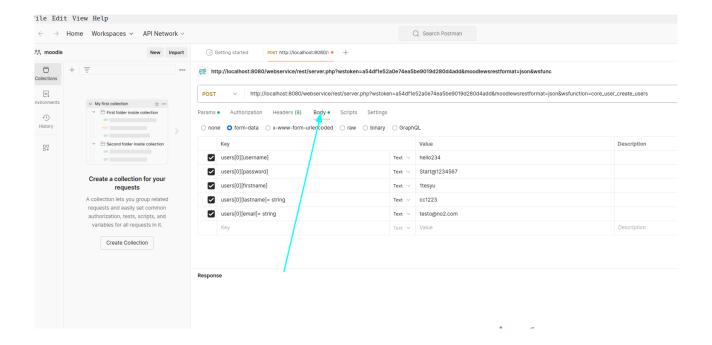
7. Copy the token as will be used later

7. Use the Moodle API to Create a User

• Make a REST API Call: To create a user, you need to send a POST request to the Moodle endpoint with the necessary parameters.



• I have Postman to test the functionality



8. Test the API

• Send a request to the Moodle server and check the response to ensure that the user creation is successful.

This setup allows you to create users via the Moodle API using a REST call. You can adapt this process for other functions and integrate it into your system as needed.