

Errors Occurred

When user has no action for a long time

- After I logged in, I left it along for over 24 hours. When I tried to click "Knowledge Map" button again, the system showed the message as Figure 1 shows because the session was expired, perhaps? The system shall identify this case and redirect the user to other page and ask users to sign in again.

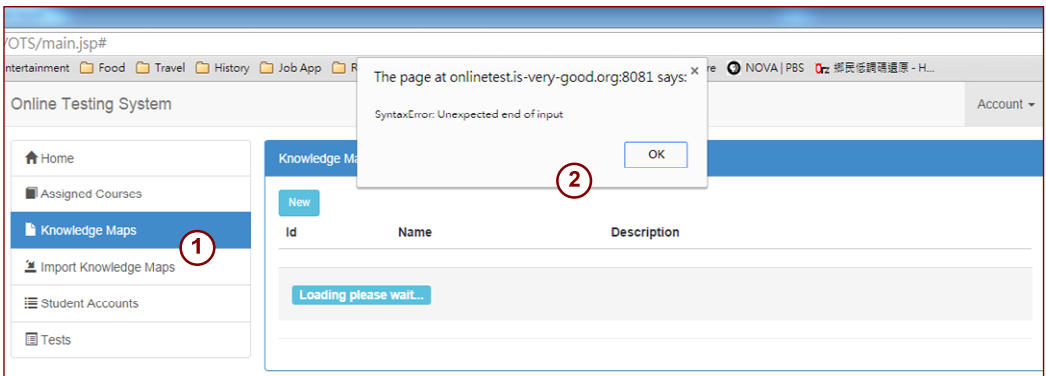


Figure 1. The error message popped up when the system was idled for a long time.

User Interface Suggestions

Assigning Knowledge Map to Courses

The knowledge maps that already associated to the course shall not be able to be selectable as Figure 2 shows. Perhaps the Select buttons can be in grey (i.e., disabled) or replaced by another kind of buttons.

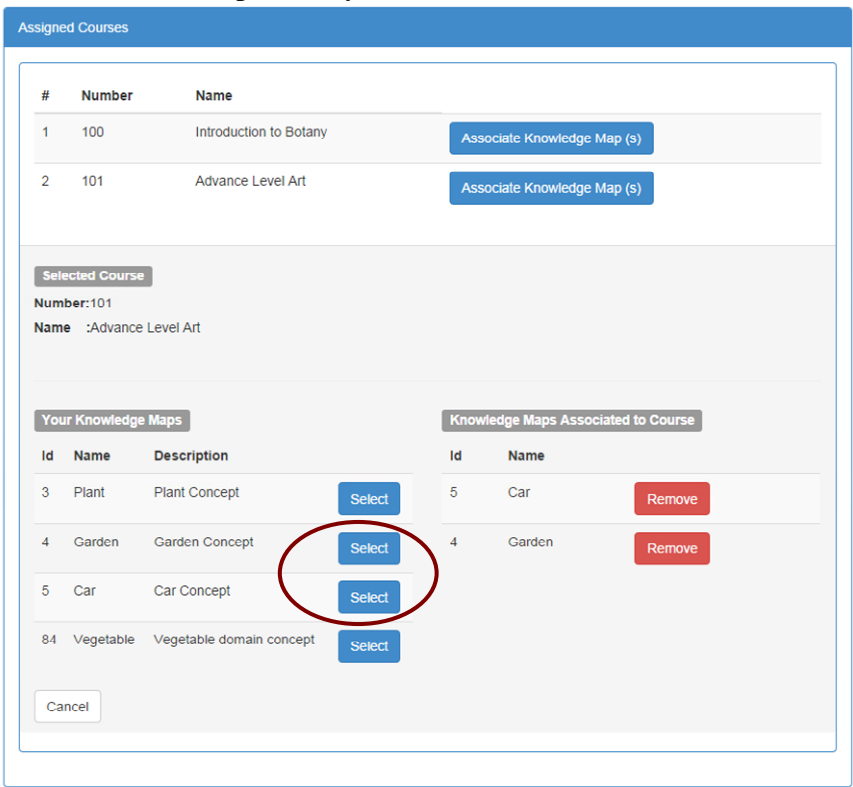


Figure 2.

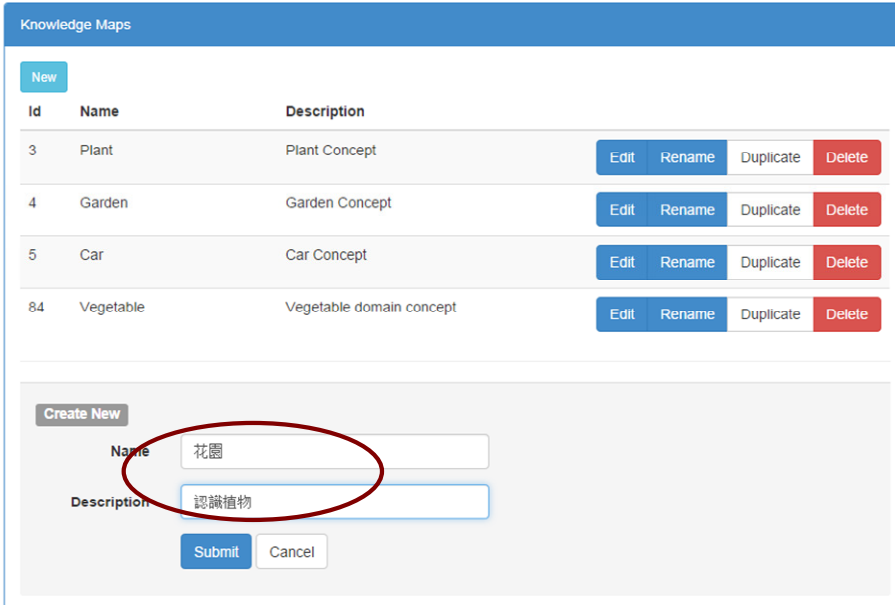
System Suggestions

Case sensitive in login password

- I tried to use both "Maiga/Maiga" and "maiga/maiga" to login the system and both of the ID/password allowed me to login. Password shall be case sensitive so in the future more secure password restrictions can be applied.

Unicode Problem

- As this research system (and its idea) would be tested by having experiments around the world, the system should be capable of dealing with language other than English such as Chinese, Japanese, Hindi, Greek, etc. So the research can invite teachers around the world to use the system and the system's usability can be assessed.
- As Figure 3 shows, I first tried to create a new knowledge map with name and description in Chinese.



The screenshot displays the 'Knowledge Maps' interface. At the top, there is a 'New' button. Below it is a table with columns 'Id', 'Name', and 'Description'. The table lists four existing maps: 'Plant', 'Garden', 'Car', and 'Vegetable'. Each row has buttons for 'Edit', 'Rename', 'Duplicate', and 'Delete'. Below the table is a 'Create New' section with a 'Create New' button and two input fields: 'Name' and 'Description'. The 'Name' field contains the Chinese text '花園' and the 'Description' field contains '認識植物'. Both input fields are circled in red. At the bottom of the 'Create New' section are 'Submit' and 'Cancel' buttons.

Id	Name	Description	Edit	Rename	Duplicate	Delete
3	Plant	Plant Concept	Edit	Rename	Duplicate	Delete
4	Garden	Garden Concept	Edit	Rename	Duplicate	Delete
5	Car	Car Concept	Edit	Rename	Duplicate	Delete
84	Vegetable	Vegetable domain concept	Edit	Rename	Duplicate	Delete

Create New

Name: 花園

Description: 認識植物

Submit Cancel

Figure 3.

- After I submitted the information, the Knowledge Map list showed that there is a new knowledge map and its name and description are what I expected to see in Chinese as Figure 4 shows.

Knowledge Maps				
New				
Id	Name	Description		
3	Plant	Plant Concept	Edit	Rename
4	Garden	Garden Concept	Edit	Rename
5	Car	Car Concept	Edit	Rename
84	Vegetable	Vegetable domain concept	Edit	Rename
85	花園	認識植物	Edit	Rename
Success ! New knowledge map created				

Figure 4.

- However, after I clicked other links (such as Assigned Courses), the information of the new knowledge map that I just created in Chinese was incorrectly showed (as Figure 5 shows) when I once again came back by clicking the Knowledge Map link later.

Knowledge Maps				
New				
Id	Name	Description		
3	Plant	Plant Concept	Edit	Rename
4	Garden	Garden Concept	Edit	Rename
5	Car	Car Concept	Edit	Rename
84	Vegetable	Vegetable domain concept	Edit	Rename
85	??	????	Edit	Rename

Figure 5.

- Nodes in Concept Hierarchy and data in Concept Schema might have the same problem.