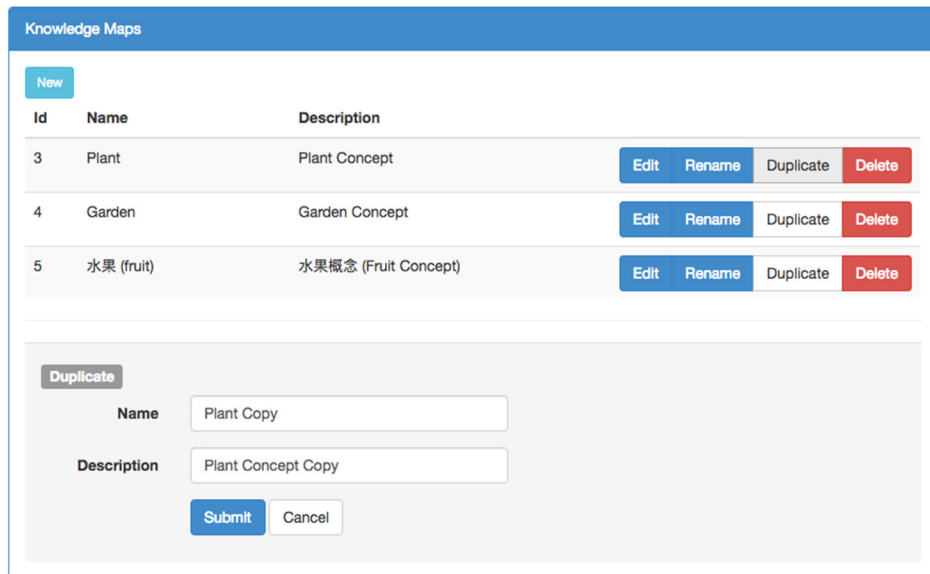


# Knowledge Map

## Suggestion for UI Design

- After I copied “Plant” Knowledge Map (as Figure 1 and Figure 2 show) as “Plant Copy” Knowledge Map, I removed the “Plant Copy” Knowledge Map (as Figure 3 and Figure 4 show).



The screenshot shows 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 contains three rows: 'Plant' (Id 3), 'Garden' (Id 4), and '水果 (fruit)' (Id 5). Each row has four action buttons: 'Edit', 'Rename', 'Duplicate', and 'Delete'. Below the table, there is a 'Duplicate' form. The form has a 'Name' field with the value 'Plant Copy' and a 'Description' field with the value 'Plant Concept Copy'. At the bottom of the form are 'Submit' and 'Cancel' buttons.

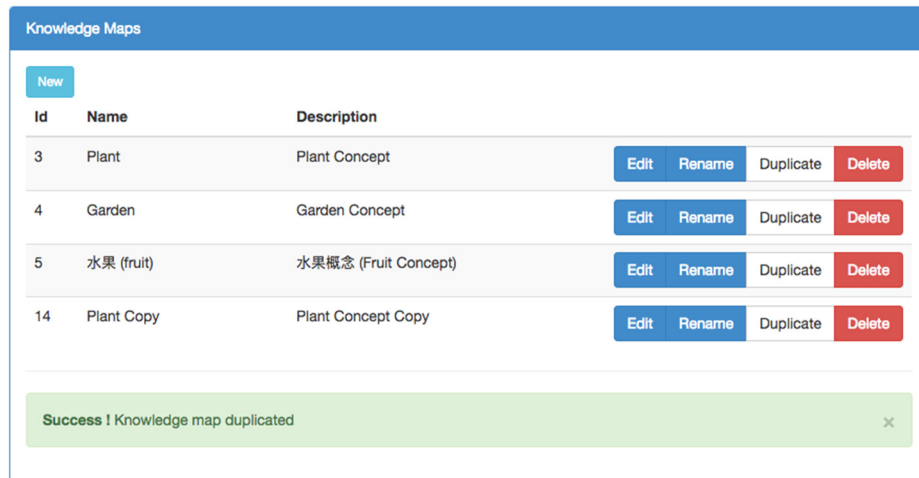
Id	Name	Description	Edit	Rename	Duplicate	Delete
3	Plant	Plant Concept	Edit	Rename	Duplicate	Delete
4	Garden	Garden Concept	Edit	Rename	Duplicate	Delete
5	水果 (fruit)	水果概念 (Fruit Concept)	Edit	Rename	Duplicate	Delete

**Duplicate**

**Name**

**Description**

Figure 1. Duplicate “Plant” Knowledge Map and click “Submit” button.



The screenshot shows the 'Knowledge Maps' interface after the duplication. The table now has four rows: 'Plant' (Id 3), 'Garden' (Id 4), '水果 (fruit)' (Id 5), and 'Plant Copy' (Id 14). Each row has four action buttons: 'Edit', 'Rename', 'Duplicate', and 'Delete'. Below the table, there is a green success message: 'Success ! Knowledge map duplicated' with a close button (X).

Id	Name	Description	Edit	Rename	Duplicate	Delete
3	Plant	Plant Concept	Edit	Rename	Duplicate	Delete
4	Garden	Garden Concept	Edit	Rename	Duplicate	Delete
5	水果 (fruit)	水果概念 (Fruit Concept)	Edit	Rename	Duplicate	Delete
14	Plant Copy	Plant Concept Copy	Edit	Rename	Duplicate	Delete

**Success ! Knowledge map duplicated** X

Figure 2. “Plant” Knowledge Map is duplicated.

Knowledge Maps

New

Id	Name	Description	
3	Plant	Plant Concept	<div>EditRenameDuplicateDelete</div>
4	Garden	Garden Concept	<div>EditRenameDuplicateDelete</div>
5	水果 (fruit)	水果概念 (Fruit Concept)	<div>EditRenameDuplicateDelete</div>
14	Plant Copy	Plant Concept Copy	<div>EditRenameDuplicateDelete</div>

Critical ! Are you sure you want to delete knowledge map (14) ?

Delete

Name

Plant Copy

Description

Plant Concept Copy

Submit

Cancel

Figure 3. Delete “Plant Copy” Knowledge Map.

Knowledge Maps

New

Id	Name	Description	
3	Plant	Plant Concept	<div>EditRenameDuplicateDelete</div>
4	Garden	Garden Concept	<div>EditRenameDuplicateDelete</div>
5	水果 (fruit)	水果概念 (Fruit Concept)	<div>EditRenameDuplicateDelete</div>

Success ! Knowledge map deleted

Figure 4. “Plant Copy” Knowledge Map is removed successfully.

- Next, I duplicated “Plant” Knowledge Map again. The default name for the duplicated Knowledge Map became “Plant Copy Copy” as Figure 5 shows. After I visited other pages and went back to duplicate “Plant” Knowledge Map, the default name of the duplicated Knowledge Map became “Plant Copy” again.

The screenshot shows a web interface titled "Knowledge Maps". At the top left is a "New" button. Below it is a table with three columns: "Id", "Name", and "Description". The table contains three rows of data. To the right of each row are four buttons: "Edit", "Rename", "Duplicate", and "Delete". Below the table is a "Duplicate" form. It has a "Name" field with the value "Plant Copy Copy" and a "Description" field with the value "Plant Concept Copy Copy". At the bottom of the form are "Submit" and "Cancel" buttons.

Id	Name	Description	Edit	Rename	Duplicate	Delete
3	Plant	Plant Concept				
4	Garden	Garden Concept				
5	水果 (fruit)	水果概念 (Fruit Concept)				

**Duplicate**

Name: Plant Copy Copy

Description: Plant Concept Copy Copy

Submit Cancel

Figure 5. Default name of the duplicated Knowledge Map.

- A better way to assign the default name of the duplicated Knowledge Map is to check the names of the Knowledge Map in the database before creating the default name. However, this is not a big problem in the system. If you don't have time to revise this UI, you can ignore this part.

## Unicode Problem

- I noticed that there is a Knowledge Map with Chinese characters in the list as Figure 6 shows. When I tried to create a new Knowledge Map with Chinese characters (Figure 6). It was successfully created in the beginning as Figure 7 shows.

The screenshot shows the same "Knowledge Maps" interface as Figure 5. The table has three rows. The third row has Chinese characters in the "Name" and "Description" columns. Below the table is a "Create New" form. It has a "Name" field with the value "植物 Plant" and a "Description" field with the value "植物概念 Plant Concept". At the bottom of the form are "Submit" and "Cancel" buttons.

Id	Name	Description	Edit	Rename	Duplicate	Delete
3	Plant	Plant Concept				
4	Garden	Garden Concept				
5	水果 (fruit)	水果概念 (Fruit Concept)				

**Create New**

Name: 植物 Plant

Description: 植物概念 Plant Concept

Submit Cancel

Figure 6. Creating a new Knowledge Map with Chinese characters.

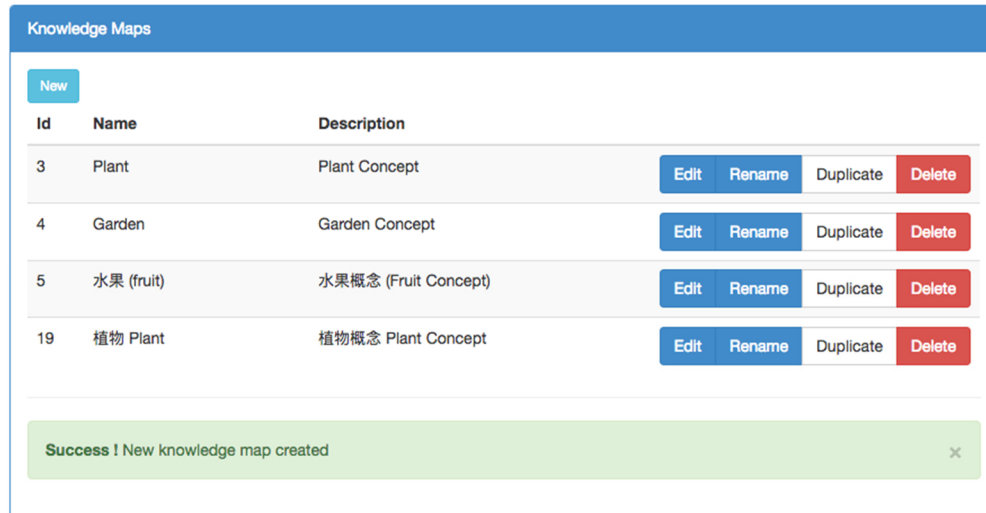


Figure 7. Chinese characters are displayed correctly after the Knowledge Map is created.

- However, I visited other pages and come back to Knowledge Map page again, the Chinese characters were not displayed properly as Figure 8 shows.

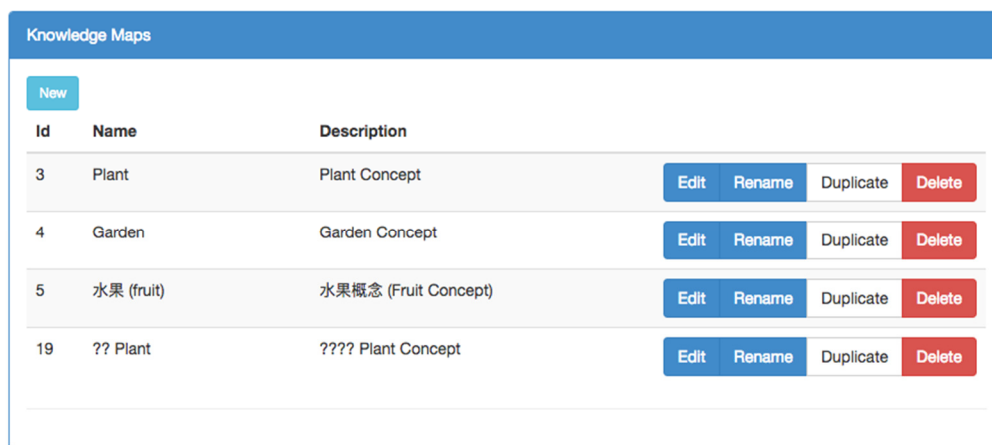


Figure 8. Chinese characters are displayed incorrectly after visiting other pages

- The Concept Hierarchy in Knowledge Map has the same problem as Figure 9 to Figure 11 show.

Knowledge Map (Plant Copy)

Concept Hierarchy

✚ Add

根 Root

Select Option

PartOf ▾

Plant Copy

Node Information

Node Name: Plant Copy

Parent Node:

Relation with parent:

Update | Delete

Concept Schema

New

Relation Name	Concept Name	Concept Action	Attribute Name	Concept Value

Figure 9. Creating node with Chinese character in Concept Hierarchy.

Knowledge Map (Plant Copy)

Concept Hierarchy

✚ Add

Select Node first and type

Select Option

PartOf ▾

▼ Plant Copy

根 Root

Node Information

Node Name: Plant Copy

Parent Node:

Relation with parent:

Update | Delete

Concept Schema

New

Relation Name	Concept Name	Concept Action	Attribute Name	Concept Value

Figure 10. Chinese character is displayed correctly in the beginning.

Knowledge Map (Plant Copy)

**Concept Hierarchy**

+ Add

Select Node first and type

Select Option: PartOf

▼ Plant Copy

? Root

**Node Information**

Node Name: ? Root

Parent Node: Plant Copy

Relation with parent: PartOf

Update | Delete

**Concept Schema**

New

Relation Name	Concept Name	Concept Action	Attribute Name	Concept Value

Figure 11. Chinese character is displayed incorrectly after visiting other pages

- In Concept Schema, I also created a new attribute with Chinese characters as Figure 12 shows. After I clicked “Submit” button, the system displayed the Chinese characters incorrectly as Figure 13 shows.

**Concept Schema**

New

Relation Name	Concept Name	Concept Action	Attribute Name	Concept Value

**Create New**

Relation Name: 能 Can

Concept Name: 水 Water

Concept Action: 吸收 Absorb

Attribute Name: Attribute Name

Attribute Value: Attribute Value

Submit Cancel

Figure 12. Create a new attribute with Chinese characters.

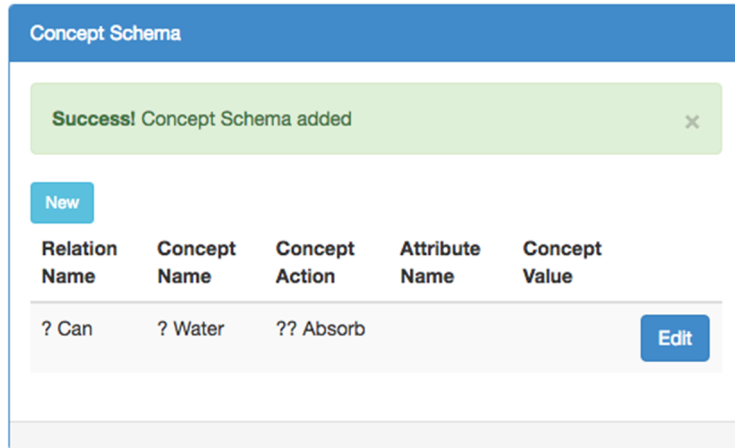


Figure 13. Chinese characters in the attributes are displayed incorrectly after it is created.

- This problem also happened in the Tests function. You can find a snapshot in Figure 14.

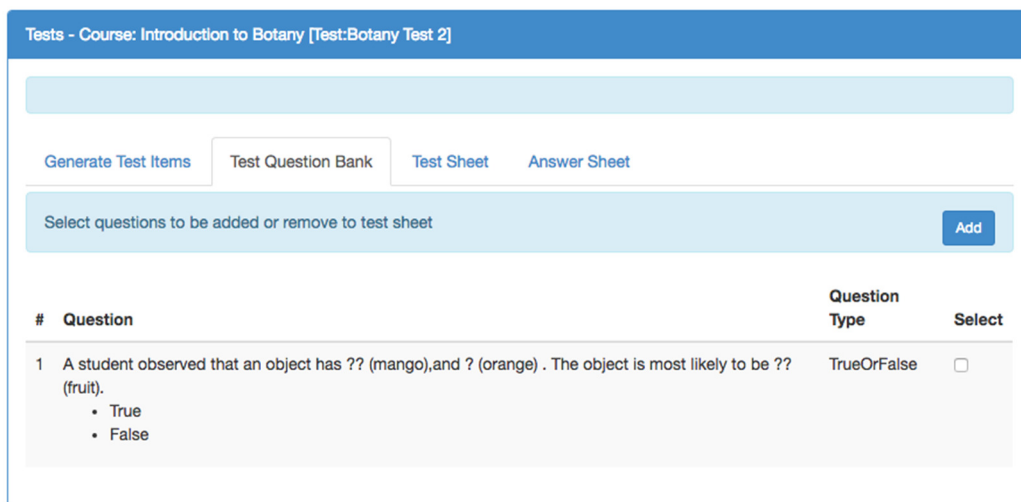


Figure 14. Chinese characters are displayed incorrectly in the Question Bank.

## Import Knowledge Map

I would like to test the “Import Knowledge Map” function, but there is no Knowledge Map for me to test the function. I also don’t know where I can set Knowledge Maps as public.

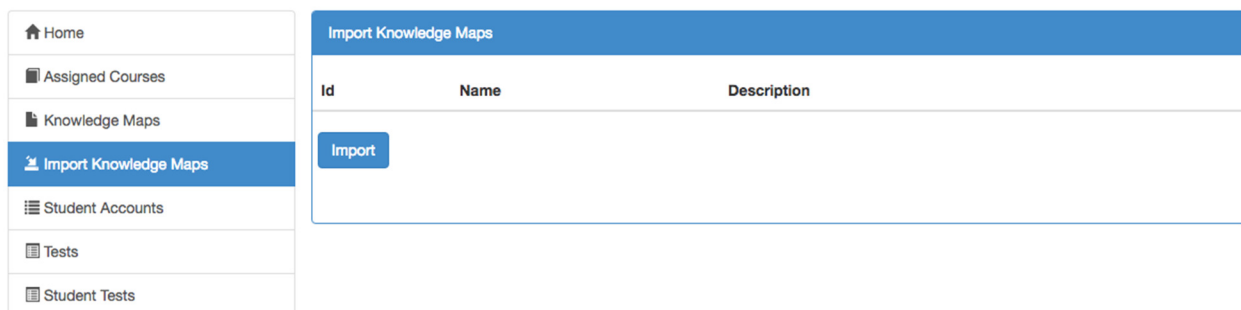
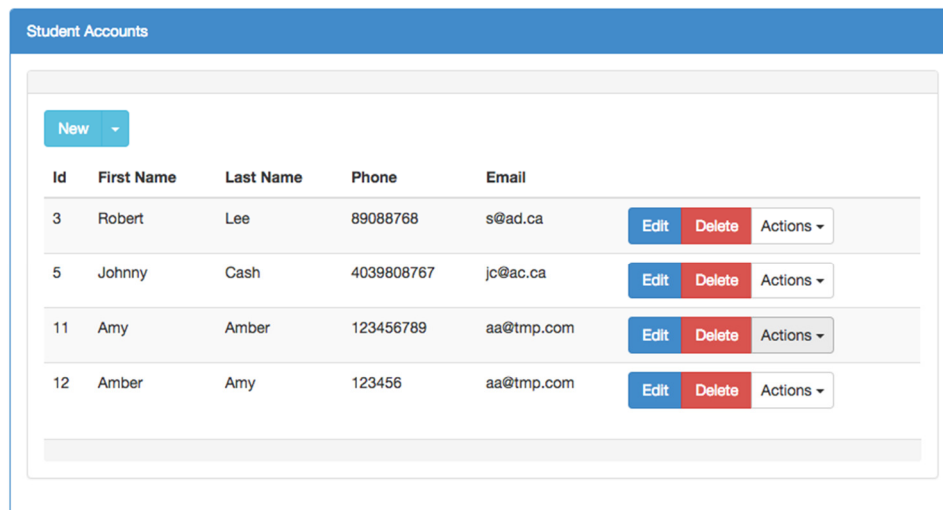


Figure 15. No other Knowledge Map displayed.

# Student Accounts

## Key in student account database

- I'm not sure this is a bug or not. When I adding new student accounts, two students can use same email address. In most of the online system, users' email addresses usually are unique or be the key in the database table. That make me have another problem. If a student taking two courses in the Online Test System, will he/she has two account? Or he/she will use the same account?



Student Accounts					
New ▾					
Id	First Name	Last Name	Phone	Email	
3	Robert	Lee	89088768	s@ad.ca	<a href="#">Edit</a> <a href="#">Delete</a> Actions ▾
5	Johnny	Cash	4039808767	jc@ac.ca	<a href="#">Edit</a> <a href="#">Delete</a> Actions ▾
11	Amy	Amber	123456789	aa@tmp.com	<a href="#">Edit</a> <a href="#">Delete</a> Actions ▾
12	Amber	Amy	123456	aa@tmp.com	<a href="#">Edit</a> <a href="#">Delete</a> Actions ▾

Figure 16. Student account list with duplicated email address

## Password

- When I clicked “Reset Password” button in “Action”, the system showed an error message as Figure 17 shows.
- I also have no idea how the random passwords are generated. Can teachers find the random password in the system? Or the students will receive the generated password in their mailbox?



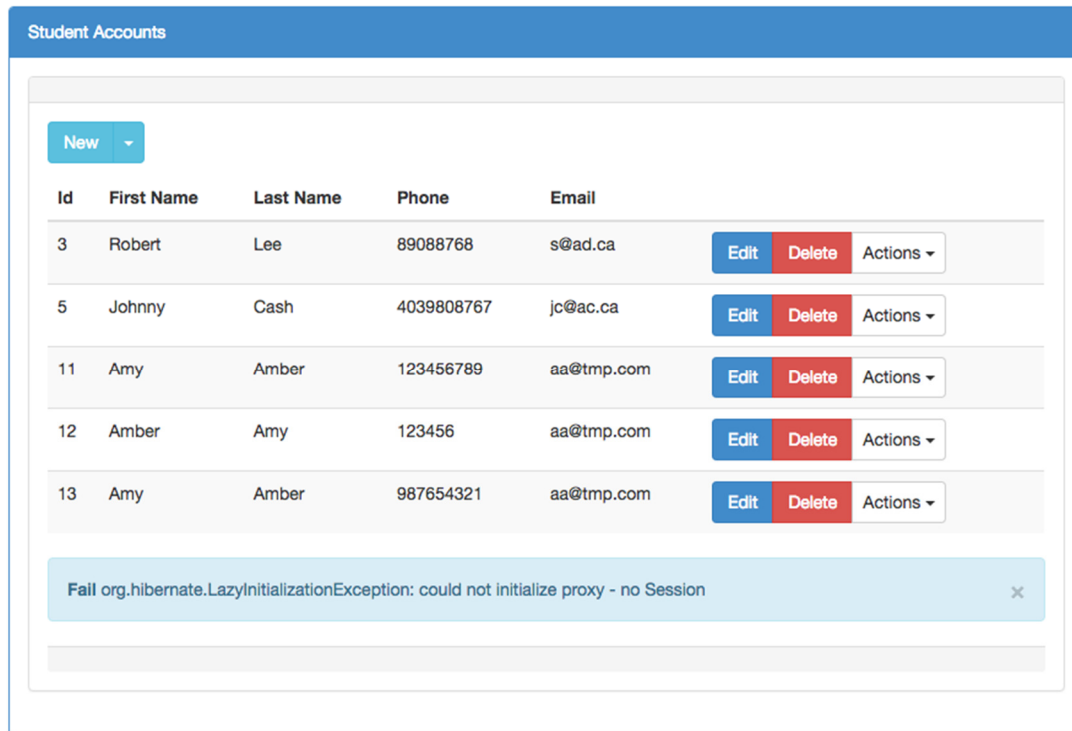


Figure 17. Error message of clicking “Reset Password” button.

## Student Account - Batch

- I don't understand what's the difference between batch creating student accounts and the regular one. It looked pretty similar. I remember what Dr. Chang teach other students building the batch account creation function before, but this function in this system looked different then what Dr. Chang said before.

## Tests

### Start Time and End Time

- As Figure 18 shows, I can set the test start time later than the test end time.
- In some cases, teachers want to create a self-assessment test and allow students to finish the tests in a period time. However, the test period in the system can only be in one day. If I would like to give student three days to finish the test, the system will not allow me to do that. Therefore, the test start time and end time should have independent date information.

Course Tests

New

Name	Marks	Start Date	Start Time	End Time	Activated	
Botany Test	10	4/27/2016	10:45 AM	9:45 AM	No	<div>Edit</div> <div>Delete</div> <div>Actions ▾</div>

Success! Test Created

Figure 18. Test start time is later than test end time.

## Select All and Deselect all

- In the Question Bank and Test Sheet, the system should support “Select All” and “Deselect All” buttons

Tests - Course: Introduction to Botany [Test:Botany Test]

Generate Test Items

Test Question Bank

Test Sheet

Answer Sheet

Select questions to be added or remove to test sheet

Add

#	Question	Question Type	Select
1	Plant has root <ul style="list-style-type: none"> <li>True</li> <li>False</li> </ul>	TrueOrFalse	<input checked="" type="checkbox"/>
2	Plant has steam <ul style="list-style-type: none"> <li>True</li> <li>False</li> </ul>	TrueOrFalse	<input checked="" type="checkbox"/>
3	Plant has leaf <ul style="list-style-type: none"> <li>True</li> <li>False</li> </ul>	TrueOrFalse	<input checked="" type="checkbox"/>

Figure 19. Snapshot of Question Bank.

Tests - Course: Introduction to Botany [Test:Botany Test]

Generate Test Items   Test Question Bank   **Test Sheet**   Answer Sheet

Select correct answer(s) and click submit to create answer sheet Submit Remove Selected

#	Select	Mark	Question	Options
1	<input type="checkbox"/>	1.0	Plant has root	<input type="button" value="true"/> <input type="button" value="false"/>
2	<input type="checkbox"/>	1.0	Plant has steam	<input type="button" value="true"/> <input type="button" value="false"/>
3	<input type="checkbox"/>	1.0	Plant has leaf	<input type="button" value="true"/> <input type="button" value="false"/>

Figure 20. Snapshot of Test Sheet

## Explanation for each function in Tests

- It is pretty hard to understand what the usage of “Test Sheet” and “Answer Sheet” are. You should put a description of what these functions for on the screen.

I also need a student account to test the “Test” function if you already finish that part.