
Thutong Site Learning Center User Manual

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Contents

1	Product Overview	1
2	System Configuration	1
3	Installation	1
4	Getting Started	1
4.1	The student	2
4.2	The Expert Consultant	2
4.3	The Marketing Consultant	2
4.4	The Administrator	2
5	Using the System	3
5.1	Login	3
5.2	Search	3
5.3	Viewing course content	3
5.4	Taking a quiz	3
6	Troubleshooting	4
7	Additional Information and Figures	4

1 Product Overview

The Thutong Site Learning Center is an online system intended for high school students. It is aimed at providing students with online material to catch up on any content that they might have missed in class or did not comprehend during class. It is also aimed at providing teachers a way of uploading course content to the system for students to go through, and provide quizzes for the students to test their knowledge after the completion of a topic.

2 System Configuration

The Thutong Site Learning Center system need not be installed on any any digital device, it is available online. The system can be accessed through desktop computers and mobile devices and users will need a network connection in order to have access to it.

3 Installation

The system does not need to be installed as mentioned above, the user need only have a digital device with an internet connection and a web browser.

4 Getting Started

The Thutong system is aimed at improving South Africa's Science ratings, this means that it is intended to be used by every student in South Africa, thus it is free and no license is needed to use it.

There are 4 types of users in the Thutong system, these are:

- Students
- Expert Consultants(Teachers)
- Marketing Consultants
- Administrator

THUTONG Learning platform

About Services Contact

Login Page

LOG IN TO SEE CONTENT

EMAIL ADDRESS:
john.doe@gmail.com

PASSWORD:

Log In

He who learns but does not think, is lost! He who thinks but does not learn is in great danger.
Confucius

Apple iPad Air
See the unique ways people are using iPad around the world.

REGISTER

FIRST NAME:
John

LAST NAME:
Doe

EMAIL ADDRESS:
john.doe@gmail.com

STATUS EXAMPLE:
0-STUD 1-ADMIN 2-CONSULT 3-MARKETING

CREATE PASSWORD:

CONFIRM PASSWORD:

Activate Windows

Figure 1: User Registration and Login.

4.1 The student

The first user of the system is the student. This user needs to login with either their google, facebook or email account in order to access any content from the system. The student also needs to be able to search for a specific subject and be able to view content within that subject. Only one of the login options is shown above, which is registration before login

4.2 The Expert Consultant

The Expert consultant needs to be able to, besides logging in, add course content intended for students on the system. They should also be able to create quizzes for students and be able to remove all of the above-mentioned entities. Figure 1 also shows on the right pane, the expert consultants registration, which will need to be validated by the administrator.

4.3 The Marketing Consultant

This user needs to be able to add, remove and update marketing content on the system like vacancies, advertisements and donation request.

4.4 The Administrator

Also known as the superuser, this user will have all the powers of all the users, and will also be responsible for the addition, validation and removal

of Expert and Marketing consultant accounts since these two users may be outsourced throughout the lifetime of the system.

5 Using the System

This section discusses the use cases of the system in detail, please refer to the subsections below for each use case by the various users of the system.

5.1 Login

From 4.1, Figure 1 above, the user enters their credentials and is welcomed by the home page which is Figure 2. This is a generic use case for all users and all users are welcomed by this page.

5.2 Search

To search for a specific course or subject admin related content, the user clicks on the button on right written "search" in bold red text, they will then be taken to Figure 3 where they enter whatever topic they wish to search for and select the subject area, and the result will be displayed right opposite the search bar as seen on Figure 4.

5.3 Viewing course content

Viewing a document, course notes or videos for all users is similar. Figure 5 displays the Biology course notes and a video that may be played. The video can simply be viewed by clicking on the video.

5.4 Taking a quiz

Taking a quiz after reading up on a particular subject can be achieved by clicking on the particular quiz they would like to take, for instance clicking on "Quiz1 Types of Reactions" link at the bottom of Figure 5 and this will take you to the page depicted by Figure 6. The user will then take a quiz by selecting the answers they deem correct and thereafter click submit answers button at the end of the quiz. Their result will then be displayed right below the previously mentioned button in red.

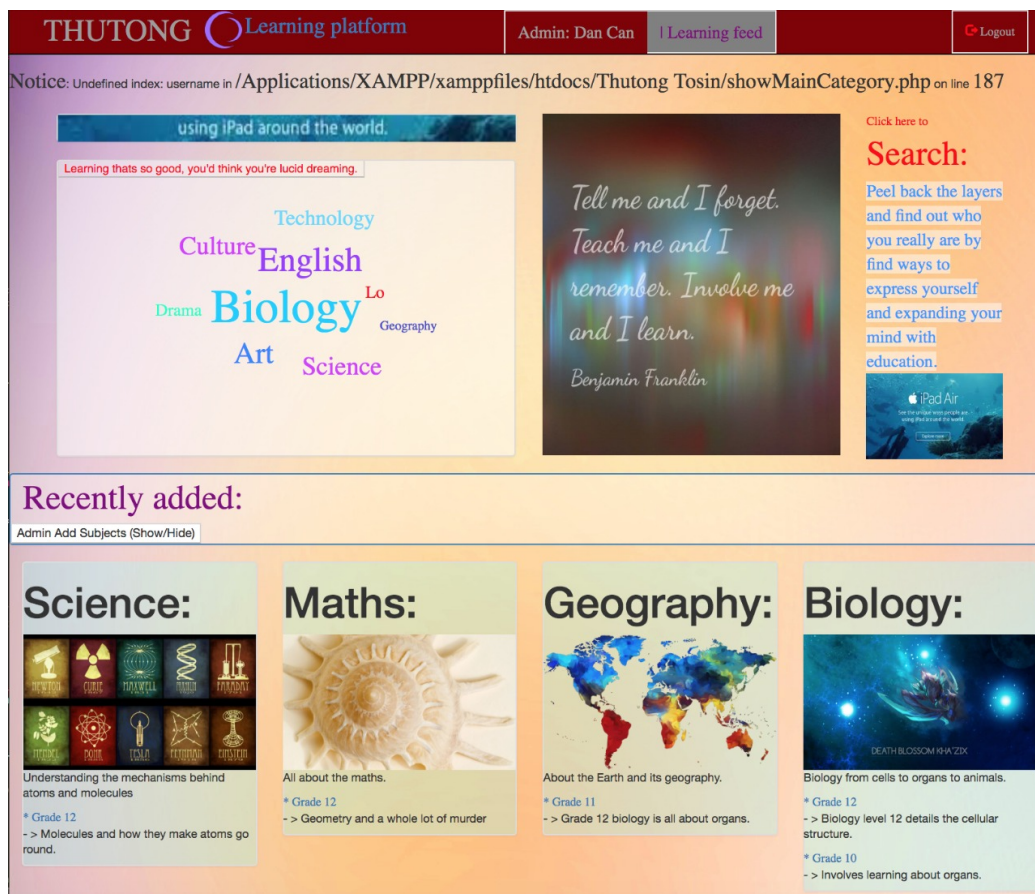


Figure 2: home page

6 Troubleshooting

This section will be implemented at a later stage of the project.

7 Additional Information and Figures

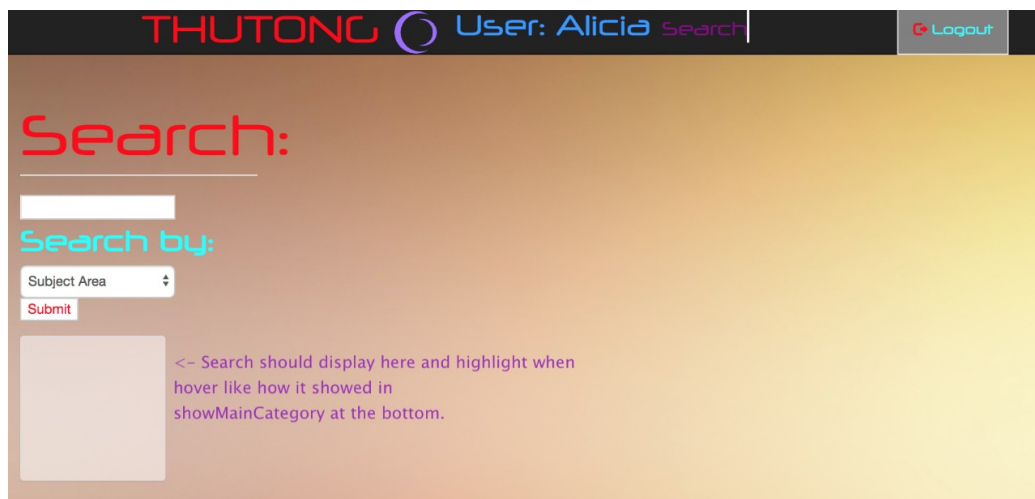


Figure 3: Search

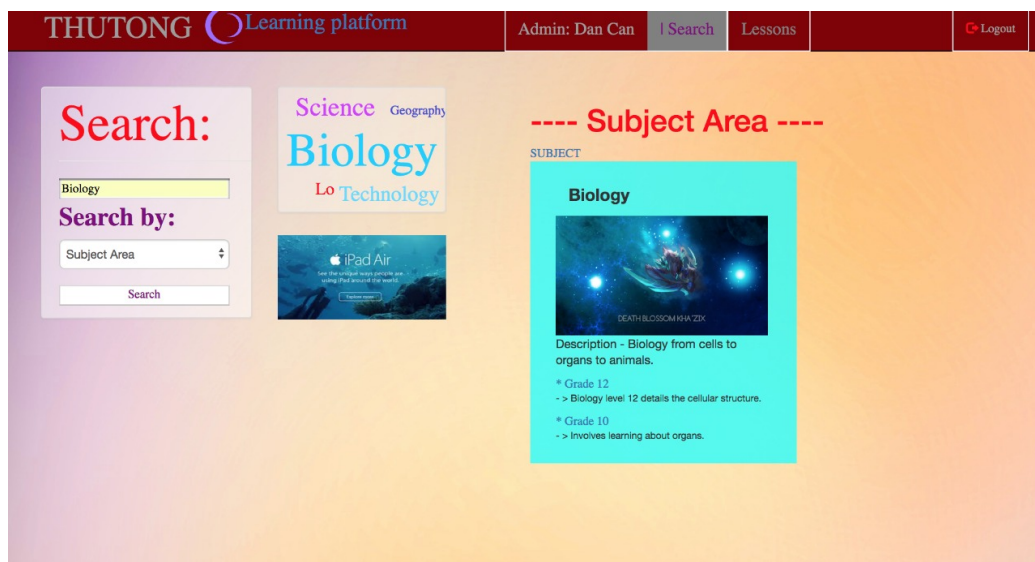


Figure 4: Search results

THUTONG

Learning platform

Admin: Dan Can
Learning feed
Lessons
Logout

Subject -> Science

Grade-> 12

Topic -> Chemistry

Lesson -> Displacement Reactions 1 of 2

Description

The most important, and most exciting, thing about science and scientific theories is that they are not fixed. Hypotheses are formed and carefully tested, leading to scientific theories that explain those observations and predict results. The results are not made to fit the hypotheses. If new information comes to light with the use of better equipment, or the results of other experiments, this new information is used to improve and expand current theories. If a theory is found to have been incorrect it is changed to fit this new information. The data should never be made to fit the theory, if the data does not fit the theory then the theory is reworked or discarded. Although this changing of opinion is often taken for inconsistency, it is this very willingness to adapt that makes science useful, and allows new discoveries to be made.

Video

Displacement Reactions - Part I

	Change in solution	Change in metal
Cu	None	None
Zn	Lighter	Red Brown coating
Fe	Lighter	Red brown coating
Pb	Lighter	Red brown coating

13:59

How to understand Displacement Reaction

The theory of gravity has been slowly developing since the beginning of the 16th century. Galileo Galilei is credited with some of the earliest work. At the time it was widely believed that heavier objects accelerated faster toward the earth than light objects did. Galileo had a hypothesis that this was not true, and performed experiments to prove this. Galileo's work allowed Sir Isaac Newton to hypothesise not only a theory of gravity on earth, but that gravity is what held the planets in their orbits. Newton's theory was used by John Couch Adams and Urbain Le Verrier to predict the planet Neptune in the solar system and this prediction was proved experimentally when Neptune was discovered by Johann Gottfried Galle.

Lesson Resources

PDF -> Lesson downloads

[Types_of_reactions.pdf](#)
[Number_of_reactions.pdf](#)
[Calculating_of_reactions.pdf](#)
[Displacement.pdf](#)

PDF -> Exercises

[Ex1_Types_of_reactions.pdf](#)
[Ex2_TNumber_of_reactions.pdf](#)
[Ex3_TCalculating_of_reactions.pdf](#)
[Ex4_TDisplacement.pdf](#)

Click here to

Search:

[Peel back the layers and find out who you really are by find ways to express yourself and expanding your mind with education.](#)




Figure 5: Take a lesson

localhost Quiz Page

THUTONG Learning platform

Admin: Dan Can Learning feed Lessons Logout

Subject -> Science
Grade -> 12
Topic -> Chemistry
Quiz -> Chemistry Grade 12

Description
The most important, and most nts, this new informationr inconsistency, it is this very willingness to adapt that makes science useful, and allows new discoveries to be made.

Question 1

$$\text{CH}_3\text{C}(=\text{O})\text{OH} + \text{OH}^- \rightleftharpoons \text{CH}_3\text{C}(=\text{O})\text{O}^- + \text{HOH}$$

A acetic acid B hydroxide C acetate D water

Based on the follwong pictures which reaction is correct?

☐ A
☐ B
☐ C
☐ D

Question 2

$$\text{CH}_3\text{C}(=\text{O})\text{OH} + \text{OH}^- \rightleftharpoons \text{CH}_3\text{C}(=\text{O})\text{O}^- + \text{HOH}$$

A acetic acid B hydroxide C acetate D water

Based on the follwong pictures which reaction is correct?

☐ Male
☐ Female
☐ Other

Question 3

Based on the follwong pictures which reaction is correct bfkqwbjfqw?

☐ A
☐ B
☐ C
☐ D

Question 4

Based on the follwong pictures which reaction is correct qwjfw?

☐ Male
☐ Female
☐ Other

Submit Results

Quiz Results
8 / 10

Click here to Search:
[Peel back the layers and find out who you really are by find ways to express yourself and expanding your mind with education.](#)




Figure 6: Taking a Quiz