

Exams Questions Authoring using TestLead CBT

23rd June, 2016

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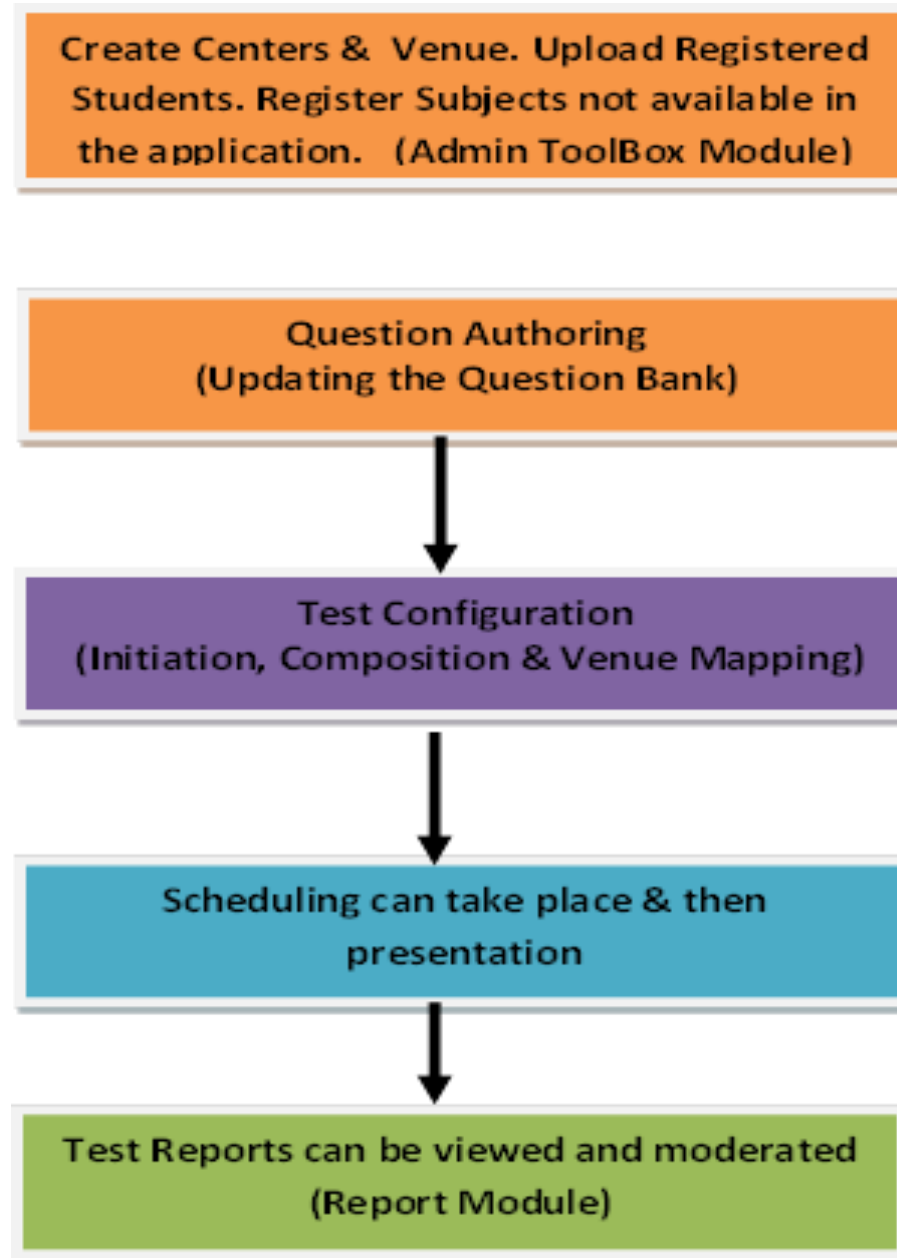
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Introduction

- TestLEAD CBT is a Computer Based Testing software designed by Ahmadu Bello University Programmers for the main purpose of delivery test/exam to candidate that are eligible to take such test.
- It was used for the past three years in administering ABU Post-UTME CBT, SBRS Screening, COSC101 and some other Science & Engineering courses.
- Before the test is presented to the prospective candidate some essential settings must be made.

The chart below describes all that must be done before a test can be presented to a successfully scheduled candidate.



CBT Users/Privileges

User Type	Privileges
Super Admin.	<ul style="list-style-type: none">• Creating users (Test Admin, Admin and PC Registrars)• View Reports(Test Results)
Test Admin.	<ul style="list-style-type: none">• Can create users like Test Composer, Test invigilators• Can configure Test ((ie. Set test date, Subject, Venue, Duration of Test, Display method, Schedule students etc)• View Reports(Test Results)
Admin.	<ul style="list-style-type: none">• Admin members have only the privilege of viewing test reports. eg Exam Officer for Input to Exams logic
Invigilators	<ul style="list-style-type: none">• Can be created by Test admin.• They have the responsibility of restoring logged out candidate or increase candidate's time which may be due to genuine technical problem.
Test Compositors	<ul style="list-style-type: none">• Can be created by Test admin.• The main role is to compose Test Subject (Creating questions to be answered by students; topics, section or all and display no of questions at a time)
Test Reviewers/Moderator	<ul style="list-style-type: none">• Can be done by Test admin, Composer and the test priviewer after composition

Test Administrator

Test Administrators are created by the Super Admin. They have the role of creating other users like : Test Compositors, PC Registrars and Test Invigilators, they can also configure new test and view test reports. So, as soon as a Test administrator logs-in through the Login interface, the platform in the next page appears, which enables him to carry out all the functionalities that appears on the interface.



AHMADU BELLO UNIVERSITY COMPUTER BASED TEST SOFTWARE



Fig. 2.9 Admin Interface

Accessing the CBT portal

- Use <https://cbt.abu.edu.ng/login.php>
- Request for an Account by clicking on ***Request an Account*** link on the login page
- Then the Super Admin. assigns User privilege
- Or the Super Admin creates users with the required information provided by the users

Accessing the CBT portal (cont..)

Please Login to use CBT

UserName

Password

Login

[Request an account](#) | [Forgot Password?](#)

Requesting for account



TestLEAD™ CBT

COMPUTER-BASED TESTING SOFTWARE

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Sign Up

Sign Up Form

Username

Password

Display Name

Email

Personnel No.

Question

Answer



Accessing the CBT portal (cont..)

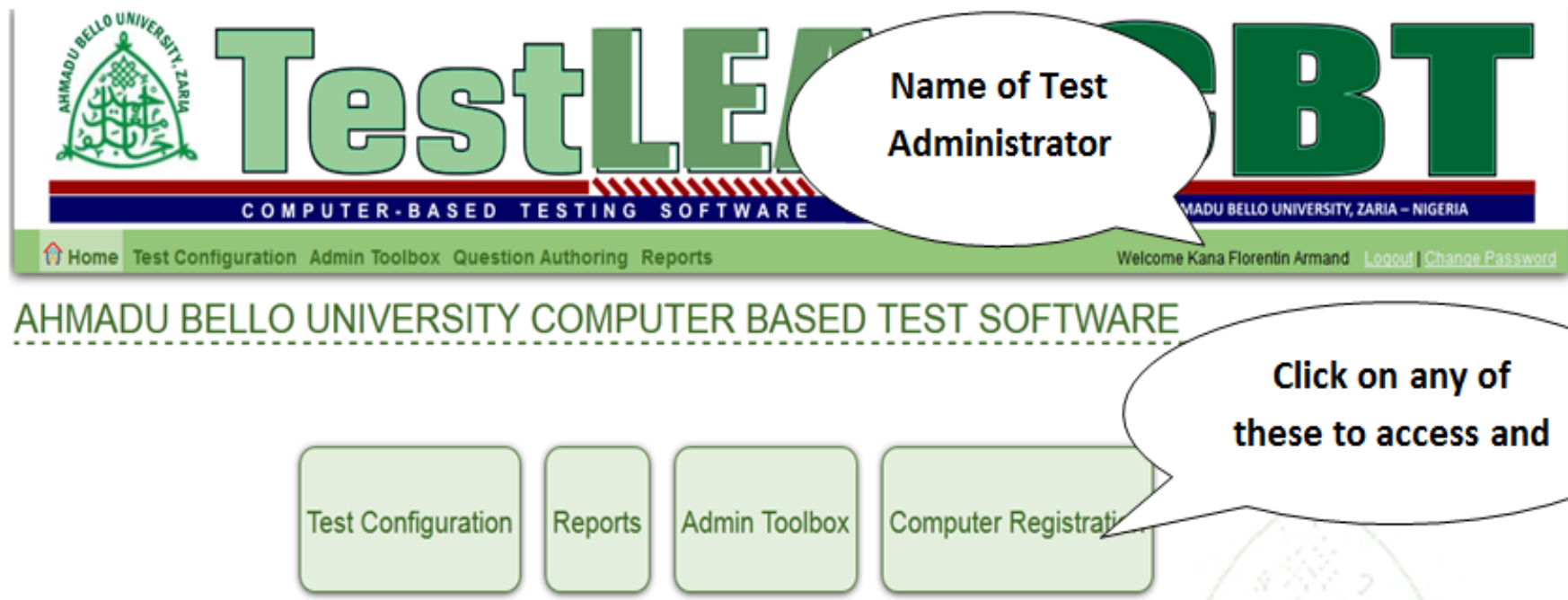


Fig. 2.9 Admin Interface

Question Authoring

This is one of the privileges of Test admin. and is the process of typing and formatting Multiple Choice Questions into the CBT application using some special Tags.

Question Authoring (cont..)

A Test Composer can also author questions like the Test Administrator. The Test Admin./Composer will use the Question Authoring Module. This module was designed and implemented on the assumption that question would have been prepared by a course instructor/ examiner or test compositor in a pre-defined format (rule) as explained in the next page:

Question Authoring (cont..)

^^All of the following are input devices except;

@@The Keyboard

@@The scanner

@@The Laser printer~

@@The Light pen

Question Authoring (cont..)

Note:

- Every new question must begin with this sign (^).
- Each option must begin with the sign (@ @).
- The right answer should be marked with the sign (~) at the end.

Note also; the initial example given is raw 'text' sample of Multiple Choice Questions. The others may be Equations (formulae) or Image in which case you may use the Authoring link.

To access the question authoring module, click on the link Question Authoring on the horizontal navigation bar after logging in.

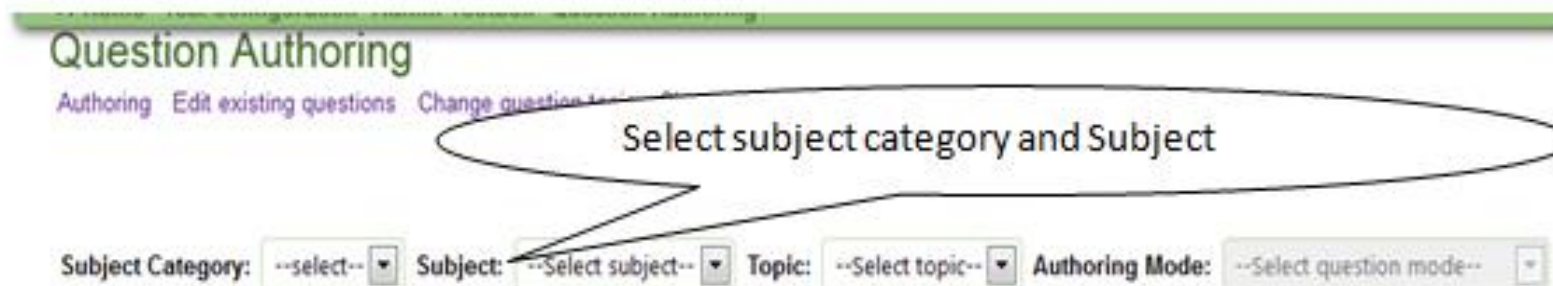


Click on this to access
Question Authoring Module

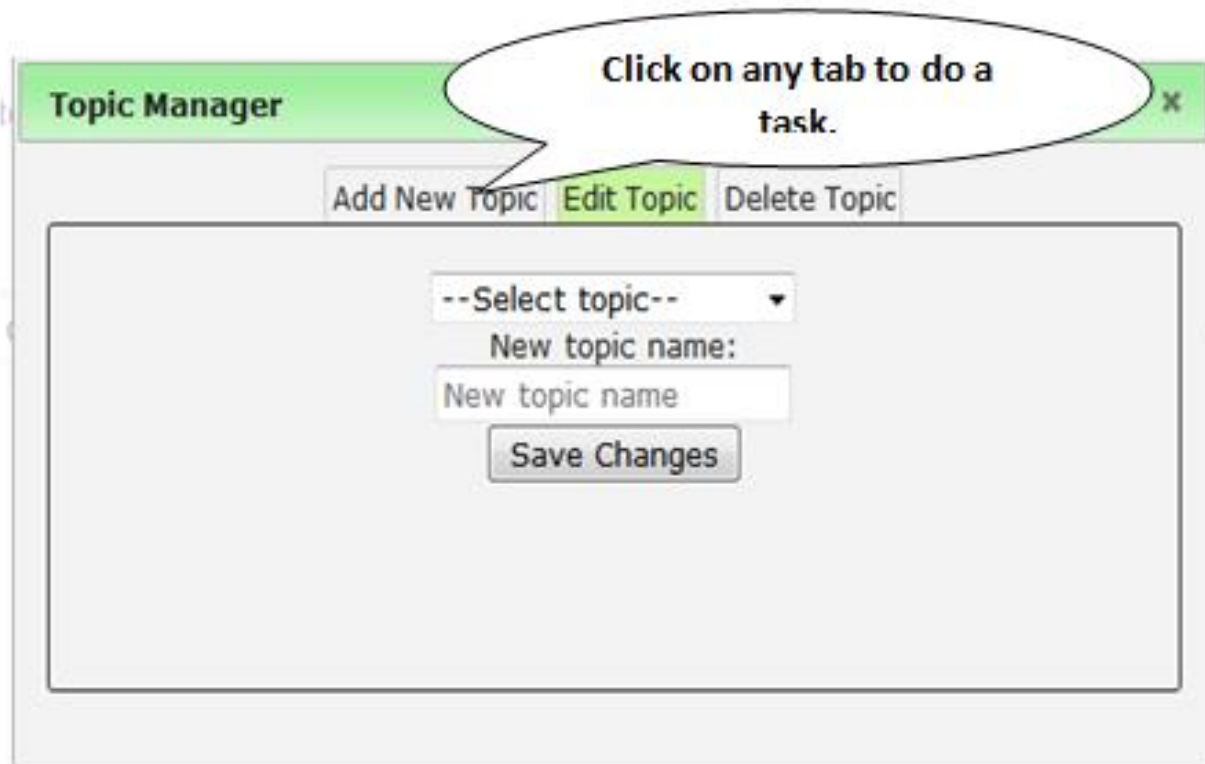
The Question Authoring Module will open will four(4) links of functionality as shown below:



Authoring: This link is use to register new questions into the question bank. Click on this link to have access to the platform for authoring new questions. The screen shot below will appear.



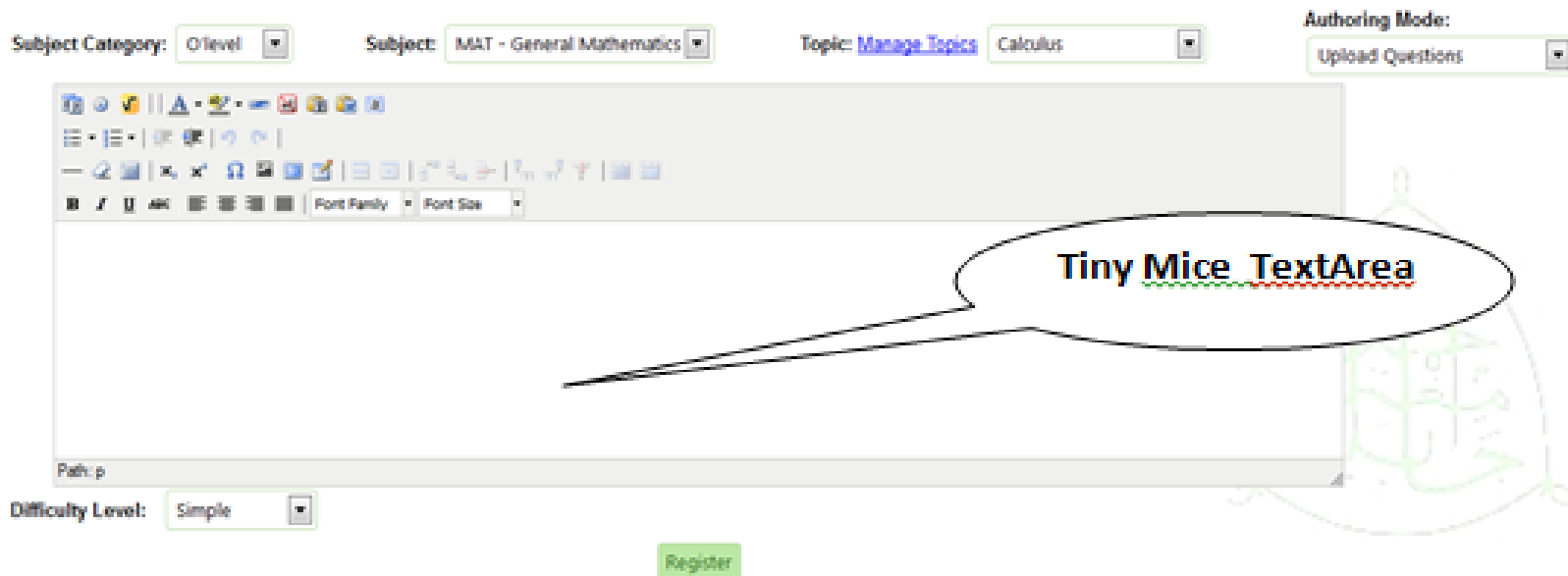
- a) Select subject category- which says whether a subject is an O' level course, Regular Course (i.e. either undergraduate, postgraduate, diploma or any other course within the university) or SBRS courses.
 - b) Select the appropriate subject you want to author questions for. A link will appear beside or above the topic selection field (i.e. Manage Topics).
 - c) Select the appropriate topic you want to author question for. If such topic does not exist, go through the link '**Manage Topic**' to access the **Topic Manager** which enables you to add a new topic of your choice or edit existing topic name or delete entire a topic from a particular subject category.
-



Manage Topic Dialog

d) After the successful selection of the appropriate topic, the authoring mode field will be enabled for you to select (i.e. either Bulk Upload or Entering Question one by one).

1. On-clicking of the bulk upload option, the platform below appears..



Bulk Question Authoring with TinyMice

- i. Copy pre-formatted questions as described above and paste in the TinyMice text area, then select the difficulty level or leave as simple for all questions.
- ii. Finally, click on register to upload and save your question into the question bank.

2. If the choice of 'Entering Question one by one' is taken, the screenshot below appears

Enter a Question here ...



Enter Options here..

The image shows a software interface for creating multiple-choice questions. It features two text input fields, each with a rich text toolbar above it. The top toolbar includes icons for undo, redo, bold, italic, underline, text color, background color, bulleted list, numbered list, link, unlink, insert image, and insert table. The bottom toolbar includes icons for undo, redo, bold, italic, underline, text color, background color, bulleted list, numbered list, link, unlink, insert image, and insert table. Below the top text field is a label 'Path: p' and a button with a checkmark icon and the text 'Set this option as the correct answer'. Below the bottom text field is a label 'Path: n'. At the bottom of the interface, there is a 'Difficulty Level' dropdown menu currently set to 'Simple' and a green 'Register' button. Callouts provide instructions: 'Enter First option and continue in this pattern' points to the top text field; 'Click to set as right option' points to the checkmark button; 'Select Difficulty level (Simple as default)' points to the dropdown menu; and 'Click to Register' points to the Register button.

Enter First option and continue in this pattern

Set this option as the correct answer

Click to set as right option

Path: p

Path: n

Difficulty Level: Simple

Register

Click to Register

Fig. 2.17 Single Question Authoring Interface

Note: the number of options is not fixed.

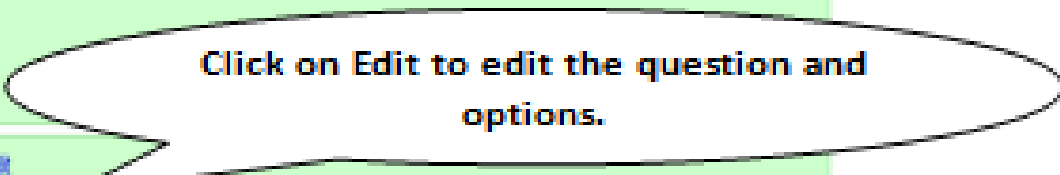
Edit Existing Question: Existing questions can be edited. to do this, click on the link provided to have access to the edit existing question platform. Select the appropriate field options that matches the criteria for your question search, then click on load to load the question. A screen shot of what you should expect is as shown below.

Subject Category: O'Level Subject: MAT - General Mathematics Topic: [Manage Topics](#) Calculus Difficulty Level: Simple

The Opposite of Integration is?
[Edit](#)

The Opposite of Integration is...
[Edit](#)

In calculus, x is normally the ... [Edit](#)



Question Editing Platform

On-clicking the edit link, a new window appears that enables you to edit the question, options, topic, difficulty level and also tell if the question will replace the existing one or an entirely new question. Click on apply to save and complete operation.

Change Question Topic: The topic assign to a question or group of questions can be changed using this [link](#). To do this, click on the link provided to have access to the change question topic platform. Select the appropriate field [options that matches](#) the criteria for your question search, then click on load to load the question. A screen shot of what you should expect is as shown below.

Subject Category: O'Level Subject: MAT - General Mathematics Topic: [Manage Topics](#) Calculus Difficulty Level: All

New topic to assign selected questions: Calculus **Select New topic Name**

$\sqrt{56}$ CBT is a computer based testing application. $\begin{pmatrix} 3 & 6 \\ 6 & 8 \end{pmatrix}$

The Opposite of Integration is?

The Opposite of Integration is...

In calculus, x is normally the ...

Click to tick all question you want to change topic for.

Question Authoring Manage Topic Platform

Click on apply to save and complete operation.

Change Difficulty Level: The difficulty level assign to a question or group of questions can be changed using this link. To do this, click on the link provided to have access to the change difficulty level platform. Select the appropriate field options that matches the criteria for your question search, then click on load to load the question. A screen shot of what you should expect is as shown below.

Subject Category: O'Level Subject: MAT - General Mathematics Test Items Difficulty Level: Simple Load

Difficulty level to assign to selected questions: Simple

The Opposite of Integration is?

The Opposite of Integration is...

In calculus, x is normally the ...

Apply

Select the new difficulty level

Click to select questions whose difficulty level will be changed

Question Authoring Manage Difficulty Level Platform

Click on apply to save and complete operation.

Reports

- You can Preview and print questions authored by Clicking ***Question Authoring*** → ***preview questions*** links
- You can preview and print results by clicking on ***Reports*** link

Security

- Security of the Questions guaranteed
- Only Registered computers can be used
- Lecturer can submit a 'Text' based questions 30 minutes or less before the exams
- Screening students before entering the CBT Hall
- Students must use login credentials at the point of entry – beginning the test/exam
- Pictures of student to appear on his/her exam page
- Attendance Register be provided
- Only Registered students can take the Exams

Conclusion – Contact Staff

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Thank you.