

# Test case

## Test Case 1: Dropdown Interaction and Quiz Navigation

<b>Test Type:</b>	<b>Execution Type:</b>
Functional	Manual
<b>Objective:</b>  To verify that the topic and context dropdown menus function correctly and ensure that the user is redirected to the quiz interface after clicking the 'Send' button.	
<b>Setup:</b>  The student has access to the Question Generator page.	
<b>Pre-Conditions:</b> <ul style="list-style-type: none"><li>• The student is on the Question Generator page.</li><li>• The dropdown menus are visible.</li></ul>	
<b>Notes:</b>  <b>Steps:</b> <ul style="list-style-type: none"><li>• Navigate to the Question Generator page.</li><li>• Click on the topic dropdown menu and select a topic.</li><li>• Click on the context dropdown menu and select a context.</li><li>• Click the send button.</li><li>• Verify that the dropdown menus expand and collapse correctly.</li><li>• Verify that the selected options in the dropdowns are highlighted.</li><li>• Verify that clicking the send button redirects the user to the correct quiz interface.</li></ul>	
<b>Time constraint:</b>  Minimum: 5 min Maximum: 10 min	

## Test case 2: Page Load Performance

<b>Test Type:</b>	<b>Execution Type:</b>
Performance	Manual
<b>Objective:</b>  To ensure that the site loads quickly and the content is accessible without delay.	
<b>Setup:</b>  Ensure the web application is hosted on a server with adequate resources.	
<b>Pre-Conditions:</b>  The page to be tested has not been cached by the browser.	
<b>Notes:</b>	

Test on different devices and browsers to account for variability in load times.

**Steps:**

- Open the browser.
- Access the web application and attempt to load any page.
- Measure the time taken from the moment the page begins to load until all content is fully displayed.
- Repeat the test across different pages.
- Verify that the page content loads within an acceptable time.

**Time constraint:**

Minimum: 2 seconds

Maximum: 5 seconds

**Test case 3: Visual Consistency**

<b>Test Type:</b>	<b>Execution Type:</b>
UI	Manual
<b>Objective:</b>	
To verify that the site maintains a consistent visual style.	
<b>Setup:</b>	
Access design specifications or style guides for reference.	
<b>Pre-Conditions:</b>	
The page is fully loaded.	
<b>Notes:</b>	
Test on different devices and screen sizes to ensure responsive design consistency.	
<b>Steps:</b>	
<ul style="list-style-type: none"><li>• Open the web application.</li><li>• Navigate to any page.</li><li>• Visually inspect the page for consistency in fonts, colours, button styles, and layout.</li><li>• Compare the visual elements against the design specifications.</li><li>• Repeat the inspection on multiple pages.</li><li>• Ensure that there are no visual discrepancies across different pages of the site.</li></ul>	
<b>Time constraint:</b>	
Minimum: 5 minutes per page	
Maximum: 10 minutes per page	

**Test Case 4: Admin Related Functions**

<b>Test Type:</b>	<b>Execution Type:</b>
Functional, UI/UX	Manual
<b>Objective:</b>	

To verify that the admin can view the correctness rates for different topics and the number of exercises completed.

**Setup:**

The admin has a registered profile in the system.

**Pre-Conditions:**

The admin profile page is accessible from the main navigation.

**Notes:**

**Steps:**

1. Log in to the web application as an admin.
2. Navigate to the admin profile section.
3. Verify that the profile displays the overall correctness rate across different topics.
4. Verify that the number of exercises completed for each topic is correct.
5. Click on each topic.
6. Verify that every student's total attempts, accuracy, time in total displayed under each topic.
7. Navigate to the home page.
8. Navigate to the admin profile.
9. Verify that the admin still remains logged in.

**Time constraint:**

Minimum: 5 minutes

Maximum: 10 minutes