Testing Document

Application Name:
Application Type:
Platform Availability:

App Description

The Digital Learning Resources Platform is a comprehensive educational tool created by our working group for school students. The platform is made to offer a wealth of reference materials covering the three main subjects of technology, math, and art to students, tutors, and administrators. The main objective of the application is to provide students with a useful tool to improve their comprehension of these topics by providing carefully selected articles on significant individuals, artwork, occasions, and ideas.

Key Features

- 1. Subject Specific Content
- 2. User Access Levels
- 3. Browse Articles by various methods(filters)

Features to be tested

- Browse Articles by category
- Browse Articles by keyword in the title

It is essential to verify the overall functionality, usability, and user satisfaction of the Digital Learning Resources Platform by testing the features that let users view articles by category and keyword in the title. These features have a direct impact on the fundamental user experience by giving administrators, tutors, and students effective ways to access essential course materials.

Students may explore subjects in an organized way with the option to browse articles by category, which makes for enhanced learning opportunities. In order to ensure that users can easily navigate through the categorized articles and that the system handles valid and invalid category selections appropriately, testing this feature is crucial. Inadequate testing in this domain may result in navigational mistakes that prevent students from accessing the necessary instructional materials, hence impeding their educational experience.

The ability to search articles by keywords in the title is essential for allowing users to conduct focused searches and find content that suits their interests. Inadequate testing could cause the system to return false positives for searches or fail to retrieve pertinent articles. Students who receive insufficient testing may find it difficult to locate particular course materials, which could cause frustration and make learning less successful.

Test Data

Test Data is provided in SampleData.xlsx file contains 9 articles within 3 different categories:

- Technology
- Mathematics
- Biography

Test Cases

Scenario	Case	Steps	Expected Outcome	Pass/Fail
Logging In	Have Account Made	Enter correct username and password	Should successfully be logged in and be able to access testing	Pass
Signing Up	Have Valid Data for User and Password	Create a username and password to make an account	Should successfully have created an account which works when trying the Logging In test	Pass
Browse All Articles	Enter Valid Keyword	Enter "Articles" in the URL to be shown all articles in DB	All articles should be displayed	Pass
Browse Article by Subject	Enter Valid Subject	Enter valid subject to URL to browse specified subject	Articles in the specified subject should be displayed	Pass
Browse Article by Credential	Enter Invalid Credential	Enter an incorrect credential	An empty array should be displayed when entering a credential wrong	Pass
Browse Article by Category	Enter category with lower case	Category should be written as lower case	An empty array should be shown as when categories are not written in upper	Pass

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			case an error	
Browse Article by	Enter Valid Title	Choose title from	Articles with the	Pass
Title		existing articles	title specified	
		o o	should be shown	
Browse Article by	Enter Valid ID	Copy and paste an	A message saying	Pass
ID		ID from an article	that the article	
		to get proper	exists should be	
		output	displayed	
Create Article	Enter Valid Data	Enter appropriate	The article should	Pass
		information	be successfully	
		according to each	created with the	
		field	inputted information when	
			creating the	
			article	
Update Article by	Enter Valid ID	Use the	Article should be	Pass
ID		corresponding ID	successfully	
		with the article	updated with new	
		you want to	information	
		change and enter		
		changes to the		
		article fields		
Delete Article by	Enter Valid ID	Use the	The article should	Pass
ID		corresponding ID	no longer be able	
		with the article	to seen in the DB	
		you wish to delete	nor searchable	
			through above tests	
Additional Tests				
outside of scope				
Concurrence Test	Multiple users are	Execute 2 same		
	searching for	category searches at the same time		
	same category at the same time	at the same time		
Performance Test	Test larger	Create 1000 –		
	database with	10000 entries and		
	more entries	perform search		

Performance testing and concurrency are important factors. The system may experience problems with concurrent user loads if these features are not thoroughly tested, which could result in poor performance or even data inconsistencies. It is critical to have timely and accurate access to

instructional materials, particularly on educational platforms where users depend on conducting focused searches in order to learn effectively.

Test Sign Off