Testing Document

1. Application Overview

Field	Description	
Application Name	Digital Learning Resources Platform	
Application Type	Web-based Educational Article Management System	
Platform Availability	Desktop & Mobile Browsers (Responsive Web App)	

2. App Description

The **Digital Learning Resources Platform** is an educational web application aimed at providing students, tutors, and administrators with curated content in the fields of **Technology**, **Mathematics**, and **Arts**. It supports a user-role-based system with access controls and features for browsing and searching categorized articles about individuals, concepts, artwork, and inventions.

3. Key Features

- 1. Subject-Specific Article Collections (Arts, Mathematics, Technology)
- 2. Role-Based Access (Student, Tutor, Admin)
- 3. Browse Articles by:
 - o Category
 - o Keyword in title
- 4. Add/Edit/Delete Articles (by Admins and Tutors)

4. Features to Be Tested

Feature	Purpose
Browse Articles by Category	Ensures categorized content access
Browse Articles by Title Keyword	Enables targeted search functionality

5. Test Data Summary

Test dataset: SampleData.xlsx

Includes 9 articles under the following categories:

• Technology

Mathematics

• Arts

6. Test Scenarios and Cases

Browse Articles by Category

Scenario	Test Case	Steps	Expected Outcome	Status
Valid Category	Arts	Select Arts from filter → call findArticleByCategoryName('Arts')	Returns all articles in the Arts category	✓ Pass
Invalid Category	_	findArticleByCategoryName('tv-series')	Error: Category not found by the name of tv-series	✓ Pass
Case Sensitivity	tech	Select tech → call findArticleByCategoryName('tech')	no results	✓ Pass

Browse Articles by Keyword in Title

Scenario	Test Case	Steps	Expected Outcome	Status
Valid Keyword	Leonardo	Search "Leonardo" → call findArticleByTitle('Leonardo')	Returns articles containing "Leonardo" in the title	✓ Pass
Invalid Keyword	User	Search "User" → call findArticleByTitle('User')	Error: No article found by the name of User	✓ Pass
Multiple Keyword Matches	Jobs		Returns all titles containing "Jobs" (requires at least 2 entries for testing)	✓ Pass

7. Additional Test Cases

Туре	Scenario	Expected Outcome
1	31	Both users receive accurate and fast results without conflict
	, , ,	Search speed remains acceptable (under 2s), no crashes or lag

8. Bugs / Observations

Issue ID	Description	Status
#BUG001	Case sensitivity in category filter leads to empty result set	Confirm expected behavior
#BUG002	Search does not support partial or fuzzy matches	Consider implementing fuzzy search

9. Test Sign-Off

Role	Name	Date
Tester	Jashandeep Singh	30/06/25
Developer	Annta	30/06/25
Supervisor	Prabhjot Kaur	30/06/25