**Testing Document**

EduArchive

**Team Data Access Geeks**

# Introduction

This document presents the results of testing the various functional requirements of the ***EduArchive*** web application to ascertain if they fulfil the user stories that were detailed in the Requirements Document for this project:

A close-up of a page

Description automatically generated

## Testing: Auth0 (Ciar)

**INITIAL TESTING: VERSION 1**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Date** | **Notes** |
| Opening Auth0 | Auth0 window should open and allow inputs | Auth0 window has opened | PASS | 12/09/23 |  |
| Sign up | User should be able to input an email address and valid password to create an account | Auth0 allowed me to create an account, validated password requirements, and lead me back to the home page after authorisation was cleared | PASS | 12/09/23 | We may want to consider changing the ‘login’ button to ‘signup/login’ for usability |
| Login | User should be able to login to their account and access the website | Login worked, ‘login’ button has changed to ‘logout’ | PASS | 12/09/23 |  |
| Logout | Login button should have changed to logout, and clicking it will log user out of account, changing ‘logout’ back to ‘login’ | Logging out was successful- ‘logout’ button changed back to ‘login’ | PASS | 12/09/23 |  |
| Guest | Non-logged in user should see no articles | Guests can currently see all articles, and have full CRUD functionality | FAIL | 14/09/23 |  |
| Student | Student accounts should be able to only view articles | Students have full CRUD functionality | FAIL | 14/09/23 |  |
| Tutor | Tutors should be able to view, create and update articles | Tutors have full CRUD functionality | FAIL | 14/09/23 |  |
| Admin | Admin should be able to view, create, update, and delete articles | Full CRUD functionality currently available to every user role | FAIL | 14/09/23 | Technically counts as a ‘pass’, but I am aware from the code and auth0 account that full crud functionality is not due to being in an admin account |

**SECONDARY TESTING: VERSION 2**

*Failed test cases were unable to be fixed during this iteration. Secondary testing has been completed on Friday 15th September to ensure new merges to the main branch have not caused any new bugs. All previously passed tests continue to function as expected.*

## Testing: Create Articles (Jethro)

This test plan is focusing on the testing the functionality of creating Cards/Articles on the EduArchive Web Application. The purpose is that the users (user permissions not yet clarified) are able to create articles with information related to such article.

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| --- | --- | --- | --- | --- | --- |
| **Test** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Date** | **Notes** |
| Upon opening application all cards should be shown | All cards should be displayed as per normal | As expected, all articles are displayed as per normal | PASS | 15/09/23 |  |
| Button on home page send user to create article path | Button works as expected sending the user to the ‘article/create’ path | Button does work sending the user to the create article path. | PASS | 15/09/23 |  |
| Inputs for create article capability works | All inputs should accept correct inputs with datatypes | All inputs allow for information to be entered. | PASS | 15/09/23 | All inputs are text inputs, however some of the data is numbers. Could be changed in future interactions. |
| Create Article button submits all information to Database | After clicking create articles button, inputs should add a document to the database collection. | As expected, all fields from the create article form have saved into the database. | PASS | 15/09/23 |  |
| Homepage has the new article upon refresh | After an article document is created, it should be added as a card to the homepage | As expected the article is added to the front page due to being in the database. | PASS | 15/09/23 |  |

## Testing: Read and Delete Articles (Pyper)

This test plan focuses on validating the capability of reading and deleting cards in the EduArchive web application. The goal of this test plan is to guarantee that users can read the full article with all the information about a card by clicking the information button and delete cards by clicking the delete button successfully. Furthermore, the approach intends to ensure that deleted cards are properly removed from the program. The successful completion of these tests is crucial to assuring the reliability and usability of the web application.

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| --- | --- | --- | --- | --- | --- |
| **Test** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Date** | **Notes** |
| Upon opening the application all cards should show up. | All cards should be displayed on the main page. | As expected, all cards are being displayed on the main page. | PASS | 14/09/23 |  |
| Read - Upon clicking the information button on a card, the detailed page of the card should be displayed. | After clicking the information button of a card, the detailed page of the card should open without any errors, and all relevant information about the card should be displayed. | As expected, after clicking the information button of a card, the detailed page of the card opened without any errors, and all relevant information about the card was displayed. | PASS | 14/09/23 |  |
| Delete - Upon clicking the delete button of a card, the card should be deleted from the application. | After clicking the delete button on a card, the application should prompt for confirmation before deleting the card. After confirming the deletion, the card should be removed from the list of visible cards. | As expected, after clicking the delete button on a card, a prompt for confirmation came up before deleting the card. After confirming the deletion, the card was removed from the list of visible cards. | PASS | 14/09/23 |  |
| Verifying deletion - After deleting a card, attempt to locate and access the deleted card. | After confirming the deletion of a card, if the card was successfully deleted it should not be present or accessible in the application or database. | As expected, after confirming the deletion of a card, the card was no longer present or accessible in the application or database. | PASS | 14/09/23 |  |

## Testing: Update Articles (Gray)

Originally the test plan testing every single article/record and all of their relevant fields. The plan was then altered to just test one article/record, but to also test the non-applicable fields for Claude Monet. Because the database we have decided to use for the implementation of the application is MongoDB, a non-relational database, every field has the same functionality on the backend.

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| --- | --- | --- | --- | --- |
| **Test** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Date** |
| Edit button – Claude Monet | Article details page displays the relevant information | As expected | PASS | 14/09/23 |
| Category edit – Claude Monet | Change the category to ‘Technology’ for testing purposes. This change should be saved and be reflected when the article details page is opened again and also when searching for articles by category, and on the articles list page. | As expected | PASS | 14/09/23 |
| Type edit – Claude Monet | Change the type to ‘Algorithm’ for testing purposes. This change should be saved and be reflected when the article details page is opened again and also when the Claude Monet summary information is displayed. | As expected | PASS | 14/09/23 |
| Name edit – Claude Monet | Change the name to ‘Bob’ for testing purposes. This change should be saved and be reflected when the article details page is opened again and also when the Claude Monet summary information is displayed. | As expected | PASS | 14/09/23 |
| Born edit - Claude Monet | Change the date of birth to 2002 for testing purposes. This change should be saved and be reflected when the article details page is opened again. | As expected | PASS | 14/09/23 |
| Death edit – Claude Monet | Change the death date to 2004 for testing purposes. This change should be saved and be reflected when the article details page is opened again. | As expected | PASS | 14/09/23 |
| Nationality edit – Claude Monet | Change the nationality to ‘Poland’ for testing purposes. This change should be saved and be reflected when the article details page is opened again. | As expected | PASS | 14/09/23 |
| Known for section edit -  Claude Monet | Change the ‘known for’ section to ‘Skiing’ for testing purposes. This change should be saved and be reflected when the article details page is opened again. | As expected | PASS | 14/09/23 |
| Notable work section edit – Claude Monet | Change the ‘notable work’ section to ‘mountain’ for testing purposes. This change should be saved and be reflected when the article details page is opened again. | As expected | PASS | 14/09/23 |
| About section edit – Claude Monet | Change the ‘about’ section to the alphabet. This change should be saved and be reflected when the article details page is opened again. | As expected | PASS | 14/09/23 |
| Year section edit – Claude Monet | Give this section a value | As expected | PASS | 14/09/23 |
| Medium section edit– Claude Monet | Give this section a value | As expected | PASS | 14/09/23 |
| Dimensions section edit – Claude Monet | Give this section a value | As expected | PASS | 14/09/23 |
| Location section edit – Claude Monet | Give this section a value | As expected | PASS | 14/09/23 |
| Designed by section edit – Claude Monet | Give this section a value | As expected | PASS | 14/09/23 |
| Developer section edit – Claude Monet | Give this section a value | As expected | PASS | 14/09/23 |
| Mass update – Claude Monet | Change all of the above fields back to their original values. | As expected | PASS | 14/09/23 |

## Testing: Filter by Category (Maki)

The purpose of this test is to validate the functionality and responsiveness of the category selector feature in the *EduArchive* web application. The category selector allows users to filter and view articles based on their respective categories: Arts, Mathematics, and Technology. The tests outlined below are designed to cover the primary use cases associated with the category selector. The testing conditions have been set with a sample data set in the EduArchive database, containing nine article documents, with three articles from each category.

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| **Test** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Date** | **Notes** |
| Upon application launch, articles from all categories should be displayed. | Cards representing articles from all three categories (Arts, Mathematics, Technology) should be visible. | All nine article cards, spanning the three categories (Arts, Mathematics, Technology), are displayed. | Pass | 13/09/23 | The category selector dropdown defaults to “All Categories” upon launch. |
| Only articles with the “Arts” category are displayed when “Arts” is selected in the category selector. | Upon selecting "Arts" from the category selector dropdown, only cards corresponding to the "Arts" articles should be visible. Articles from the "Mathematics" and "Technology" categories should be hidden. | Only the three article cards categorised under "Arts" are visible. Articles from the other two categories, "Mathematics" and "Technology", are hidden. | Pass | 13/09/23 | The category selector dropdown accurately reflects the "Arts" selection. |
| Only articles with the “Mathematics” category are displayed when “Mathematics” is selected in the category selector. | Upon selecting "Mathematics" from the category selector dropdown, only cards corresponding to the "Mathematics" articles should be visible. Articles from the "Arts" and "Technology" categories should be hidden. | Only the three article cards categorised under "Mathematics" are visible. Articles from the other two categories, "Arts" and "Technology", are hidden. | Pass | 13/09/23 | The category selector dropdown accurately reflects the "Mathematics" selection. |
| Only articles with the “Technology” category are displayed when “Technology” is selected in the category selector. | Upon selecting "Technology" from the category selector dropdown, only cards corresponding to the "Technology" articles should be visible. Articles from the "Arts" and "Mathematics" categories should be hidden. | Only the three article cards categorised under "Technology" are visible. Articles from the other two categories, "Arts" and "Mathematics", are hidden. | Pass | 13/09/23 | The category selector dropdown accurately reflects the "Technology" selection. |
| Check the responsiveness and loading time when switching between categories. | The transition should be smooth, and the loading time should be reasonable. | Switching between categories, the transition is immediate and the loading time to render the cards is very fast. | Pass | 13/09/23 |  |
| After selecting a category, the browser page is refreshed. | Upon refreshing the browser page, the application should default to displaying “All Categories”. | After selecting the “Arts” category, only the three article cards categorised under "Arts" are visible. Upon refreshing the browser page, the application resets to the default state of “All Categories”, displaying all nine article cards spanning all three categories (Arts, Mathematics, Technology). | Pass | 13/09/23 | The user’s category selection does not persist following a page refresh. |

## Testing: Search by Keyword (Charles)

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| **Test** | **Search Term** | **Expected result** | **Actual result** | **Pass/Fail** | **Date** |
| Basic search – entering a single keyword that exists in the database | Steve | Article matching the keyword is displayed while articles not matching keyword are hidden | As expected, only the Steve Jobs article card is shown | Pass | 12/09/23 |
| Exact title match – entering the exact title of an article that exists in the database | Bill Gates | The article with the exact same title as the search term is displayed while articles not matching are hidden | As expected, only the Bill Gates article card is shown | Pass | 12/09/23 |
| Partial match – entering part of a title of an article that exists in the database | mon | Any articles with titles containing the search term are shown and any articles with titles that don’t contain the search term are hidden | As expected, both the Claude Monet and Mona Lisa article cards are shown | Pass | 12/09/23 |
| Case sensitivity – entering a keyword that exists in the database in both lowercase and uppercase to check for case sensitivity | “monet” and “MONET” | Any articles that have words in the title matching the search term should be shown regardless of case and any articles that don’t match should be hidden | As expected, only the Claude Monet article card is shown when using all lowercase and when using all uppercase | Pass | 12/09/23 |
| Empty search – entering nothing into the search field | N/A | All articles should be shown | As expected, all articles are shown | Pass | 12/09/23 |