

QA CHALLENGE

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ENSOLVERS

TECHNICAL TEST

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QA Challenge

Objective

The purpose of this challenge is to test your QA skills in a practical scenario. At <https://qa-challenge.ensolvers.com>, you will find a very simple to-do app which allows you to manage to-do items and group them in folders. You can log in as a user with "user" both as a username and password.

In this challenge you will need to:

Task 1: Build a Use Case list specifying, with the most formal description possible, the different flows to be tested so they can be used as a reference for testing the app by you or any other QA team member.

Task 2: Test the app end-to-end and report any bug or UX issue that you consider needs to be solved. Again, in this case, you must be as formal as possible when describing each one using the tools, templates, and/or artifacts that you think suit better for this task.

Task 3: Write a suite of automated tests using Selenium, Cypress, or any other tool/framework you know to automatically check if all the flows defined in Task 1 are fulfilled as expected.

TASK 1 USES CASES

Use Case: Login	
Actors:	Unauthenticated User, System
Description:	This use case outlines the process of authenticating a user attempting to access the application.
Precondition:	The user is not logged into the application.
Main Flow:	
1. The user accesses the website	
2. The system displays the login form	
3. The user enters their credentials	
4. The user clicks "Login"	
5. The system validates the credential	
6. The system redirects the user to the authenticated main page	
Alternative Flow:	
- User forgets the password	Displays a link to recover the password in the login form
- User enters incorrect credentials	Displays an error message and allows for new attempts
- User leaves fields blank	Displays an error message and requires filling all fields
Postconditions:	The user has successfully logged in and has access to authenticated functions

Use Case: To-Do Creation	
Actors:	Authenticated User, System
Description:	This use case outlines the process of creating a new task by an authenticated user in the application.
Precondition:	The user is logged into the application.
Main Flow:	
1. The user accesses the tasks section	
2. The user clicks on "Manage To-Do Items"	
3. The system displays a task creation form	
4. The user completes the form	
5. The user clicks "Save"	
7. The system saves the new task	
Alternative Flow:	
- User cancels task creation	
Postconditions:	A new task has been created and appears in the user's task list

Use Case: Folder Creation	
Actors:	Authenticated User, System
Description:	This use case outlines the process of creating a new folder by an authenticated user in the application.
Precondition:	The user is logged into the application.
Main Flow:	
1. The user accesses the folders section	
2. The user clicks on "Manage Folders"	
3. The system displays a folder creation form	
4. The user completes the form	
5. The user clicks "Save"	
6. The system saves the new folder	
Alternative Flow:	
- User cancels folder creation	
Postconditions:	A new folder has been created and is available for use.

Use Case: Task Sort	
Actors:	Authenticated User, System
Description:	This use case outlines the process of sorting and searching tasks by an authenticated user in the application. Sorting and searching are allowed by ID, title, description, and folder.
Precondition:	The user is logged into the application and has at least one task created.
Main Flow:	
1. The user accesses the tasks section	
2. The user uses filters to search and sort tasks (ID, title, description, folder)	
3. The system displays the sorted tasks	
Alternative Flow:	
the folders with the id: 15,45,975,1025,1065,1075,1085,1105. have problems to be removed, instead we get an "error.http.500" message	Considered as an exceptional flow.
Postconditions:	The tasks are displayed sorted and filtered based on the specified criteria.


Use Case: Folder Sorting	
Actors:	Authenticated User, System
Description:	This use case outlines the process of sorting folders by an authenticated user in the application. Folders can be sorted by ID and name.
Precondition:	The user is logged into the application and has at least one folder created.
Main Flow:	
1. The user accesses the folders section	
2. The user uses filters to sort folders by ID or name	
3. The system don't displays the sorted folders	
Alternative/Exceptional Flow:	
- The system does not allow sorting folders (displays an error message)	Considered as an alternative or exceptional flow.
Postconditions:	Folders are not displayed in order according to the specified criteria.


Use Case: Task Management (View, Edit, Delete)	
Actors:	Authenticated User, System
Description:	This use case covers task management, allowing the user to view, edit, and delete specific tasks in the application.
Precondition:	The user is logged into the application and has at least one task created.
Main Flow - View Task:	
1. The user accesses the tasks section	
2. The user selects the task to view	
3. The system displays the details of the selected task	
Main Flow - Edit Task:	
1. The user accesses the tasks section	
2. The user selects the task to edit	
3. The system displays the task editing form	
4. The user makes modifications and saves	
Main Flow - Delete Task:	
1. The user accesses the tasks section	
2. The user selects the task to delete	
3. The system requests confirmation and deletes the task	
Postconditions:	The task has been viewed, edited, or deleted according to the user's action.


Use Case: Folder Management (View, Edit, Delete)	
Actors:	Authenticated User, System
Description:	This use case covers folder management, allowing the user to view, edit, and delete specific folders in the application.
Precondition:	The user is logged into the application and has at least one folder created.
Main Flow - View Folder:	
1. The user accesses the folders section	
2. The user selects the folder to view	
3. The system displays the details of the selected folder	
Main Flow - Edit Folder:	
1. The user accesses the folders section	
2. The user selects the folder to edit	
3. The system displays the folder editing form	
4. The user makes modifications and saves	
Main Flow - Delete Folder:	
1. The user accesses the folders section	
2. The user selects the folder to delete	
3. The system requests confirmation and deletes the folder	
Alternative/Exceptional Flow:	
- The system does not allow sorting folders (displays an error message)	Considered as an alternative or exceptional flow.
Postconditions:	The folder has been viewed, edited, or deleted according to the user's action.


Use Case: Session Management	
Actors:	Authenticated User, System
Description:	This use case covers session management for an authenticated user in the application. It includes successfully logging out and verifying session persistence when reloading the page.
Precondition:	The user is logged into the application.
Main Flow - Log Out:	
1. The user accesses the log-out option	
2. The system logs out the user	
3. The system redirects the user to the login page	
Main Flow - Session Persistence Verification:	
1. The user has previously logged in	
2. The user reloads the page	
3. The system verifies and maintains the user's session	
Postconditions:	The user has successfully logged out, and session persistence is maintained when reloading the page.

TASK 2 BUGS REPORTS

Bug Report BR-001	
date/ time	12/01/2024 10:00 am
Operating System Version	Windows 11 Pro
Summary	The "folder" category sorting button on the To-Do Items management page is not functioning
Description	After logging into the application with authorized credentials, I navigate to the "Manage To-Do Items" section. Clicking on the category sorting buttons, specifically the "folder" category, does not result in any changes to the organization of items. It is expected that items will be sorted according to the folder ID.
Steps to Reproduce:	<p>Log in to the application at https://qa-challenge.ensolvers.com/.</p> <p>Navigate to the "Manage To-Do Items" section.</p> <p>Observe the current To-Do Items.</p> <p>Click on the "folder" category sorting button.</p>
Expected Result	To-Do Items are expected to be sorted according to the folder ID when clicking on the "folder" category sorting button.
Observed Result:	No changes are observed in the organization of items when clicking on the "folder" category sorting button.
Severity	Medium (The bug affects the functionality of sorting To-Do Items by the "folder" category, but does not completely hinder the use of the application).
Attachments	 BR-001.mp4
Browser Version	Google Chrome 120.0.6099.217
Reporter's Name	Alan David Gonzalez Guzman

Bug Report BR-002	
date/ time	12/01/2024 10:00 am
Operating System Version	Windows 11 Pro
Summary	The sort by ID and Name buttons are not available on the "Manage Folder".
Description	After logging into the application with authorized credentials, I access the "Manage Folder". I observe that the sort by ID and Name buttons are not present in the interface. It is expected that these buttons be available to organize folders by ID or name.
Steps to Reproduce:	<p>Log in to the application at https://qa-challenge.ensolvers.com/.</p> <p>Navigate to the "Manage Folder" section of the "Use Case: Folder Sorting".</p> <p>Observe the current list of folders.</p> <p>Look for the sort by ID and Name buttons.</p>
Expected Result	There should be sort by ID and Name buttons in the "Manage Folder".
Observed Result:	The sort by ID and Name buttons are not found in the "Manage Folder".
Severity	High (The bug affects the essential functionality of sorting folders by ID and Name).
Attachments	 BR-002.mp4
Browser Version	Google Chrome 120.0.6099.217
Reporter's Name	Alan David Gonzalez Guzman

Bug Report BR-003	
date/ time	12/01/2024 10:00 am
Operating System Version	Windows 11 Pro
Summary	Unable to delete folders with IDs 15, 45, 975, 1025, 1065, 1075, 1085, 1105 on the folder management page.
Description	After logging into the application with authorized credentials, I access the folder management section. I attempt to delete folders with the IDs 15, 45, 975, 1025, 1065, 1075, 1085, 1105, but I receive an error message "error.http.500". It is expected that these folders can be deleted successfully.
Steps to Reproduce:	<p>Log in to the application at https://qa-challenge.ensolvers.com/.</p> <p>Navigate to the folder management section of the "Use Case: Folder Management (View, Edit, Delete)".</p> <p>Search and select folders with IDs 15, 45, 975, 1025, 1065, 1075, 1085, 1105.</p> <p>Attempt to delete the selected folders.</p>
Expected Result	Folders with the specified IDs are expected to be deleted successfully without displaying error messages.
Observed Result:	When trying to delete folders with IDs 15, 45, 975, 1025, 1065, 1075, 1085, 1105, an error message "error.http.500" is encountered, and the folders are not deleted.
Severity	Critical (The bug prevents the deletion of folders, impacting the essential functionality)
Attachments	 BR-003.mp4
Browser Version	Google Chrome 120.0.6099.217
Reporter's Name	Alan David Gonzalez Guzman

Bug Report BR-004	
date/ time	12/01/2024 10:00 am
Operating System Version	Windows 11 Pro
Summary	Immediate visual update when editing the folder associated with a To-Do Item.
Description	After logging into the application with authorized credentials, I access the To-Do Items management section of the "Use Case: Task Management (View, Edit, Delete)". When editing the folder associated with a To-Do Item and selecting a new folder with a different ID (for example, from 15 to 45), upon clicking "Save," the interface does not immediately reflect the change. However, upon returning to the "Manage To-Do Items" section, the update is correctly reflected with the new folder ID.
Steps to Reproduce:	<p>Log in to the application at https://qa-challenge.ensolvers.com/.</p> <p>Navigate to the To-Do Items management section of the "Use Case: Task Management (View, Edit, Delete)".</p> <p>Edit a To-Do Item and change the associated folder (for example, from ID 15 to 25).</p> <p>Click "Save".</p>
Expected Result	Upon saving the changes, the interface is expected to immediately reflect the new folder ID associated with the To-Do Item.
Observed Result:	The visual update of the interface is not immediate when changing the folder associated with a To-Do Item. However, upon returning to the "Manage To-Do Items" section, the update is correctly reflected with the new folder ID.
Severity	Low (The proposed improvement does not impact the core functionality of the system but could enhance the user experience).
Attachments	 BR-004.mp4
Browser Version	Google Chrome 120.0.6099.217
Reporter's Name	Alan David Gonzalez Guzman