

Test Cases for ASL Word Submission Form Enhancements

1. General Form Submission Tests

Test Case	Steps	Expected Result
Submit the form with all required fields filled in correctly.	Fill in all required fields and click "Submit".	Form submits successfully without errors.
Submit the form with one or more required fields empty.	Leave one or more required fields blank and click "Submit".	Error message appears; missing fields flash red.
Submit the form with an invalid URL in the Image Link or Video Link field.	Enter an invalid URL (e.g., <code>not_a_url</code>) and click "Submit".	Form does not submit, and an error message appears.
Submit the form with a valid URL in the Image Link and Video Link fields.	Enter a valid URL and click "Submit".	Form submits successfully.
Submit the form with only optional fields filled in.	Leave required fields blank, fill in optional fields, and click "Submit".	Form does not submit (required fields must be filled).
Ensure form fields clear after a successful submission.	Fill out the form, submit successfully, and check if fields reset.	Form resets after submission.

2. Custom Field Addition and Removal Tests

Test Case	Steps	Expected Result
Click the "Add Custom Field" button once.	Click "Add Custom Field".	A new custom field (label and input) appears above the button.

Click the "Add Custom Field" button multiple times.	Click "Add Custom Field" multiple times.	Custom fields are limited to 3 per word doc to limit possible abuse.
Add a custom field, enter a label and a value, and then submit the form.	Click "Add Custom Field", enter a label and value, and click "Submit".	Form submits successfully, including the custom field data.
Add a custom field, then remove it using the "Remove Field" button.	Click "Add Custom Field", then click "Remove Field".	The custom field disappears from the form.
Add multiple custom fields, then remove one in the middle.	Add three custom fields, remove the second one.	The correct field is removed, and the remaining fields stay in place.
Add a custom field but leave it empty, then submit the form.	Add a custom field, leave it blank, and click "Submit".	Form submits successfully since custom fields are optional.

3. UI/UX Tests

Test Case	Steps	Expected Result
Resize the browser window above 600px.	Increase the window size to over 600px.	The form resizes properly and remains fully usable.
Resize the browser window below 600px.	Decrease the window size to below 600px.	The form remains responsive and readable.
Click the "Add Custom Field" button multiple times.	Click the button repeatedly.	Fields appear one by one above the button with proper spacing.
Check if the submit button and add custom field button have enough spacing.	Observe button positions.	The buttons do not touch and have appropriate spacing.
Click the "Remove Field" button on a custom field.	Add a custom field, then click "Remove Field".	The field is removed without affecting other fields.

Hover over the submit button.	Move the cursor over the submit button.	The button changes color slightly, indicating interactivity.
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4. Validation Tests

Test Case	Steps	Expected Result
Try submitting without entering a word.	Leave the "Word" field empty and click "Submit".	The "Word" field flashes red, and an error message appears.
Try submitting without entering a plain definition.	Leave the "Plain Definition" field empty and click "Submit".	The "Plain Definition" field flashes red, and an error message appears.
Try submitting without entering pronunciation.	Leave the "Pronunciation" field empty and click "Submit".	The "Pronunciation" field flashes red, and an error message appears.
Enter an invalid URL in the image link field.	Type <code>not_a_url</code> into the "Image Link" field and click "Submit".	The form prevents submission, and an error appears.
Enter an invalid URL in the video link field.	Type <code>not_a_url</code> into the "Video Link" field and click "Submit".	The form prevents submission, and an error appears.
Enter a valid URL in both image and video link fields.	Enter a valid URL and click "Submit".	The form allows submission.

5. Error Handling Tests

Test Case	Steps	Expected Result
Leave all required fields empty and click submit.	Do not enter any values and click "Submit".	Form does not submit, and missing fields flash red.
Enter incorrect data types in fields (e.g., numbers in text fields).	Enter numbers in text-only fields and click "Submit".	Form submits unless specific validation prevents it.

Add multiple custom fields and submit with some filled and some empty.	Add multiple custom fields, leave some blank, and click "Submit".	Form submits successfully since custom fields are optional.
Remove a custom field before submitting.	Add a custom field, then remove it before clicking "Submit".	Form submits successfully without the removed field.

6. Performance and Compatibility Tests

Test Case	Steps	Expected Result
Load the form on different screen sizes (mobile, tablet, desktop).	Open the form on various devices.	The form is responsive and adjusts to different screens.
Load the form in different browsers (Chrome, Firefox, Edge, Safari).	Open the form in different browsers.	The form works consistently across all browsers.
Test form submission speed.	Fill in the form and submit multiple times.	The form processes the request quickly without unnecessary delays.

7. Database Integration

Test Case	Steps	Expected Result
Submit a valid form	Fill in all required fields and submit	The data should be stored in the MariaDB database, and a success response should be received.
Submit duplicate entries	Submit the same word multiple times	The database should prevent duplicates if necessary, or handle them appropriately.
SQL Injection Attempt	Enter malicious SQL code in text fields	The form should sanitize inputs and prevent database corruption.

Check stored submission in database	Query the MariaDB table for the newly submitted entry	The data should match what was entered in the form.
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