Bug Report: Student Registration Form

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Test URL: https://demoqa.com/automation-practice-form

Contents

1 Bug #1: Email Field Validation Not Working Properly

1.1 Email Field Accepts Empty Input But Validates Incorrectly When Typing

Description

The email field on the student registration form has inconsistent validation behavior. When left completely empty, the form allows submission without any validation error. However, once a user starts typing anything in the field, validation is triggered and expects an email format, but accepts any text containing '@' regardless of domain validity.

Steps to Reproduce

1. Navigate to https://demoqa.com/automation-practice-form

2. Leave the email field completely empty

3. Fill out other required fields (First Name, Last Name, Gender, Mobile)

4. Click Submit

5. Observe that the form submits without validating the empty email

6. Reload the page

7. Start typing in the email field (e.g., "test")

8. Notice validation appears requiring '@'

9. Type "test@anything" with an invalid domain

10. Observe the validation accepts this format

Expected vs. Actual Behavior

> **Expected Behavior**
>
> Email field should be validated whether empty or filled, and should only accept properly formatted email addresses with valid domains (e.g., @example.com, @gmail.com)

> **Actual Behavior**
>
> Empty email field is not validated at all, and partial validation only begins once typing starts. The validation accepts any text with '@' regardless of domain validity.

Severity and Priority

Severity: High (Data integrity issue that allows invalid contact information)
Priority: High (Affects core functionality and data quality)

2 Bug #2: Date of Birth Calendar Allows Future Dates

2.1 Date of Birth Dropdown Calendar Allows Selection of Future Dates Up to Year 2100

Description

The Date of Birth dropdown calendar picker for the student registration form allows selection of future dates up to the year 2100. The calendar interface features month and year dropdown selectors that include future years. This is illogical for a student registration form as it allows selection of birth dates that haven't occurred yet.

Steps to Reproduce

1. Navigate to https://demoqa.com/automation-practice-form

2. Click on the Date of Birth field to open the calendar picker

3. Click on the year dropdown in the calendar header

4. Scroll through the dropdown list and observe that years up to 2100 are available

5. Select a future year (e.g., 2050)

6. Select any month from the month dropdown

7. Click on any day in the calendar

8. Observe that this future date is accepted as a valid date of birth

Expected vs. Actual Behavior

Expected Behavior

Date of Birth calendar should only allow selection of past dates up to the current date, as future dates cannot logically be birth dates. The year dropdown should be limited to years from past to present.

Actual Behavior

Calendar's year dropdown allows selection of dates up to year 2100, including future dates that haven't occurred yet, which is inappropriate for a birth date field.

Severity and Priority

Severity: Medium (Logical error that allows impossible data)
Priority: Medium (Affects data integrity but doesn't prevent form operation)

3   Bug #3: Picture Upload Field Accepts Any File Type

3.1   Picture Upload Field Accepts Non-Image Files and Has Persistent Caching Issues

Description

The picture upload functionality has multiple issues:

1. It accepts any file type (PDFs, ZIP, WAV, etc.) instead of limiting to image formats

2. The uploaded file persists in memory even when the form is reset or closed

3. When the form is closed (via close button) and reopened without page refresh, and submitted without selecting a new picture, the previously uploaded file is still submitted despite the upload field appearing empty

Steps to Reproduce

For file type issue:

1. Navigate to https://demoqa.com/automation-practice-form

2. Click on the "Select picture" button

3. Select a non-image file (e.g., PDF, ZIP, WAV)

4. Observe that the file is accepted

For caching issue without page refresh:

1. Upload a picture to the form

2. Click the Submit button

3. When the confirmation modal appears, click the Close button

4. Observe that all form fields are reset, including the file upload field (no filename is displayed)

5. Without uploading a new file, click Submit again

6. Observe that the previously uploaded file is still submitted even though no file appears to be selected

For caching issue with page refresh:

1. Upload a picture and submit the form

2. Refresh the page

3. Observe that the file upload field is properly reset (as expected)

Expected vs. Actual Behavior

Expected Behavior

- Picture upload should only accept image file types (JPG, PNG, GIF, etc.)

- When the form is reset after submission (via Close button), all form data including the file upload should be completely cleared from memory

- A new submission after form reset should not include any previously uploaded files unless explicitly selected again

Actual Behavior

- Any file type is accepted for upload

- When the form is reset via the Close button after submission, the file upload appears to be reset visually, but the file data persists in memory

- Form submissions after resetting (without page refresh) still include the previously uploaded file even though the file upload field appears empty

Severity and Priority

Severity: High (Security concern with accepting any file type and data persistence issue)
Priority: High (Affects data security and user experience)

4 Bug #4: Form Submits With Empty Required Fields

4.1 Form Submits Successfully With Multiple Empty Required Fields

Description

The form allows submission even when several fields that should logically be required are left empty:

1. Subjects field can be left completely empty

2. Current Address field can be left empty

3. Picture upload can be skipped entirely

4. Hobbies checkboxes can all be left unselected

5. State and City fields can both be left unselected

Steps to Reproduce

1. Navigate to https://demoqa.com/automation-practice-form

2. Fill only the minimum required fields (First Name, Last Name, Gender, Mobile Number)

3. Leave all other fields empty:

   - Don't select any Subjects
   - Leave Current Address blank
   - Don't upload any Picture
   - Don't select any Hobbies
   - Don't select State or City

4. Click Submit

5. Observe that the form submits successfully

Expected vs. Actual Behavior

Expected Behavior

If fields are crucial for the student registration process (like Subjects for a student), the form should validate them and prevent submission if they're empty

Actual Behavior

The form submits successfully even with multiple logically required fields left empty, resulting in incomplete student records

Severity and Priority

Severity: Medium (Data completeness issue)
Priority: Medium (Affects data quality and usefulness of collected information)

5 Bug #5: State and City Selection Dependency Issues

5.1 State and City Selection Has Multiple Dependency and Update Issues

Description

The State and City selection fields have several issues:

1. Form submits even when both State and City are left unselected

2. If State is selected but City is not, form still submits

3. When changing State after a City is already selected, the City selection doesn't reset or update to match the new State options

Steps to Reproduce

For submission with empty fields:

1. Navigate to https://demoqa.com/automation-practice-form

2. Fill other required fields but leave State and City unselected

3. Click Submit

4. Observe form submits successfully

For State-City dependency issue:

1. Select a State from the dropdown

2. Select a City from the dropdown

3. Change the State selection to a different state

4. Observe that the previously selected City remains selected even though it may not belong to the new State

5. Submit the form

6. Observe that the mismatched State-City combination is submitted

Expected vs. Actual Behavior

> **Expected Behavior**
>
> - Form should require both State and City if they are required fields
>
> - When State is changed, the City selection should reset or update to show only cities relevant to the selected State
>
> - Mismatched State-City combinations should not be allowed

Actual Behavior

- Form submits with empty State and City fields

- When State is changed, previously selected City remains selected even if not valid for the new State

- Mismatched State-City combinations are submitted

Severity and Priority

Severity: Medium (Data integrity and relationship issue)
Priority: Medium (Affects data quality and relationship integrity)

6 Testing Environment

Browser	Safari, Google Chrome
Operating System	macOS
Date Tested	26 April 2025

7 Screenshots

Figure 1: State and City selection dependency issues (Bug #5)

Figure 2: Empty fields submission (Bug #4)

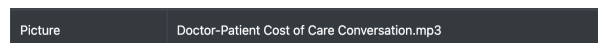Figure 3: Email-filed validation (Bug #1)

Figure 4: DOB selector issues (Bug #2)

Figure 5: DOB selector issues (Bug #3)