Quality Assurance (QA) Report

Project Name: DATABASE FORM, DUHS
Date: 19th March, 2025
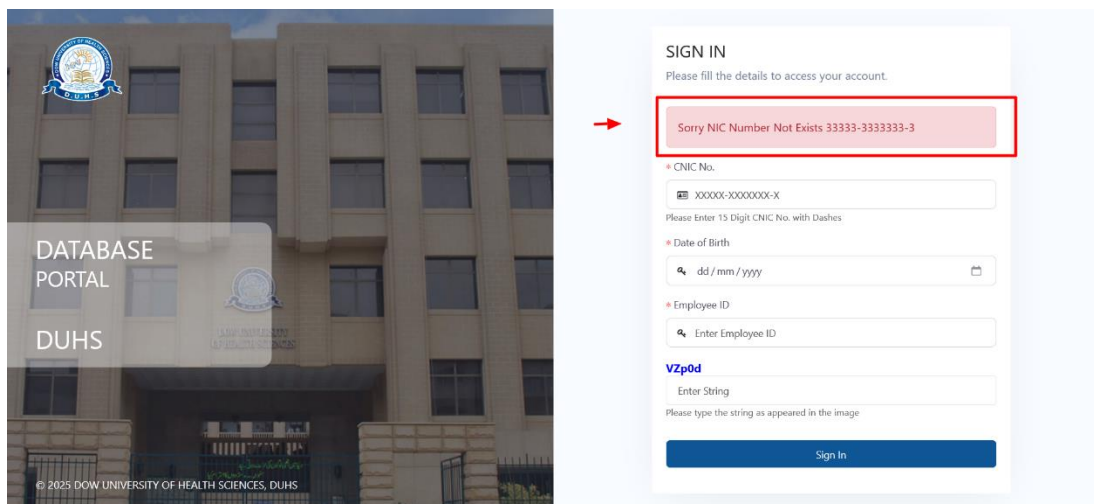**Prepared By:** Babar Khan
Version: 1.0

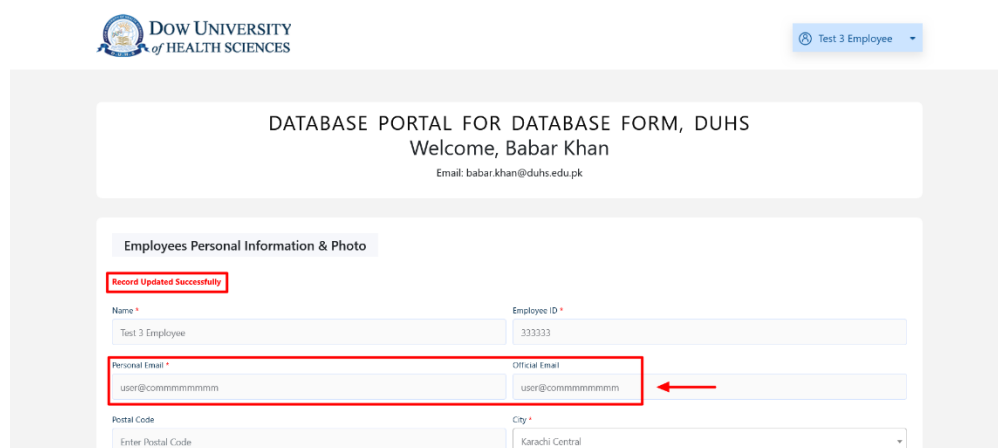## 1. Analysis & Findings

1.1 Employee ID Validation Issue

- **Issue:** Upon entering an incorrect **Employee ID (EMPLID)**, the system displays an incorrect error message:
  "Sorry NIC Number Not Exists 33333-3333333-3"

- **Recommendation:** Update the validation logic to ensure the correct error message is displayed based on the actual input field (EMPLID).

1.2 Email Validation Issue

- **Issue:** The system accepts invalid email formats and updates records without validation.

- **Recommendation:** Implement strict email validation to ensure only properly formatted email addresses (e.g., user@example.com) are accepted.

1.3 Page Refresh Causes Duplicate Submissions

- **Issue:** Upon refreshing the page, the message **"Record Updated Successfully"** is not removed, leading to repeated data submissions.

- **Recommendation:** Implement a mechanism to prevent duplicate form submissions upon page refresh. A success message should be cleared or removed automatically after a short delay.

1.4 Mandatory Field Validation: City

- **Issue:** The **City** field is missing, but the form submits successfully despite City being a mandatory requirement.

- **Recommendation:** Ensure validation for the city field is enforced before allowing form submission.

1.5 Postal Code Validation Issue

- **Issue:** The Postal Code field accepts special characters.

- **Recommendation:** Implement a validation rule to allow only numeric values for Postal Code (e.g., 12345).

1.6 License Number Validation Issue

- **Issue:** The License Number field allows special characters (e.g., "@@@@----$$##").

- **Recommendation:** Restrict the format to follow **"PMDC-12345"** structure (PMDC prefix + digits).

1.7 Picture Upload Issue

- **Issue 1:** When a new picture is uploaded, the updated image appears, but an incorrect message is displayed:
  "Picture Already Uploaded"

- **Issue 2:** When submitting the form without uploading a picture, an error appears, even though a picture is mandatory.

- **Recommendation:** Ensure appropriate validation messages are displayed based on the upload status. The system should differentiate between an **already uploaded** image and a **new upload requirement**.

1.8 Spelling Correction

- **Issue:** The spelling of **Licence** should be corrected to **LICENSE**.

- **Recommendation:** Update the spelling in all relevant sections to maintain consistency.

2. Recommendations Summary

Issue	Current Behaviour	Recommended Fix
Employee ID Validation	Incorrect error message displayed	Update validation logic for correct field-based error messages
Email Validation	Accepts invalid email formats	Implement strict email format validation
Page Refresh & Duplicate Submission	Success message persists, causing duplicate submissions	Clear success message & prevent duplicate submissions
Mandatory Field (City)	Form submits without City input	Enforce mandatory validation for City field
Postal Code Validation	Accepts special characters	Restrict input to numeric values only
License Number Validation	Accepts special characters	Restrict format to **"PMDC-12345"** structure
Picture Upload Issue	Incorrect error messages for uploads	Ensure correct validation messages for uploads
Spelling Correction	"Licence" spelling error	Correct to "LICENSE"

3. Conclusion

The issues identified in this QA report should be addressed to improve form validation, user experience, and data integrity. Implementing these fixes will enhance the usability and accuracy of the **DATABASE FORM** system.