TITLE:

Security Features of Semester Project

Student Name:

Urwah Rasheed

Registration No:

03-3-1-055-2022

Subject:

Internet Application Development

Submitted to:

Mr. Irfan Hameed

Submitted Date:

May 13, 2025



Pakistan Institute of Engineering and Applied Sciences

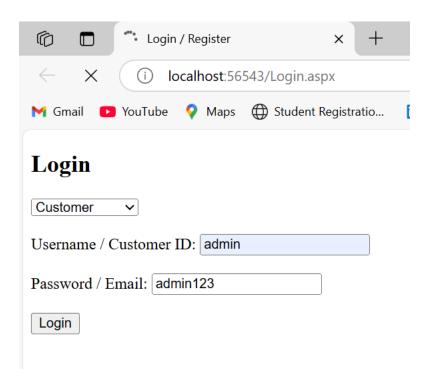
Problem 3

Develop test cases for all security features and prepare a report about testing of security features?

Solution:

Test Case 1: Role-Based Access Control

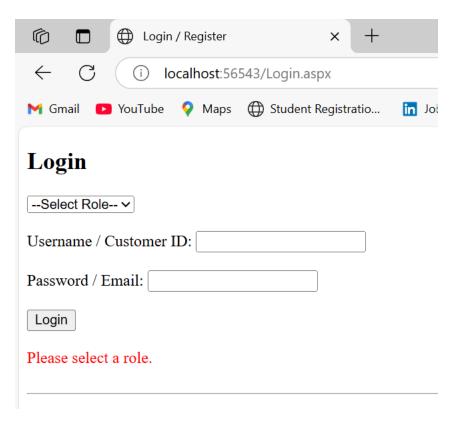
- Test: A Customer tries to access the Admin Dashboard URL.
- Expected Result: Access denied or redirected to login.
- Outcome: Access was blocked/stucked.



Test Case 2: Input Validation

- **Test**: Try submitting empty or invalid data in forms.
- **Expected Result**: Error shown and form not submitted.
- Outcome: Inputs were blocked correctly.

IAD_LAB_13



Test Case 3: SQL Injection Attempt

- **Test**: Use 'OR '1'='1 in login form.
- Expected Result: Login fails.
- Outcome: Application prevented injection.

Login Admin Username / Customer ID: '1' Password / Email: urwab06@gmail.com Login

Invalid admin credentials.

IAD_LAB_13

Test Case 4: Session Expiry

- **Test**: Manually expire session, then try accessing protected pages.
- **Expected Result**: Redirected to login.
- Outcome: Proper redirection handled.

Test Case 5: Form-Based Authentication

- **Test**: Enter incorrect login credentials.
- Expected Result: Access denied with custom error message.
- Outcome: Message shown, login blocked.



Test Case 6: Error Handling

- **Test**: Deliberately trigger an internal error.
- **Expected Result**: User-friendly message shown.
- **Outcome**: Application handled it gracefully.

Test Case 7 : HTTPS Deployment (Pending)

- **Test**: Deploy the site on HTTPS-enabled server.
- **Expected Result**: All data transfers encrypted.
- **Outcome**: Pending deployment.

IAD LAB 13

experience for both admins and customers.						