

COMP S350F

Software Engineering

Group Project

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1. Validation Testing

1. Verify that the login password field requires at least 8 characters:
 - Test the login page and make sure the password is at least 8 characters.
 - Verify that the system displays an error message when a user enters a password of less than 8 characters.
2. Verify whether an error message is displayed when logging into the website when entering an invalid password:
 - Test logging in with an invalid password to verify that the system correctly detects the invalid password and displays an appropriate error message.
3. Verify whether an error message is displayed in changing password system when "password" and "password confirmation" are different:
 - Test whether the system detects and displays an error message when the "password" and "password confirmation" entered by the admin are different.
4. Verify that admin can edit student's personal information:
 - Test whether the admin can successfully edit a student's personal information, such as name, contact information, etc. Make sure the system saves changes and displays updated information correctly when needed.
5. Verify whether can show student's academic grade correctly:
 - Test whether the system shows the correct grade.

2. Defect Testing

1. Test the system's response when a user enters an incorrect password multiple times and triggers an account lockout:
 - Test to verify whether the system correctly locks the account and prevents further login attempts when a user enters an incorrect password multiple times in a row.
2. Test whether the system correctly handles simultaneous logins from multiple devices:
 - Test that the same user logs in simultaneously on different devices to verify whether the system can correctly handle and maintain the consistency of the user's login status and information.
3. Test the "Remember Me" function:
 - Test using the "Remember Me" function to ensure that they visit without having to re-enter their account and password next time.
4. Verify that the login form has proper input validation to prevent SQL injection or other security vulnerabilities:
 - Test input of special characters or malicious input into login forms to verify that the system correctly detects and prevents potential security vulnerabilities, such as SQL injection attacks. Ensure the system can properly process and filter input to protect the security and integrity of data.
5. Verify the "forgot password" function:
 - Confirm that the "Forgot Password" link/button is displayed correctly and functional, allowing the user to reset their password.
 - Verify whether the password reset email is successfully sent to the user's registered email address.
 - Ensure that the password reset link provided in the email is valid and allows the user to successfully reset their password.

3. Development Testing

