Team 8- Take Home Assignment

Story	Developer	Tester
As a customer, in order to quickly file a claim at any time without having to visit an office or speak with an agent, I would like to do the whole process to be smooth.	Cyrus Yang	Joshua Zuker
As a customer, I would like to have a modern and easy login experience.	Kyle Williamson	Joshua Zuker
As a customer, I would like to sign up for an account easily, to avoid too much complicated and useless information.	Tejae Whitley	Julianna Silva
As a customer, I expect a clear and modern dashboard that provides a real-time overview of my claim when I'm logged in.	Tejae Whitley, Kyle Williamson	Cyrus Yang
As a customer, I would like to edit my account information, like phone number, and email.	Jiaye Chen	Tejae Whitley
As a customer, I'd like to delete the account when I'm not using it.	Jiaye Chen	Kyle Williamson
As an insurer, I would like to sign up for an account in autoclaims to start doing claims adjustments.	Cyrus Yang	Tejae Whitley
As the insurer, I want to be able to update the status of the claim, so that I can notify the customer.	Joshua Zuker	Julianna Silva
As an insurer, I want to be able to access all the submitted claims through an	Joshua Zuker	Kyle Williamson

intuitively designed dashboard, so I am able to organize my workload well.		
As an administrator, I want my users' important information, such as passwords, will not be leaked, so I hope to use * instead of password characters on the login page.	Cyrus Yang	Jiaye Chen
As an administrator, I want to easily switch user types on the login page so that every user can log in correctly.	Kyle Williamson	Jiaye Chen
As an administrator, I want accessibility to view all customers, advisors, claims and policies.	Julianna Silva	Cyrus Yang

Problem Reports:

Problem Report Number: 001

Reported By: Kyle Williamson

Date Reported: March 23, 2024

Program (or Component) Name: Claims Management System

Configuration(s): Mac Sonoma, JavaFX 11, SQLite 3.28.0

Report Type: Coding Error

Can Reproduce: Yes

Severity: High

Priority: High

Problem Summary: Unable to view claim details in the Claims Management System.

Key Words: Claim details, viewing error, JavaFX.

Description: When attempting to view the details of a claim within the Claims Management System, the details page remains blank, with no error message presented to the user.

Steps to Reproduce:

1. Log in to the Claims Management System with a valid user account.
2. Navigate to the "Claims Overview" section from the main menu.

3. Click on any claim listed to view its details.

Expected Result: The details of the selected claim are displayed, including date, claimant name, amount, and status.

Actual Result: The details page is displayed, but no claim details are visible. The page remains blank.

Suggested Fix: Review the event handler associated with the "View Details" action. Ensure it properly queries the SQLite database for the selected claim's details and populates the JavaFX details view component. Also make sure the scene is set up properly and the fxml file works.

Status: Open

Resolution: (To be filled out by the project manager or developer upon resolving the issue)

Problem Report Number: 002

Reported By: Tejae Whitley

Date Reported: March 24, 2024

Program (or Component) Name: Claims Management System

Configuration(s): Windows11, JavaFX 11, SQLite 3.28.0

Report Type: Coding Error

Can Reproduce: Yes

Severity: Moderate

Priority: Low

Problem Summary: Invalid information can be inputted into the wrong places when updating user information.

Key Words: Account Edit, Exception, JavaFX.

Description: When you input invalid information, such as a word into the phone number text field, it still gets saved. Something like this can be a concern for when customers apply for policies or file claims and their information is completely invalid.

Steps to Reproduce:

1. Navigate to the customer home dashboard through the login page.
2. If not already there, redirect the page to the home dashboard with the "Home" button on the left side menu.
3. Click the "Edit" button located under the account information.

4. Enter new invalid information in the corresponding text fields.
5. Click the "Save" button.
6. A pop up window should appear, click "Ok" to save the changes
7. Click the "Cancel" button to return to the home screen.

Expected Result: Invalid user information should not be allowed to be saved. An exception should be thrown.

Actual Result: User information was saved and updates were made to the account information on the home screen and in the database.

Suggested Fix: Create an input validation class that checks if all inputs receive the proper information is the correct way. Different methods and exceptions to validate the information should be made.

Status: Open

Resolution: (To be filled out by the project manager or developer upon resolving the issue)

Problem Report Number: 003

Reported By: Tejae Whitley

Date Reported: March 24, 2024

Program (or Component) Name: Claims Management System

Configuration(s): Windows11, JavaFX 11, SQLite 3.28.0

Report Type: Coding Error

Can Reproduce: Yes

Severity: High

Priority: High

Problem Summary: A null pointer exception occurs when a registration attempt is made.

Key Words: Registration, Null Exception, JavaFX.

Description: The selector box for the administration code does not work and a null pointer exception occurs at the attempt of a user registration.

Steps to Reproduce:

1. Navigate to the registration page from the login page.
2. Enter user information.
3. Click the "Confirm" button located at the bottom.
4. An automatic redirection to the login page will occur.

Expected Result: Inputted user information should be sent to the customer database and the page should be redirected to the login screen.

Actual Result: Administrative code text field encountered an error. The field was null and the process wasn't completed.

Suggested Fix: Complete the functionality for the selector box with an array list and proper initialization in the registration controller. Verify that a value is assigned to the administration code text field properly.

Status: Open

Resolution: (To be filled out by the project manager or developer upon resolving the issue)

Assigned Stories to Jiaye Chen

1. As an administrator, I want my users' important information, such as passwords, will not be leaked, so I hope to use * instead of password characters on the login page.

Problem Report

• Problem report number: 1

• Reported by Jiaye Chen

• Date reported Mar 23, 2024

• Program name: AutoClaim

• Release number: Gruppe8team#70

• Version (build) identifier: 4.0.0

• Configuration(s): HW and SW configurations: Apple M2, Java 21

• Report type: design issue

• Can reproduce: yes

• Severity: low

• Priority: low

• Problem summary: No length limit for password settings.

• Key words: password

• Problem description and how to reproduce it:

- The current implementation of the password settings allows users to set any passwords without restrictions.

- This poses a security risk as it can potentially allow weak or easily guessable passwords, increasing the vulnerability of user accounts.

- To reproduce:

    1. Access the password settings page in the application.

    2. Attempt to set a password of excessively long length.

    3. The system accepts the password without any warnings or errors, allowing the user to proceed.

• Suggested fix

- Implement validation for password length in the password settings to enforce a minimum and maximum password length.

- Add password requirements, such as forcing the addition of uppercase and lowercase letters, numbers, and symbols

- Define reasonable limits for passwords to improve security without inconveniencing users.

- Display clear error messages if users attempt to set passwords that don't satisfy the requirement.

- Provide guidance on creating strong passwords to encourage users to choose secure passwords within the specified length range.

• Status: Open

• Resolution: pending

• Resolved by:

• Problem report number: 2

• Reported by Jiaye Chen

• Date reported Mar 23, 2024

• Program name: AutoClaim

• Release number: Gruppe8team#70

• Version (build) identifier: 4.0.0

• Configuration(s): HW and SW configurations: Apple M2, Java 21

• Report type: Code Smell

• Can reproduce: yes

• Severity: low

• Priority: low

• Problem summary: userDAO Code is not standardised

• Key words: SQL, configuration

• Problem description and how to reproduce it:

- userDAO() method in registerGUIController

- The code is not standardised, and the database configuration should be written uniformly in the configuration file.

- To reproduce:

    1. Open registerGUIController.java and find userDAO().

• Suggested fix

- Move the code to the configuration file.

• Status: Open

• Resolution: pending

• Resolved by:

2. As an administrator, I want to easily switch user types on the login page so that every user can log in correctly.

Problem Report

• Problem report number: 1

• Reported by Jiaye Chen

• Date reported Mar 23, 2024

• Program name: AutoClaim

• Release number: Gruppe8team#70

• Version (build) identifier: 4.0.0

• Configuration(s): HW and SW configurations: Apple M2, Java 21

• Report type: design issue

• Can reproduce: yes

• Severity: high

• Priority: high

• Problem summary: unable to distinguish the user type registered by the user

• Key words: user type, registration

• Problem description and how to reproduce it

-When users attempt to register for a specific user type, the registration could not sign up users to the correct user type they selected on the sign in page

-Steps to reproduce:

1. Users select their user type in the sign in page.

2. Open the registration page.

3. Enter the required registration information (e.g., username, password, email address).

4. Click on the "Register" button to submit the registration request.

5. The user signed up, but doesn;t have a specific user type.

• Suggested fix:

-Review the registration process code to ensure proper handling of the user-selected user type.

-Ensure that the database schema and logic are properly associated with user types, and that the registration process can handle the selected user type correctly.

-Provide clear error messages on the user interface to inform users about the reason for registration failure and potentially offer further explanations or solutions.

• Status: Open

• Resolution: pending

• Resolved by

• Problem report number: 2

• Reported by Jiaye Chen

• Date reported Mar 24, 2024

• Program name: AutoClaim

• Release number: Gruppe8team#70

• Version (build) identifier: 4.0.0

• Configuration(s): HW and SW configurations: Apple M2, Java 21

• Report type: code issue

• Can reproduce: yes

• Severity: high

• Priority: high

• Problem summary: user class does not contain user type

• Key words: user type

• Problem description and how to reproduce it

-When a user logs in, they log in only based on the user type they clicked, not the actual type of the user.

-Steps to reproduce:

1. Users select their user type in the sign in page.

2. The user enters the email password and completes the login.

• Suggested fix:

-Create a new userType string in User Class.

• Status: Open

• Resolution: pending

• Resolved by

Problem Report Number: 001

Reported By: Cyrus

Date Reported: March 24, 2024

Program (or Component) Name: Claims Management System

Configuration(s): Thinkpad T440p, , JavaFX 11, SQLite 3.28.0

Report Type: Database error

Can Reproduce: Yes

Severity: Severe

Priority: High

Problem Summary: Connection to localhost:5432 refused when attempting to access the

Key Words: Claim details, viewing error, Database

Problem description and how to reproduce it:

- Create a non admin account

- The code is not standardised, and the database configuration should be written uniformly in the configuration file.

• Suggested fix

- Database needs to be overhauled.

• Status: Open

• Resolution: pending

• Resolved by:

Problem Report Number: 002

Reported By: Cyrus

Date Reported: March 24, 2024

Program (or Component) Name: Claims Management System

Configuration(s): Thinkpad T440p, , JavaFX 11, SQLite 3.28.0

Report Type: LoadException

Can Reproduce: Yes

Severity: Severe

Priority: High

Problem Summary: FXML has null reference leading to a LoadException

Key Words

Problem description and how to reproduce it:

- attempt to login with default admin/admin accounts

• Suggested fix

- Database needs to be overhauled.

• Status: Open

• Resolution: pending

• Resolved by:

Reported By: Julianna Silva

- Assigned user story 1: As a customer, I would like to sign up for an account easily, to avoid too much complicated and useless information.
  - Problem Report Number: 1.1
  - Date Reported: March 23, 2024
  - Program (or Component) Name: Claims Management System
  - Configuration(s): Mac Sonoma 14.4, Eclipse JEE 4.30, JavaFX 11, SQLite 3.28.0
  - Report Type: Coding Error
  - Can Reproduce: Yes
  - Severity: High
  - Priority: High
  - Problem Summary: Unable to sign up as a new customer due to not being able to input or select administration code
  - Key Words: customer sign up, administration code, NullPointerException
  - Description: When attempting to sign up as a new customer, user is unable to select administration code on the dropdown arrow menu, and inputting anything on the input field leads to a Null Pointer Exception
  - Steps to Reproduce:
    1. Click on "Sign Up" from the Claims Management System login page
    2. Fill out all fields of information
    3. Try to click on the dropdown menu from the Administration Code field
    4. Click "Save" after all fields are filled
  - Expected Result: The customer sign up is successful and a confirmation message is displayed, customer should be able to login with newly created credentials and enter customer home page
  - Actual Result: The sign up page remains the same after clicking "Save", no error message displayed on the GUI, no indication of fields with wrong information
  - Suggested Fix: Review onConfirm method from the registerGUIController class, the value of the local variable adminPass is not being used, but the administration code field still takes some input from the GUI. Integrate adminPass to the backend of customer signup and link it to javaFX in order to take user input.
  - Status: Open
  - Resolution: (To be filled out by the project manager or developer upon resolving the issue)

  - Problem Report Number: 1.2
  - Date Reported: March 23, 2024
  - Program (or Component) Name: Claims Management System
  - Configuration(s): Mac Sonoma 14.4, Eclipse JEE 4.30, JavaFX 11, SQLite 3.28.0
  - Report Type: Coding Error

- ○ Can Reproduce: Yes
- ○ Severity: High
- ○ Priority: High
- ○ Problem Summary: system doesn't check for invalid inputs upon customer sign up
- ○ Key Words: customer sign up, invalid inputs, Exception
- ○ Description: When attempting to sign up as a new customer, user is able to add invalid inputs to information fields such as emails with no "@", letters on phone numbers, etc
- ○ Steps to Reproduce:
    1. Click on "Sign Up" from the Claims Management System login page
    2. Fill out all fields of information with invalid inputs
    3. Click "Save" after all fields are filled
- ○ Expected Result: System does not accept the invalid inputs and displays error information for the user indicating what input field are invalid
- ○ Actual Result: user is able to add invalid information to all fields and sign up process goes through
- ○ Suggested Fix: create a method to validate user input before it is passed to user creation and added to database
- ○ Status: Open
- ○ Resolution: (To be filled out by the project manager or developer upon resolving the issue)

Reported By: Julianna Silva

- ● Assigned user story 2: As the insurer, I want to be able to update the status of the claim, so that I can notify the customer.
    - ○ Problem Report Number: 2.1
    - ○ Date Reported: March 23, 2024
    - ○ Program (or Component) Name: Claims Management System
    - ○ Configuration(s): Mac Sonoma 14.4, Eclipse JEE 4.30, JavaFX 11, SQLite 3.28.0
    - ○ Report Type: Coding Error
    - ○ Can Reproduce: Yes
    - ○ Severity: High
    - ○ Priority: High
    - ○ Problem Summary: Unable to login as Advisor with valid credentials
    - ○ Key Words: advisor login, constructLoadException, fileNotFoundException
    - ○ Description: When attempting to login as an advisor with valid credentials, application shuts down and a constructLoadException is thrown
    - ○ Steps to Reproduce:
        1. Select "Advisor" from the user dropdown menu
        2. Enter valid username and password
        3. Click "Sign In"
    - ○ Expected Result: the advisor sign in is successful and user is redirected to the advisor home page in order to view claims and update status

- Actual Result: System shuts down completely with no indication of want went wrong on the GUI, console indicates file not found for the advisor home fxml file and throws a constructLoadException
- Suggested Fix: add the fxml file for the advisor dashboard, on the backend advisor sign in appears to go through but since there is no advisor fxml file it causes an error from the javaFX integration
- Status: Open
- Resolution: (To be filled out by the project manager or developer upon resolving the issue)

Problem report number 001

• Reported by Joshua Zuker

• Date reported 03/24/24

• Program (or component) name: Claims Management System

• Release number Gruppe8team#70

• Version (build) identifier 4.0.0

• Configuration(s): HW and SW configurations Java 21, JavaFX version 22

• Report type: e.g., coding, design issue, etc. Design Issue

• Can reproduce: Yes

• Severity: Low

• Priority: Low

• Problem summary: Duplicate code in LoginController.java

• Key words Evaluate login credentials

• Problem description and how to reproduce it: Duplicate code is used multiple times within the if statement, making it a bit messy.

• Suggested fix: Methods containing the code block could be created so the code does not have to be duplicated.

• Status: Open

• Resolution: pending

• Resolved by

Problem report number 002

• Reported by Joshua Zuker

• Date reported 03/24/24

• Program (or component) name: Claims Management System

• Release number Gruppe8team#70

• Version (build) identifier 4.0.0

• Configuration(s): HW and SW configurations Java 21, JavaFX version 22

• Report type: e.g., coding, design issue, etc. Design Issue

• Can reproduce: Yes

• Severity: Low

• Priority: Low

• Problem summary: Extraneous comments in Claims.java

• Key words Claims

• Problem description and how to reproduce it: Multiple comments have been created describing every element, giving it a long and messy appearance.

• Suggested fix: Instead of writing these comments, they could be replaced with an explanation on why the methods are used, and if the names of the methods are unclear, they can be renamed.

• Status: Open

• Resolution: pending

• Resolved by