

# **SENG 275: Software Testing**

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## **Lab 8: Exploratory, Manual and Scripted Testing**

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*Lab Section: B-03*

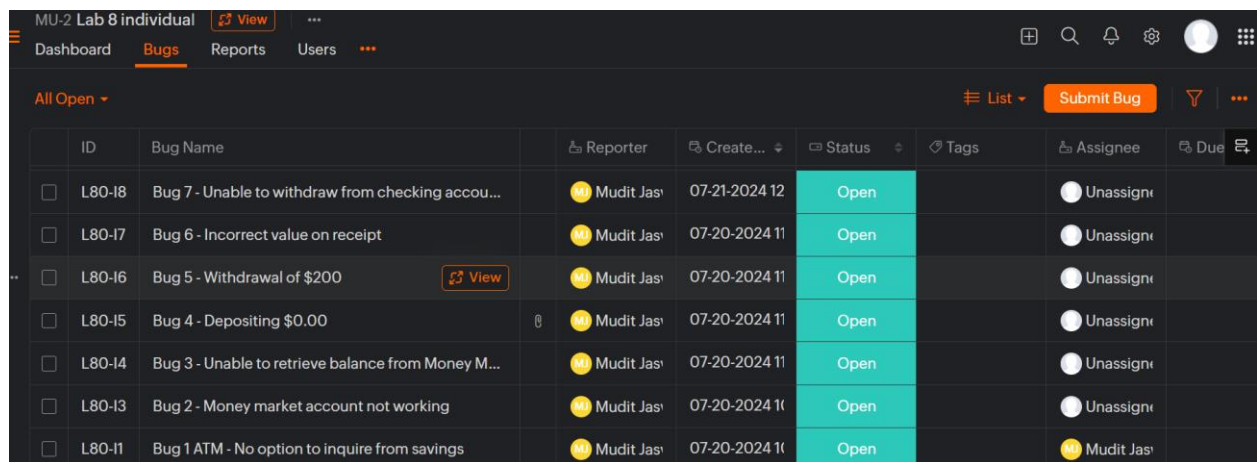
*Lab Due Date: July 25, 2024*

## Testing plans:

The exploratory testing focused on various functionalities of the ATM system including withdrawals, deposits, balance inquiries, and handling of different account type. The main goal was to identify defects in the system's behavior. However, the tests were not as structured when performing exploratory testing.

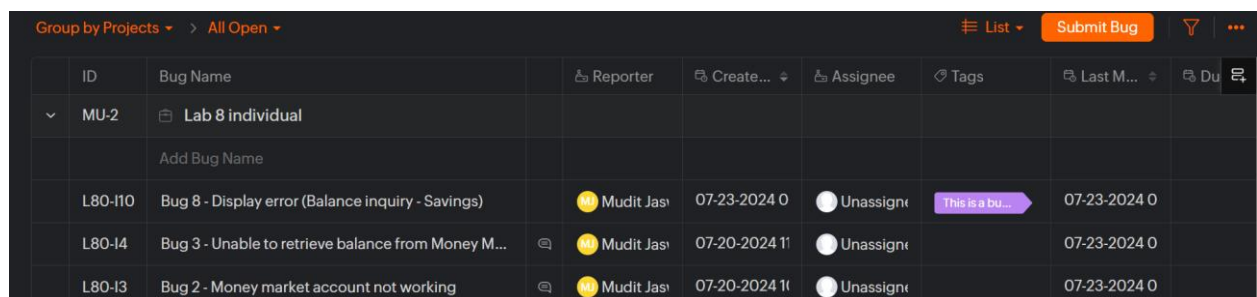
Approach:

- Focused on both common user paths and the edge cases.
- Testing a variety of functions with different inputs randomly.
- Testing unusual paths like attempting to depositing zero dollars.



	ID	Bug Name	Reporter	Create...	Status	Tags	Assignee	Due
<input type="checkbox"/>	L80-I8	Bug 7 - Unable to withdraw from checking accou...	Mudit Jas	07-21-2024 12	Open		Unassigne	
<input type="checkbox"/>	L80-I7	Bug 6 - Incorrect value on receipt	Mudit Jas	07-20-2024 11	Open		Unassigne	
<input type="checkbox"/>	L80-I6	Bug 5 - Withdrawal of \$200	Mudit Jas	07-20-2024 11	Open		Unassigne	
<input type="checkbox"/>	L80-I5	Bug 4 - Depositing \$0.00	Mudit Jas	07-20-2024 11	Open		Unassigne	
<input type="checkbox"/>	L80-I4	Bug 3 - Unable to retrieve balance from Money M...	Mudit Jas	07-20-2024 11	Open		Unassigne	
<input type="checkbox"/>	L80-I3	Bug 2 - Money market account not working	Mudit Jas	07-20-2024 11	Open		Unassigne	
<input type="checkbox"/>	L80-I1	Bug 1 ATM - No option to inquire from savings	Mudit Jas	07-20-2024 11	Open		Mudit Jas	

Screenshot 1: Some Bugs documented by Mudit on Zoho



	ID	Bug Name	Reporter	Create...	Assignee	Tags	Last M...	Du
▼	MU-2	Lab 8 individual						
		Add Bug Name						
	L80-I10	Bug 8 - Display error (Balance Inquiry - Savings)	Mudit Jas	07-23-2024 0	Unassigne	This is a bu...	07-23-2024 0	
	L80-I4	Bug 3 - Unable to retrieve balance from Money M...	Mudit Jas	07-20-2024 11	Unassigne		07-23-2024 0	
	L80-I3	Bug 2 - Money market account not working	Mudit Jas	07-20-2024 11	Unassigne		07-23-2024 0	

Screenshot 2: Version 1.1

## Review Notes

After individually performing exploratory testing, I compared my defects lists with the ones provided in Appendix E. Each had somewhat similar bugs and I modified them further.

- Issues with balance inquires and money market account
- Problems with withdrawing specific amounts
- Bugs related to system crashing when invalid PINs were entered multiple times

### Notes:

- I attempted to recreate defects in Appendix E to validate them. This process helped in verifying the accuracy of the reports and ensuring that all the steps were documented.
- Then I reviewed severity and priority of each defect to align my understanding which helped in prioritizing which defects to address first during regression testing.
- Minor UI issues were considered as low priority.
- I learned different approaches to exploratory testing by comparing my initial tests with the ones provided in the table.

## Pair Testing and Challenges:

As I worked alone on this lab, I recorded the defects and determined the test order. I tried discussing my bugs with one of the peers from the lab to help myself uncovering missed defects.

I closed the defects that were not present in the updated version of the ATM system and reopened the ones that were still present and active. I also referred to Appendix E of the lab 8 instructions file to conduct tests and find bugs. I tested each one of the tests given in the table and then updated/added bugs respectively on Zoho.

### Challenges:

- Initially, I faced issues with accessing the Zoho bug tracker and setting up our project.
- Some defects were hard to recreate consistently
- Some challenges included scheduling a suitable time for both partners (had a partner to work with initially).
- Defect report lacked the required details and clarity, so I tried and modified a few steps and included a clearer description of bugs.

## Feedback on the lab:

- The lab provided hands on experience with exploratory and scripted testing.
- Instructions were clear but could benefit from more examples of well documented defect reports.

- Maybe a brief tutorial on using the Zoho bug tracker could be included for first time users as we saw a lot of the peers struggling to understand it.
- The time was sufficient and all in all the lab was very useful, and a lot of new things were learned in the process.