

Lessons Learnt

- This assignment is vast and requires lot of time understanding the logic for appropriate implementation of the code.
- So while implementing the code there were some compilation and runtime errors.
- Though, JVM arguments and the external library imports were taken care of, the javaFX Main.java had some issues in executing error-free. The issue was that as the Controller file was developed independently it wasn't linked to Main.fxml file.
- Another issue was that Reading and writing through files used to empty (overwrite) the files with some content even when the compiler displayed no error. The issue was that try-catch block had to be used to handle the files.
- While executing query statements for storing file contents to SQL Lite, the compiler threw an error "Primary Key Constraint". The reason is attempting to store the file contents again where contents already existed in SQL Lite.
- Sometimes Boolean FLAGS that are used to control the flow of the program would throw an error if they aren't used properly. I had used Flags for checking Negative cases which didn't work as intended. The Flags weren't reset to 0/false which cause some issues while testing cases. I had to check the execution logs to understand where it went wrong. Through deep checks, I was able to trace the issues and then solve it.
- Using lambda expressions to read files could print the output as intended but display an IndexOutOfBounds Exception. Despite inspecting the code the cause wasn't traced. So, I used try-catch block to catch the exceptions and avoid execution of program.
- Through this course and after a lot of practice in completing this assignment, I learnt a lot of concepts and ways of how a problem could be solved but keeping the complexity in consideration. Finally, I would consider these problems and concepts in my future projects in effectively developing a solution for a problem.