STLC

* STLC stands for Software Testing Life Cycle
  + It starts at the Testing Phase of SDLC (Software Development Life Cycle)
* STLC consist of 6 phases

1. REQUIREMENT ANALYSIS
   1. This is where the;
      1. Requirement/ User Stories/ Acceptance Criteria is understood
      2. Which layer of the application it will be used on (UI, Front-end, API etc.)
      3. How it will be tested (Manual or AUTO)
2. TEST PLAN
   1. After the requirements are thoroughly analyzed a Test Plan is created by Team Lead/ QA Lead
   2. Components of the Test Plan are:
      1. Scheduling
      2. Strategy (Scope of Testing)
      3. Tools
      4. Resources
      5. Roles & Responsibilities
      6. Risk & Mitigation
      7. Approval
3. TEST CASE CREATION
   1. QA creates a test case document per req / User Stories (There is at least one test case for one user story)
   2. There are 2 types of Test Cases:
      1. Positive
         1. We use Valid Data
      2. Negative
         1. Invalid Data/ No data
   3. Test Cases have 2 types:
      1. Manual - (Where each step is written manually)
      2. Cucumber – (Gherkin Language is used)
   4. Test Case Document consists of:
      1. Test ID Number
      2. Environment
      3. Test Steps
      4. Test Data
      5. Actual/ Expected Results
      6. Test Case Summary
4. TEST ENVIRONMENT SETUP
   1. Testers make sure all the new codes are deployed to the QA environment (So their environment)
5. TEST EXECUTION
   1. Both Man & AUTO testing are executed
   2. Comparison of the Expected Result & Actual Result are made
      1. If they DO NOT match Bug report is made
   3. No matter what the outcome is it is always a good practice to have PROOF OF EVIDENCE (This can be done by taking a screenshot of the IDE)
6. TEST CLOSURE
   1. After all test cases are executed & All the written bug reports are completely removed tests are closed
   2. Test Lead & Business Analysts Team generate reports to evaluate and learn from the process so that mistakes could be lessened to achieve better performance in the next Testing Life Cylce