

Best Practices For Writing Automation Test Code

- Follow Programming Language Guidelines (method name-getPayload(), class name- APIEndpoints, package name-com.testingsumo.backend.tests, variable name-authToken
- Follow Oops Concepts Wherever Possible- Abstraction(base classes),
 Inheritance(multiple implementation of same things/multiple inheritance),
 Polymorphism(many forms with something different), Data Hiding(hide unnecessary/sensitive info), Encapsulation(Bind small entities into a single large entity)
- Reduce code duplicacy (think before writing new code, can i use/make change in existing code?)
- Increase code reusability
- Make your code generic wherever possible
- Leave no hardcoded data in source code
- Keep your static data outside the source code
- Keep your dynamic data dynamic in testcode (fetch it from db queries or scripts)
- Test your code properly, use IDE options such as call heirarcy or show usage to test your changes end 2 end
- Use Extensive logging- everything which is part of source code should be analyzed from logs without looking at the source code
- Generate and save failure proofs outside the src codevideos/data/screenshots/logs

- Focus on making your code scalable and faster without compromising the code quality
- Your code should be platform and system independent
- Use as many assertions as possible focus on automated testing rather than automation
- Leave no hardcoded data in source code
- Always think for the future, separate out tech dependencies so that migration to new tech is easy in case it is needed
- Keep your tests independent for better results in multithreading unless they are related (example publisher subscriber related tests)
- Use Proper Documentation
- Create code which is can be easily read and modified by others