I have automated web-based test from the perspective of regression test and functional test. Following comparison of same scenario with different types of testing

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| Type of Test | Comment | Pros | Cons | Additional requirement |
| Smoke Test | Can be included in smoke test as adding product to cart is basic scenario | Helps to know early if the add item or buy product flow has any issue | This scenario is little time consuming from Smoke test perspective |  |
| Sanity Test | Can be included if there is error in the flow of product buy flow |  | Will not be able to add much value |  |
| Regression Test | Should be always included as this is most basic and essential functionality of application | Helps to cover basic functionality |  |  |
| Integration Test | Can be included to check if the api are working fine or not | Helps to catch the bug in early stage before verifying on UI |  | Needs API contract to be well defined |
| Unit Test | Code of this test can be reused to write initial stub's for new flows of product |  |  |  |