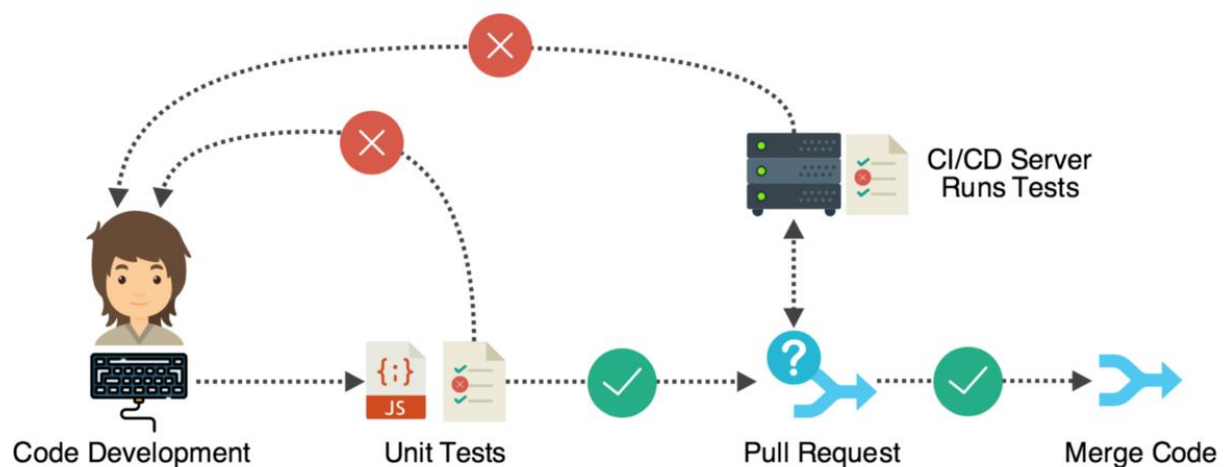


UNIT TESTING is a process of verifying and validating smaller parts of source code and the whole program. It is the beginning and a fundamental part of QA testing. Unit testing usually is done automatically but can be executed manually as well. Sometimes, DevOps teams use an inverse technique called TDD (Test Driven Development) to create software based on initial requirements. This means that a software development team writes test code before any production of solution code.

CircleCI is software that the team is using. It is great because it runs on a cloud and the environment is clean each time, this means no previous executions or code will be found in a new execution or unit testing. One unit test can have many jobs and builds. And the files have a .yaml extension.

Remember that unit testing is an important part of an AGILE philosophy and style of work these days. It reduces risks and delivers good quality software to the customer. CI stands for Continuous Integration, and this is the unit testing lifecycle described in the next image.



For our website connected to a database, some examples of unit testing can be verification that each web page is displayed correctly, buttons on each web page works correctly, connection to a database, access to information from the database and more.