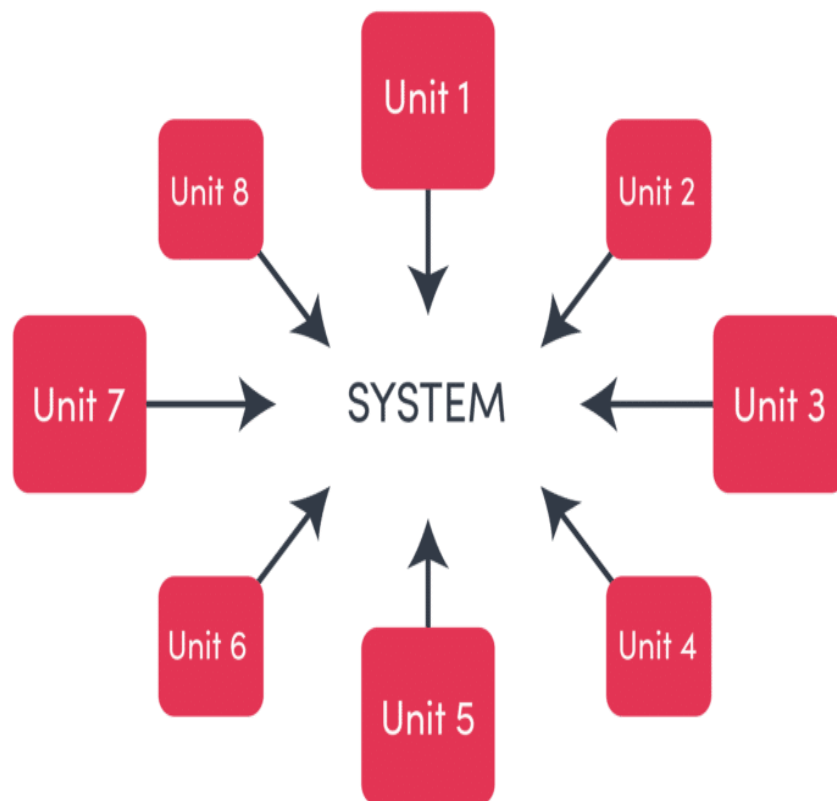
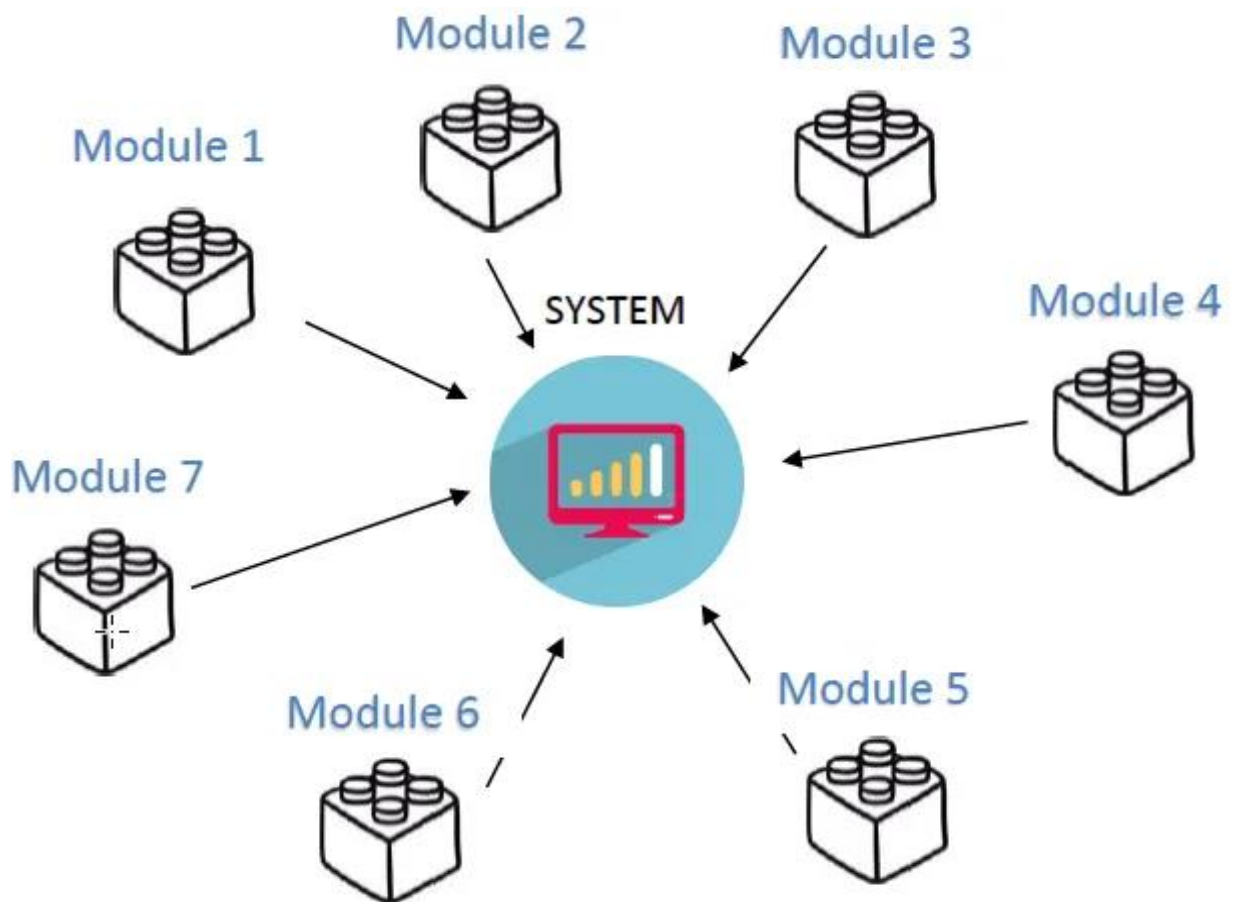


INTEGRATION TESTING, sometimes called I&T is the next level above unit testing, where individual and basic units are merged or integrated together in a sequence or parallel order. This means that unit testing starts to interact. The combination of all small units tested previously should work correctly and have the expected functionality working when connected. Tests and checks need to be performed again to assure good quality software is delivered to the customer.

The success of one integration test generates a valid subsystem ready to continue to build the final product. If the size of the project is small, the subsystem can be considered as the final system where manual testing, UI and functional testings should be applied.

The following images explain integration testing:





CircleCI is a great tool (software) to perform these tests. It has an extensive commands library to define the sequence of steps to be executed in the job (I&T). It has an option to choose the time to execute any test without interfering with the working hours of the team.

Some of the unit tests to perform on our website are the functionality of the links, the connection between the database and the webpages, test the security of the database, performance of the web on different browsers, etc.

Finally, integration testing has different approaches as Bing-bang, incremental, bottom-up, top-down and sandwich (mix between two previous).