SOFTWARE TESTING

UNIT TESTING

WHAT?

A UNIT TEST IS A WAY OF TESTING A UNIT – THE SMALLEST PIECE OF CODE THAT CAN BE LOGICALLY ISOLATED IN A SYSTEM. IN MOST PROGRAMMING LANGUAGES, THAT IS A FUNCTION, A SUBROUTINE, A METHOD OR PROPERTY.

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COMMON ELEMENTS

▸ Unit tests are low-level, focusing on a small part of the software system.

▸ Usually written these days by the programmers themselves using their regular tools.

▸ Unit tests are expected to be significantly faster than other kinds of tests.

WHY?

ADVANTAGES

▸ Speed

▸ Accuracy

HOW?

PARTS OF A TEST

▸ Identify test case

▸ Define assertions

▸ Mock Behaviour

TEST DRIVEN DEVELOPMENT

PARTS OF A TEST

▸ Identify test case

▸ Define assertions

▸ Mock Behaviour

▸ Write Code

THERE IS MORE.

RESEARCH

▸ Frameworks: Junit, Mockito, MockMvc

▸ Integration Testing

▸ Performance Testing

▸ Manual Testing

▸ More..