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WELCOME TO THE TESTING

EGO-CENTRIC INTRODUCION GOES HERE

FIVE FACTORS OF TESTING

THE ROLE OF TESTS

5 FACTORS COURTESY OF SARAH MEI

HTTPS://WWW.DEVMYND.COM/BLOG/FIVE-FACTOR-TESTING/

THE ROLE OF TESTS

VERIFY THE CODE IS WORKING CORRECTLY

THINK OF TESTS AS A WAY TO VERIFY THAT THE BEHAVIOUR OF SOMETHING IS WHAT YOU EXPECT IT TO BE

THINK OF TESTS AS 'A PROOF FOR YOUR CODE'

WHEN USING TDD YOU ARE WRITING A TEST AS IF THE CODE ALREADY WORKS...

...AND THEN WRITING CODE UNTIL THE TEST PASSES.

THE ROLE OF TESTS

PREVENT FUTURE REGRESSIONS

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AKA MAKING SURE NOTHING ELSE BREAKS WHEN YOU HAVE FIXED A BUG

PREVENT FUTURE REGRESSIONS

BUGS SHOULD NOT BE ZOMBIES. COMING BACK TO LIFE AFTER YOU HAVE FIXED THEM!

PREVENT FUTURE REGRESSIONS

TESTS CAN HELP ENSURE THAT NEW FEATURES OR REFACTORS DO NOT BREAK THINGS THAT ARE CURRENTLY WORKING AS EXPECTED

THE ROLE OF TESTS

DOCUMENT THE CODE'S BEHAVIOUR

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THE ONLY REAL UNICORN IN PROGRAMMING IS THE DEVELOPER WHO WILLINGLY WRITES DOCUMENTATION THAT OTHERS CAN ACTUALLY USE.

DOCUMENT THE CODE'S BEHAVIOUR

IF FOLKS ONLY LOOK AT YOUR TESTS. THEY SHOULD BE ABLE TO UNDERSTAND HOW TO USE THE CODE BEING TESTED.

DOCUMENT THE CODE'S BEHAVIOUR THE ROLE OF TESTS

PROVIDE DESIGN GUIDANCE

SINCE TESTS ARE CODE THAT VERIFIES OTHER CODE WORKS...

...A TEST CAN BE USED AS AN EXAMPLE OF HOW YOU 'DESIGN' THINGS

- > NAMING CONVENTIONS
 - > CODE STYLING
 - > API DESIGN
 - > INTERFACE USAGE

- > HIGHLIGHTS BRITTLE CODE
- > SURFACES DEPENDENCY ISSUES
- > REVEALS POTENTIAL REFACTORING TARGETS
- > SHOWS OPPORTUNITIES TO CREATE HELPERS FOR TESTS

UNLEARN THE CONCEPT OF THE TESTING PYRAMID

THE TESTING PYRAMID

- > LOWEST LEVEL IS UNIT TESTS
- > MIDDLE LAYER IS INTEGRATION TESTS
- > HIGHEST LEVEL IS FUNCTIONAL TESTS

'ANY BUG THAT GETS THROUGH YOUR SIEVES IS ONE THAT THE SIEVE ABOVE IT COULD NOT NOT DETECT'

AT THE END OF SIFTING ALL YOUR CODE THROUGH THE SIEVES YOU SHOULD BE LEFT WITH BUGS THAT REPRESENT VERY WEIRD EDGE CASES

OR BUGS FOR BEHAVIOUR THAT YOU DID NOT ANTICIPATE HAPPENING

BY HAVING REALLY GOOD SIEVES YOU CAN INSTEAD USE YOUR MENTAL ENERGY TO SOLVE ALL THE REALLY UNEXPECTED PROBLEMS YOU FIND

SLIDES

HTTPS://GRUMPY-LEARNING.COM/PRESENTATIONS/TEK2019