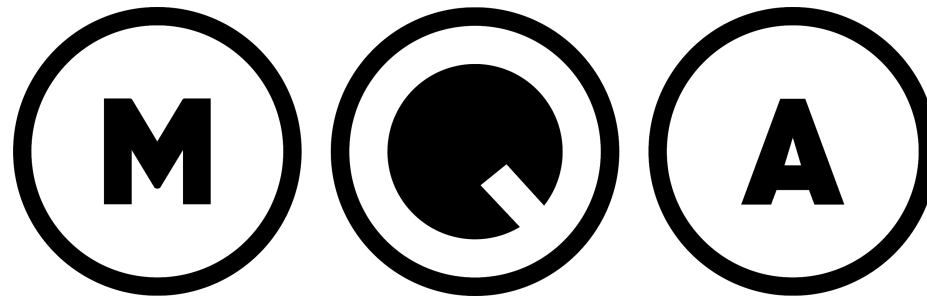


SOFTWARE TESTING FUNDAMENTAL

MQA Goes to Campus #2





Fransiska Maya Ariana

Sr. Quality Engineer at **Alterra**



fransiskaariana



Fransiska Maya Ariana



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LIST OF Content

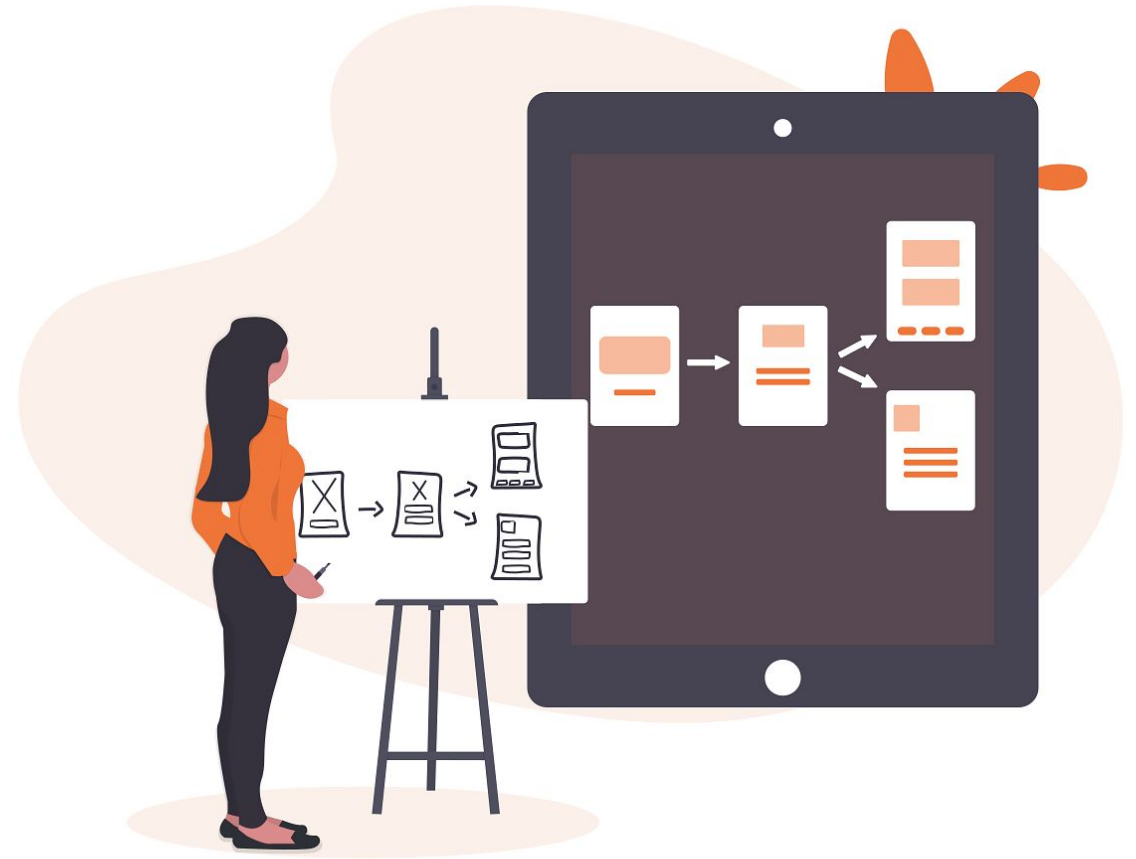
- Definition of Software Testing
- Software Testing Important
- Levels of Software Testing
- Types of Software Testing



SOFTWARE TESTING

A process of **analyzing a software item** to **detect the differences** between existing and required conditions (i.e., defects) and to **evaluate the features** of the software item.

(Menurut standar ANSI / IEEE 1059)





Software Testing
Important





STORY 1



Suncorp Bank* - Pada bulan Februari 2017, terdapat kegagalan pemakaian setelah melakukan **upgrade versi software**. Hal ini menyebabkan **hilangnya uang dari rekening bank pelanggan**. Keluhan pelanggan bertambah terutama terkait penarikan berlebih pada akun mereka dan terkuncinya akun mereka.

***Suncorp** is One of Australia's Largest Financial Services Brands Offering Home and Motor Insurance, **Banking**, Life Insurance, and Superannuation.



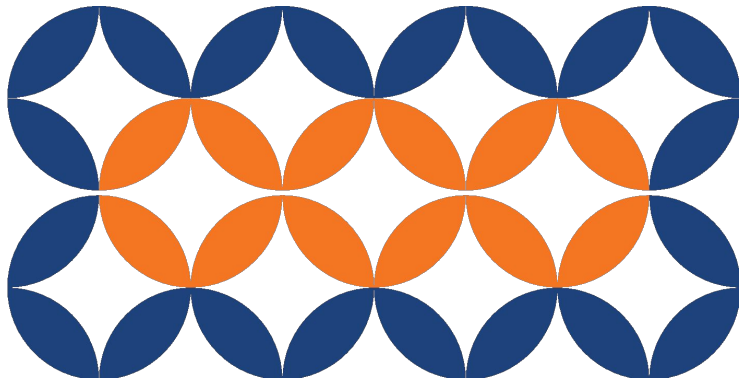
STORY 2



Pada tahun 1985, Terdapat **bug** yang halus disebut race condition, seorang teknisi **tidak sengaja dapat mengkonfigurasi** Therac-25 sehingga berkas elektron menembak dalam modus kekuasaan tinggi ke arah pasien. Sehingga menyebabkan **3 orang meninggal** dan **3 orang lainnya luka parah**



Software bugs could be **expensive or even dangerous**. Software bugs can potentially cause **monetary and human loss**

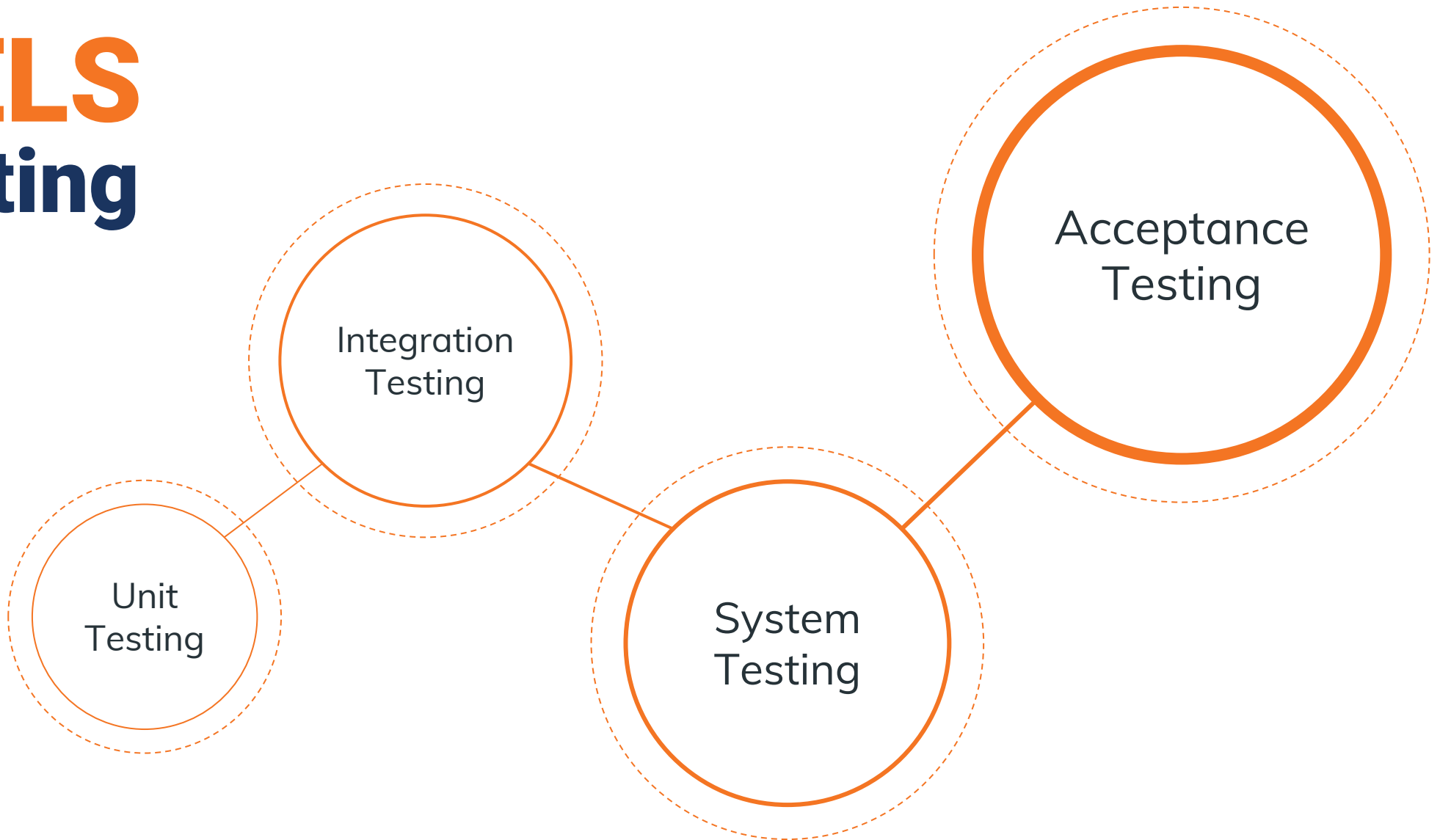


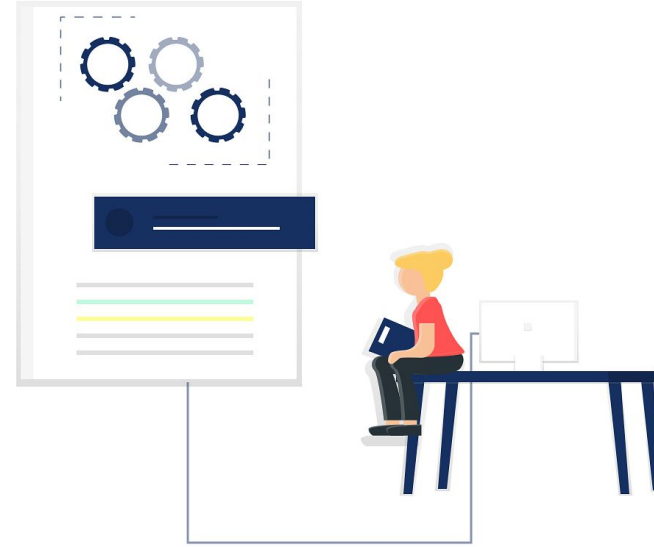
Levels of Testing



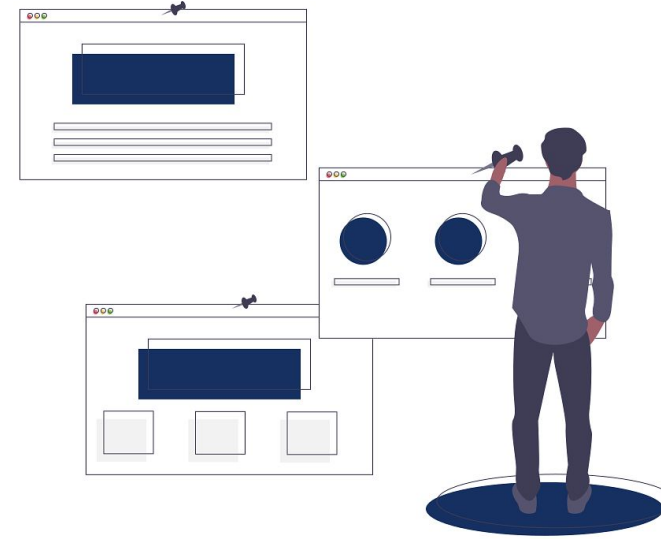


LEVELS of Testing





UNIT TESTING is a level of software testing where individual units / components of a software are tested



2 **INTEGRATION TESTING** is a level of software testing where individual units are combined and tested as a group.



3

SYSTEM TESTING is a level of software testing where a complete and integrated software is tested.



4



ACCEPTANCE TESTING is a level of software testing where a system is tested for acceptability.



Types Of Software Testing



TYPES OF SOFTWARE TESTING





“

“Testing a product is a learning process.”

- Brian Marick -

