

Unit Testing

Function to test another function

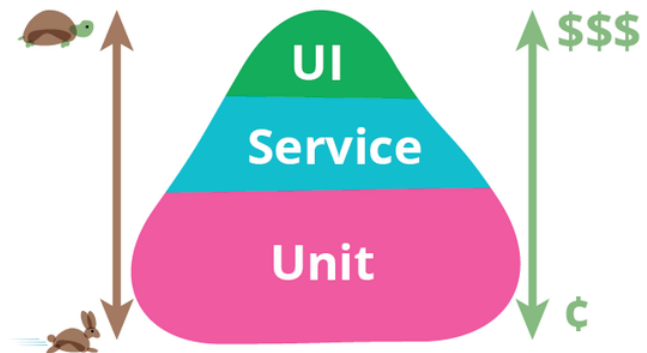
Software Development Life Cycle

- Requirement Gathering
- Design => System Aric. , UML => SRS
- Implementation => Writing Code
- Testing => Requirements, Performance, Security
- Deployment
- Maintenance

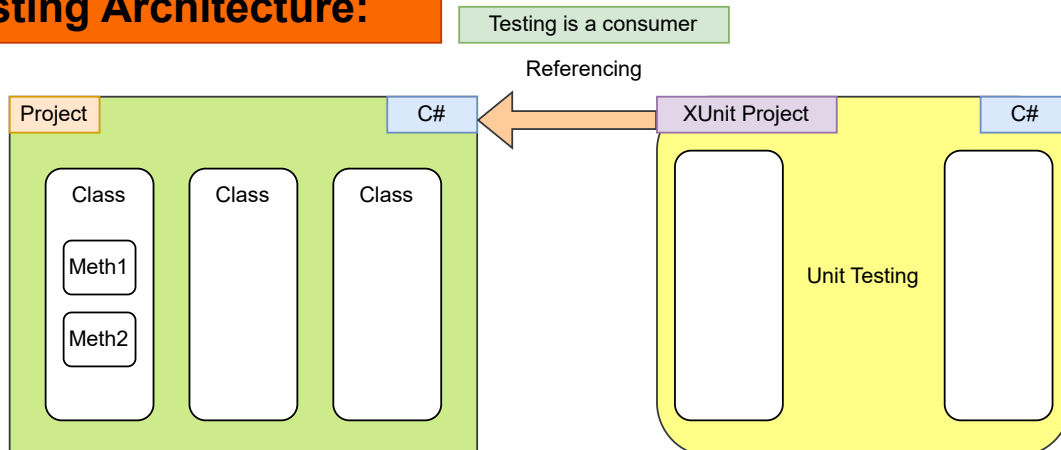
Testing Types

- Unit Testing => By Developers => white Box Testing
- Integration Testing => By Testers => Black Box Testing
- Acceptance Testing => By Customer

Testing Pyramid:



Testing Architecture:



Testing Framework:

- MSTest
- Nunit
- XUnit

Naming Conventional

Class => [ClassName]Tests
Method => [MethodName]_[TestCase]_[ExpectedOutput]

Test Pattern: [AAA]

Arrange => prepare data and objects
Act => Execute Method under the test case
Assert => check the result is as expected

Lab

- 1 boolean Assert
- 2 string Asserts
- 1 Collection Assert
- 1 Numeric Assert
- 2 Type Assert
- 1 Reference Assert
- 1 Exception Assert