# CEGEDIM INTERNSHIP 2022

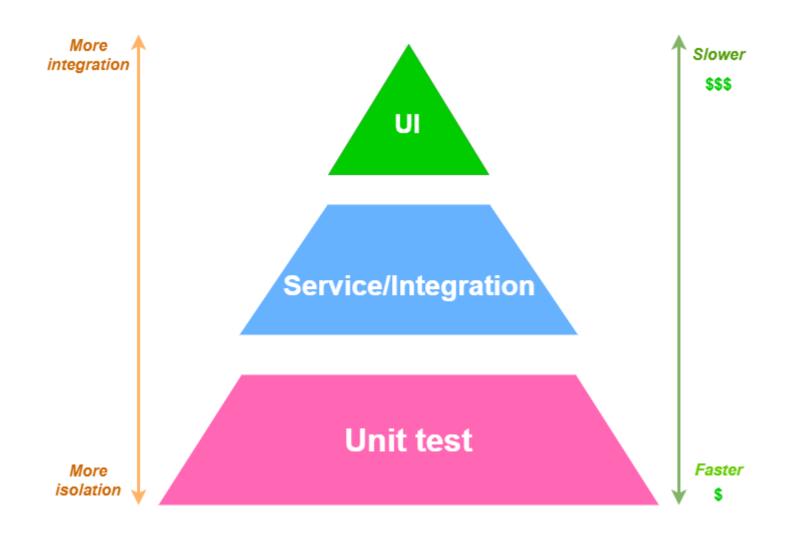
## UNIT TESTING

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### Pyramid of testing





#### Value based Testing

```
int square(int a){ return a*a;}

@Test
void testSquareOf3Is9(){
         assertEquals(9, square(3));
}
```



#### Property based Testing

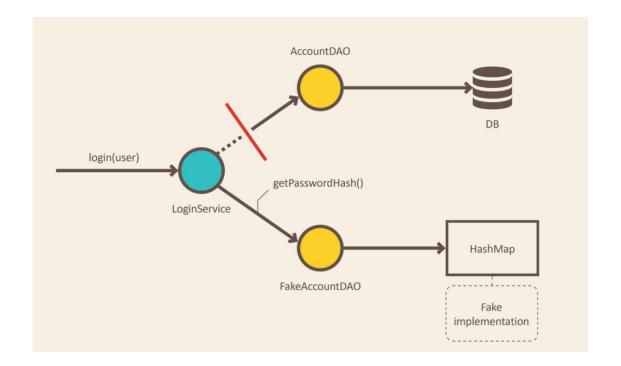
```
int add(int a, int b){ return a+b;}

@Test
void testAdditionIsCommutitive(){
    int a = new Random().nextInt();
    int b = new Random().nextInt();
    assertEquals(add(a,b), add(b, a));
}
```



#### Mocks and Spies

- Works very well when your code follows dependency injection.
- Allows complete unit tests in isolation from the rest of the application
- Fragile tests, need to be written with care





#### Refrences

 https://blog.pragmatists.com/test-doubles-fakes-mocksand-stubs-1a7491dfa3da?gi=2138571b0b08

 https://knplabs.com/fr/blog/mocks-fakes-stubs-dummy-etspy-faire-la-difference

 https://dev.to/codedivoire/how-to-mock-an-importedtypescript-class-with-jest-2g7j



Qs & As THANK YOU

