*Automation test for Web*

# Training Assignment

| Document Code | 25e-BM/HR/HDCV/FSOFT |
|---|---|
| Version | 1.1 |
| Effective Date | 20/05/2019 |

**Hanoi, 05/2020**

**RECORD OF CHANGES**

| No | Effective Date | Change Description | Reason | Reviewer | Approver |
|---|---|---|---|---|---|
| 1 | 20/May/2020 | Createw a new assignment | Create new | DieuNT1 | VinhNV |
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# Contents

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|---|---|
| CODE: | MBB_FTF_ATW_Assignment01_Opt1_v1.0 |
| TYPE: | Long |
| LOC: | N/A |
| DURATION: | 90 MINUTES |

# TestNG Testing Framework

## Objective

- TestNG Basic Annotations, Testng xml file, Prioritizing the tests using TestNG, Groups in Testng, Parameterising from TestNG xml file, DataProvider Annotation -Parameterizing Testcases, Listeners in TestNG framework, TestNG Assertions.

## Business needs

- TBD

## Working requirements

- Working environment: Intellij IDE.
- Delivery: Source code, deployment and testing, reviewing evident packaged in a compress archive.

## Product architecture

- N/A

## Technologies

The product implements one or more technology:

- Java basics
- TestNG

## Stored Data

- N/A

## Exercise 1:

Create sample to implement TestNG annotations as below:

- BeforeSuite
- BeforeTest
- BeforeClass
- BeforeMethod
- Test Case 1
- AfterMethod
- BeforeMethod
- Test Case 2
- AfterMethod
- AfterClass
- AfterTest
- AfterSuite

## Exercise 2:

Write a program called **CheckPassFail** which prints "PASS" if the int variable "mark" is more than or equal to 50; or prints "FAIL" otherwise.

Note: Please pass values to test methods as arguments by using parameter annotations through testng.xml file

## Exercise 3:

Here is the input json file that we need to parse:

```
[
	{
		color: "red",
		value: "#f00"
	},
	{
		color: "green",
		value: "#0f0"
	},
	{
		color: "blue",
		value: "#00f"
	},
	{
		color: "cyan",
```

```
		value: "#0ff"
	},
	{
		color: "magenta",
		value: "#f0f"
	},
	{
		color: "yellow",
		value: "#ff0"
	},
	{
		color: "black",
		value: "#000"
	}
]
```

Write a program using **@DataProvider** and trigger run by using **tesng.xml** to display all color and value to the screen.

## Exercise 4:

Write a **testing.xml** file running with group is “Smoke” and then Compile and run the below script. It will be as following:

```
public class TestNGGrouping {
	@Test(groups = { "Regression", "Smoke" })
	public void firstTest() {
		System.out.println("1st Test is Started.");
	}

	@Test(groups = { "Regression", "Smoke" })
	public void secondTest() {
		System.out.println("2nd Test is Started.");
	}

	@Test(groups = { "Regression" })
	public void thirdTest() {
		System.out.println("3rd Test is Started.");
```

```
	}

	@Test(groups = { "Medium" })
	public void fourthTest() {
		System.out.println("4th Test is Started.");
	}

	@Test(groups = { "Regression" })
	public void fifthTest() {
		System.out.println("5th Test is Started.");
	}

	@Test(groups = { "Medium" })
	public void sixthTest() {
		System.out.println("6th Test is Started.");
	}
}
```

**-- THE END --**