FREMBOOT

FemCode Africa is your No.1 Virtual Hub with the vision of educating and empowering all females across Africa with on demand tech skills for free or at very affordable prices without them having to leave the comfort of their homes.Femcode Africa is centered on equipping ladies with on demand tech skills for free or at very low cost.We at FemCode Africa believes that every female can acquire a digital skill if given the opportunity, and we are here to provide that opportunity.So we have different section in FemCode Africa and FemBoot is one of them.

**So what is FemBoot all about??**

FemBoot is a section of FemCode Africa that handles the coding bootcamp training.With online classes taught by professional instructors and one-on-one mentoring on different on demand tech skills, Fem Boot is every females gateway to a new career in just few months .All Trainings in Fem Boot are done for Free or at a very subsidized registration fee.FemBoot is made up of Fem-Web (FemCode Africa Web Development), Fem-Android (FemCode Africa Android Development) , also FemJavaScript (FemCode Africa pure JavaScript including ES6), Fem-Python (for Python for data science), Fem-Flutter (for flutter).FemBoot has experienced instructors that guides and mentors female student through the cause of their training.

SOFTWARE DEVELOPMEN PRINCIPLES

Ok**KISS: Keep It Simple, Stupid**

:grin:6:joy:3

[1:24](https://femcode-africa-hq.slack.com/archives/C019Z8M39TM/p1599481490101300)

that is what KISS means

Pinned by mercy Kelechi ∙ Saved

[1:25](https://femcode-africa-hq.slack.com/archives/C019Z8M39TM/p1599481527101800)

The KISS principle is descriptive to keep the code simple and clear, making it easy to understand.

Pinned by mercy Kelechi

[1:26](https://femcode-africa-hq.slack.com/archives/C019Z8M39TM/p1599481609102700)

we all know that our computers can only understand 0 and 1 — while programming languages are for humans to understand, try to keep coding simple and straightforward. Keep your methods small. Each method should never be more than 40-50 lines.

:100:2

Pinned by Hakima Magaji

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[**Shulammite John**](https://app.slack.com/team/U019SAGQG78)  [1:28 PM](https://femcode-africa-hq.slack.com/archives/C019Z8M39TM/p1599481703103000)

Each method should only solve one small problem, not many use cases. If you have a lot of conditions in the method, break these out into smaller methods. It will not only be easier to read and maintain, but it can help find bugs a lot faster

Pinned by Hakima Magaji

[1:30](https://femcode-africa-hq.slack.com/archives/C019Z8M39TM/p1599481856106800)

**Violations of KISS**  
  
Some times we hear people say on a Monday morning "are you sure I wrote this code myself, what the hell was I thinking when I was writing this codes"So to avoid this kind of Statements try not to violate the rule of kiss which is**Keep it simple stupid**:grin::grin::grin::grin:

Pinned by Hakima Magaji

[1:31](https://femcode-africa-hq.slack.com/archives/C019Z8M39TM/p1599481908107100)

To avoid violating the KISS principle, try to write simple code. Think of many solutions for your problem, then choose the best, simplest one and transform that into your code. Whenever you find lengthy code, divide that into multiple methods — right-click and refactor in the editor. Try to write small blocks of code that do a single task.

Pinned by Hakima Magaji

[1:32](https://femcode-africa-hq.slack.com/archives/C019Z8M39TM/p1599481954107900)

What is DRY**Don't Repeat Yourself**

Pinned by Hakima Magaji

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DRY stand for "Don't Repeat Yourself," a basic principle of software development aimed at reducing repetition of information. The DRY principle is stated as, "Every piece of knowledge or logic must have a single, unambiguous representation within a system

Pinned by Hakima Magaji

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**Violations of DRY**  
  
"We enjoy typing" (or, "Wasting everyone's time."): "We enjoy typing," means writing the same code or logic again and again. It will be difficult to manage the code and if the logic changes, then we have to make changes in all the places where we have written the code, thereby wasting everyone's time.

Pinned by Hakima Magaji

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**How to Achieve DRY**  
To avoid violating the DRY principle, divide your system into pieces. Divide your code and logic into smaller reusable units and use that code by calling it where you want. Don't write lengthy methods, but divide logic and try to use the existing piece in your method.

Pinned by Hakima Magaji

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**DRY Benefits**  
  
Less code is good: It saves time and effort, is easy to maintain, and also reduces the chances of bugs.One good example of the DRY principle is the helper class in enterprise libraries, in which every piece of code is unique in the libraries and helper classes.

Pinned by Hakima Magaji

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**Summary**  
  
While writing any code or module, keep software design principles in mind and use them wisely, make them your habit so you don't need to keep remembering every time. It will save development time and make your software module robust, which could be easy to maintain and extend.

Youtube Videos

<https://youtu.be/i-QyW8D3ei0>

**CODE COMMENTING**  
  
This is another section of the software development principles we have to look at

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So here is a video that explains it too

Pinned by Hafsat Alhassan

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[https://youtu.be/HzWf-EeE3uI](https://slack-redir.net/link?url=https%3A%2F%2Fyoutu.be%2FHzWf-EeE3uI)

[**FemCode Africa**](https://app.slack.com/team/U019J9YPM1D)**:woman:**  [2:27 PM](https://femcode-africa-hq.slack.com/archives/C019Z8M39TM/p1599658078030300)

ok when we learnt about SDLC we mentioned about Testing. today we are going to handle it as a full topicwe will be covering:

1. what it is

2. Types of testing   
3. Testing Automation Tools  
4. QA practices  
5. Test Cases (Building and Validation)what is **Software Testing.It** is a method to check whether the actual software product matches expected requirements and to ensure that software product is Defect free.It involves execution of software/system components using manual or automated tools to evaluate one or more properties of interest.We test our software to identify errors, gaps or missing requirements in contrast to actual requirements.

Pinned by Mariam

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Types of Software Testing  
Testing is classified into three categories.

* Functional Testing
* Non-Functional Testing or Performance Testing
* Maintenance (Regression and Maintenance)

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read them up individually

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so there are different types of testing tools

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so many of them

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1. LambdaTest
2. TestComplete
3. QMetry Automation Studio
4. TestProject
5. Katalon Studio
6. Testsigma
7. Qualibrate
8. Worksoft
9. ZeuZ Test Automation Framework
10. CrossBrowserTesting
11. 21 – Connecting Testing And Production Autonomously
12. Testimony
13. Selenium
14. Subject7
15. Appium
16. Micro Focus UFT
17. Test Studio
18. Ranorex
19. IBM Rational Functional Tester

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here is 19 types of Testing Automation Tools we have or can use while testing our software

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so to get to know them better you can look them up and know how each one works

<https://youtu.be/cl6pNHGHQEQ>

<https://youtu.be/goaZTAzsLMk>

[**Shulammite John**](https://app.slack.com/team/U019SAGQG78)  [8:52 PM](https://femcode-africa-hq.slack.com/archives/C019Z8M39TM/p1599940326076700)

Now here is my own definition

:writing_hand:4

Pinned by Mariam

[8:52](https://femcode-africa-hq.slack.com/archives/C019Z8M39TM/p1599940377077100)

Quality is extremely hard to define, and it is simply stated: "**Fit for use or purpose.**" It is all about meeting the needs and expectations of customers with respect to functionality, design, reliability, durability, & price of the product.

:white_check_mark:4:heavy_check_mark:1

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A has to do with will I say ConfidenceWhy do I say so??

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This is my reason

Pinned by Mariam

[9:00](https://femcode-africa-hq.slack.com/archives/C019Z8M39TM/p1599940849090800)

Assurance is nothing but a positive declaration on a product or service, which gives confidence. It is certainty of a product or a service, which it will work well. It provides a guarantee that the product will work without any problems as per the expectations or requirements.

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So when you build a product or software, or website or app or math tablePeople want to be assured that it will serve and certify their need and wants

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For example, if you build an e-commerce website that their customers will make payment on it

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They want to be sure that people will not steal their money

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Or if you build an app the want to be sure that it will sever that purpose which the downloaded it for

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That is why I used the word CONFIDENCE

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at 1st

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With what I have explained so far

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And what we have learnt about Software testingI need 10 definition of what QA in software Testing is

[**Shulammite John**](https://app.slack.com/team/U019SAGQG78)  [9:19 PM](https://femcode-africa-hq.slack.com/archives/C019Z8M39TM/p1599941944130700)

Ok all your definitions are very nice

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I am not giving any other definition because I love what I am seeing

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But I will list points

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Reliable  
Compatible  
Well written  
Clean  
Not complex  
Durable  
PRICE

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So let's have this points at heart

:writing_hand:4

[9:22](https://femcode-africa-hq.slack.com/archives/C019Z8M39TM/p1599942130134600)

Now what are the best practice of QA???

PNG 1

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So before a product get to the users the QA must have passed this stages

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QA2.PNG

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Look at this too

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So this is all you need to know about QA basically

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So if you want to go deep you can now google each of them and learn what the do and how it works

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So Test Case if the last one

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What is Test Case

[9:30](https://femcode-africa-hq.slack.com/archives/C019Z8M39TM/p1599942600141400)

In software Testing???

[**Shulammite John**](https://app.slack.com/team/U019SAGQG78)  [9:37 PM](https://femcode-africa-hq.slack.com/archives/C019Z8M39TM/p1599943041152900)

In a very simple languageTest case is like a guide that make us not write out of line codes

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For example you were ask you to calculate 1 + 1If you are using a test case it help you make sure that the only code you write is a code that make some one calculate 1 + 1 (edited)

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If you try to write code that calculates 1 + 1 \* 4 it will throw an error for you

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So we can say that test case is an already written codes that makes you be in line with the goal of the project

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So you will not leave what the ask you to do and add other features that are not necessarily

:heavy_check_mark:7

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Its just like a guide

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[**Karimot Isiaka**](https://app.slack.com/team/U01ABTKQK5X)  [9:41 PM](https://femcode-africa-hq.slack.com/archives/C019Z8M39TM/p1599943278160800)

Every big company that produces software uses Test case

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I know of Microsoft

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The don't joke with test case

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[**Isaiah Edith**](https://app.slack.com/team/U01AQ0L0ENL)**:house_with_garden:**  [9:42 PM](https://femcode-africa-hq.slack.com/archives/C019Z8M39TM/p1599943326162900)

okay ma'am

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So if your applying to work with Microsoft or you're their fan you will have to learn how to use test case (edited)

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Its simple and nice, it makes you focus on the main aim of the project (edited)

[9:43](https://femcode-africa-hq.slack.com/archives/C019Z8M39TM/p1599943418165300)

So if you want to know more

[9:43](https://femcode-africa-hq.slack.com/archives/C019Z8M39TM/p1599943431165900)

You can google it out and know how it works

GIT

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[**Emmanuel David**](https://app.slack.com/team/U01AFQ02EDU)  [8:31 PM](https://femcode-africa-hq.slack.com/archives/C019Z8M39TM/p1600111879018300)

**What is Git:**  
Git is a version Control System that helps you track progresses in your project and allow developers to wok together on a project.  
It offers both distributed version control and source code management (SCM) functionality of Git. It also facilitates collaboration features such as bug tracking, feature requests, task management for every project.

:writing_hand:5

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Essential components of the GitHub are:

* Repositories
* Branches
* Commits
* Pull Requests
* Git (the version control tool GitHub is built on)

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**Git Repository** is just a file location where you are storing all the files related to your project.  
Let’s say if you are developing an application, whatever you are coding, all the different service modules for your application will be dumped in your **Git repository**once you *commit* & *push*.When you are working with Git, you have two repositories - **Local** & **Remote**.

* **Local repository**: It is just a file location residing in your system. When you***git commit***your code, a version/snapshot is created in your local repo.
* **Remote repository**: A remote repository generally lies somewhere outside your system, on a remote machine. This is very important when you are working with multiple people. This is the place where everyone will be sharing their code.

You can add files in your remote repo by ***git push*** from your local repository.

:writing_hand:5

**Branches** in **Git** are nothing but pointers to a specific commit. **Git** generally prefers to keep its **branches** as lightweight as possible.  
There are basically two types of **branches** viz. ***local branches*** and ***remote tracking branches***.  
A local **branch** is just another path of your working tree. On the other hand, remote tracking **branches** have special purposes. Some of them are:

* They link your work from the local repository to the work on central repository.
* They automatically detect which remote **branches** to get changes from, when you use **git pull**.

**Git Commit:**

* Commit set a message about the changes you were done. The commit also saves a revision of the code and you can revert the code to any version anytime in one click.

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* Git commit takes a snapshot of the existing code base at a particular time, so as to help you come back to the code regardless of any change you make afterwords

**Pull request:**  
A pull request is a way to submit a contribution to a software project using a version control system such as Git. Developers use pull requests to propose changes to a codebase. Using a pull request, a developer can show everyone who is working on a project what changes they think are necessary.

**GitHub in Git:**  
GitHub can be separated as the Git and the Hub. GitHub service includes access controls as well as collaboration features like task management, repository hosting, and team management.  
The key benefits of GitHub are as follows:

* It is easy to contribute to open source projects via GitHub.
* It helps to create an excellent document.
* You can attract the recruiter by showing off your work. If you have a profile on GitHub, you will have a higher chance of being recruited.
* It allows your work to get out there in front of the public.
* You can track changes in your code across versions.

GitHub is a place where programmers and designers work together. They collaborate, contribute, and fix bugs together. It hosts plenty of open source projects and codes of various programming languages.

:white_check_mark:3:writing_hand:5

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**Practical Classes on Git and GitHub :**  
For us to initialise git into our System we need to download it and Create an account with git

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**Please Download Git to your Windows Os if you haven't**.

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Now having git in your System, you need to Configure git with your email address and username

git config --global user.name "Kura Davis"  
 git config --global user.email "Kura@gmail.com"

Now with this email address git can be able to track changes made from you project and connect it to **GitHub**

:heavy_check_mark:1

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Ok this being more of practical and less of remote I have prepared some set of videos that will aid you in making your first newbie steps in git and GitHub, please note we are Still in our classes, you have ten mins to review it and git back with your questions

3 files

**[Git & GitHub Tutorial for Beginners - 1 - Why Use Git\_ ( 720 X 1280 ).mp4](https://files.slack.com/files-pri/T01ABLTTPQR-F01ADJN2DGX/download/git___github_tutorial_for_beginners_-_1_-_why_use_git____720_x_1280__.mp4" \t "https://files.slack.com/files-pri/T01ABLTTPQR-F01ADJN2DGX/download/git___github_tutorial_for_beginners_-_1_-_why_use_git____720_x_1280__.mp4)**

[9 MB MPEG 4 Video](https://files.slack.com/files-pri/T01ABLTTPQR-F01ADJN2DGX/download/git___github_tutorial_for_beginners_-_1_-_why_use_git____720_x_1280__.mp4" \t "https://files.slack.com/files-pri/T01ABLTTPQR-F01ADJN2DGX/download/git___github_tutorial_for_beginners_-_1_-_why_use_git____720_x_1280__.mp4)

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Check sack for videos saved

[**Emmanuel David**](https://app.slack.com/team/U01AFQ02EDU)  [9:43 PM](https://femcode-africa-hq.slack.com/archives/C019Z8M39TM/p1600461823027200)

This below are the basic command of GitHub and their usages

1. **Git config**

       Usage: git config –global user.name “[name]”  
       Usage: git config –global user.email “[email address]”  
      This command sets the author name and email address respectively  
       to be used with your commits.**2.  Git init**  
     Usage: git init [repository name]  
     This command is used to start a new repository/register a new project to GIT.**3.  Git clone**  
    Usage: git clone [url]  
    This command is used to obtain a repository from an existing URL.

**.  Git add**  
     Usage: git add [file]  
     This command adds a file to the staging area.  
     Usage: git add \*  
     This command adds one or more to the staging area.**5.  Git reset**  
     Usage: git reset [file]  
     This command unstages the file, but it preserves the file contents.**6.  Git status**  
     Usage: git status  
     This command lists all the files that have to be committed.**7.  Git rm**  
     Usage: git rm [file]  
     This command deletes the file from your working directory and stages the deletion.

:writing_hand:2

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[**Susan**](https://app.slack.com/team/U019SMJNZPG)  [9:58 PM](https://femcode-africa-hq.slack.com/archives/C019Z8M39TM/p1600462712039200)

Please [@Emmanuel David](https://femcode-africa-hq.slack.com/team/U01AFQ02EDU)  am trying to open the atom setup in windows but they are saying application has generated an exception that could not be handled, how do I go about this

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**8. Git log**  
    Usage: git log  
    This command is used to list the version history for the current branch.**9.  Git branch**  
     Usage: git branch  
    This command lists all the local branches in the current repositor

**Git branch**  
Usage: git branch  
This command lists all the local branches in the current repository.**Git checkout**  
Usage: git checkout [branch name]  
This command is used to switch from one branch to another.**Git merge**  
Usage: git merge [branch name]  
This command merges the specified branch’s history into the current branch.**Git remote**  
Usage: git remote add [variable name] [Remote Server Link]  
This command is used to connect your local repository to the remote server.**Git push**  
Usage: git push [variable name] master  
This command sends the committed changes of master branch to your remote repository.

:writing_hand:1

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[**Emmanuel David**](https://app.slack.com/team/U01AFQ02EDU)  [10:31 PM](https://femcode-africa-hq.slack.com/archives/C019Z8M39TM/p1600464695053000)

IF YOU WATCHED THE VIDEOS THIS CONCEPT WONT BE A NEW ONE TO YOU AND YOU WOULD BE ABLE TO UNDERSTAND THE USE AND IMPORTANT OF GIT AND HOW TO APPLY IT TO GIT HUB, GIT AND GIT HUB IS ALSO A BIT COMPLECTED ,IT NEEDS PATRICE TO GET FAMILIAR WITH.  
ALWAYS GETTING FAMILIAR WITH IT BECAUSE THEN AND ONLY THEN WOULD YOU BE ABLE TO COLLABORATE WITH OTHER PROGRAMMERS ACROSS THE WORLD AND WORK REMOTELY  
**thanks and have an amazing weekend**