**Tool for the course**

* ***PC***

You are required to have a Desktop Computer but more preferably a Private Computer. The minimum requirement (for an efficient and effective study) is a 4GB RAM, 256GB SSD or a HDD, 2.0GHz Processor Speed. You are also advised to have a minimum of 2hrs battery life.

* ***Chat via Slack***

Have you worked with Slack? Here you can learn more about [Slack](https://thenextweb.com/insider/2015/08/11/the-ultimate-guide-to-doing-anything-in-slack/)? You can join join [Jelurida Africa Slack](jeluridaafrica.slack.com) or [Jelurida Slack Channel](ardornxt.slack.com).

* ***GitHub/Bitbucket***

**Ardor Repositories**

The Ardor Blockchain is a public blockchain project and the major code repository is on Bitbucket. You can download it through the [link.](https://bitbucket.org/Jelurida/ardor/src/master/) The GitHub repository can also be found at this [link](https://github.com/nxt-ext/ardor). You can get a GitHub Account by clicking [here](https://github.com/).

It is very easy to contribute codes and principles to the repository in order to further develop the project.

* ***IntelliJ IDE***

IntelliJ is an Integrated Development Environment, IDE, which is managed by [JetBrains](https://www.jetbrains.com/idea/download/index.html#section=mac). You can download the Ultimate version (which you have to subscribe) or you can download the Community version (which is free).

This is a great choice for developing on Ardor since the Ardor Application was developed to be IntelliJ friendly. You can download other simple code editors like Sublime Text, Visual Studio Code or Atom. But for this course, we are strongly encouraged to make use of IntelliJ.

IntelliJ has some efficient tools which makes lightweight contract development and deployment easy. It has a terminal for running your node manually.

* ***Oracle JDK***

Oracle is an IT giant in Software and hardware developments. Oracle has been developing the Java Development Kid, JDK, for Java developers. Ardor was implemented in Java and so it is necessary to install a JDK in order to run Ardor node.

The two suitable JDK for Ardor is JDK-8 or JDK-11 but it is more suitable to run JDK-11. You can download your JDK [here](https://www.oracle.com/technetwork/java/javase/downloads/index.html).

* ***Oracle VM Virtual Box (Optional)***

A VirtualBox is a general-purpose full virtualizer. It allows us to create a virtual desktop environment on existing hardware which enables us to run the same software on different Operating Systems.

The Operating System (Windows, Mac, Ubuntu etc.) and tools which are recommended for this course might be different and they are also under active construction. In order to simplify things and reduce errors we advise you to use a Windows PC or install a VirtualBox running Windows-10 on your PC.

You can download Windows-10, 64Bits [here](https://www.microsoft.com/en-us/software-download/windows10ISO).

You can download VM for your PC [here](https://www.virtualbox.org/wiki/Downloads).

You can learn how to install VM [here](https://askubuntu.com/questions/142549/how-to-install-ubuntu-on-virtualbox).