***What is Gradle?***

*Gradle is a build automation tool often used for JVM languages such as Java, Groovy or Scala. Gradle can be configured to run Tasks which do things like compile jars, run tests, create documentation and much more.*

***The Core of Gradle: Projects and Tasks***

*The build.gradle file has a one to one relationship with something called the project object: It’s an object representing information about our project. Each project is made up of a collection of Tasks: these are atomic units of work that represent the things that need to be done to build our project.*

*Gradle has a number of default Tasks on the project object model — we can have a look at these by running the task:*

*> gradle tasks*

*We can modify the project object model via the build.gradle script — Gradle is code as configuration.*

***The Build Lifecycle –***

*Gradle vs. Maven –*

*Performance: Speed and Efficiency*

*Both Gradle and Maven support parallel execution of multi-module builds. Gradle, however, stands out for its use of incremental builds. It achieves this by checking the status of tasks and skipping any that aren’t updated, resulting in shorter build times.*