Java is the most commonly used language in Android development. We will develop our App under Java using the Android Software Development Kit. There are several advantages for using Java instead of other languages like C. First of all, Java is an object oriented programming language. We can break up a big project into small objects and solve the small problems first before putting them up together. In addition, Java is a rather secure language compared with C and C++, it generates exceptions such as null pointer and index out of bounds exceptions to prevent illegal access to memory. In mobile app development, security is an important issue and thus Java is the ideal choice. Also, Java’s API provides an easy implementation of concurrency. In our WebApp project multiple users will use the app at the same time and may access the same region concurrently and using Java we can manage concurrency efficiently.

Java virtual machine is not supported by the Android system and Java byte code is not executed. Instead, the .class files are compiled to Dalvik executables are run on Dalvik. Dalvik is a VM that uses less space and the interpretation of Java is quite efficient.