

Software testing is an essential part of the software development life cycle. Before there was extremely rapid progress in development methodologies and tools, it was harder to fulfil requirements relating to validation and verification. One of the most applied approaches is the automation of the testing processes. There is a plethora of technologies for automated software testing, such as Tosca, Selenium or the Robot Framework. Unfortunately, in practice is very common that testing is not taken as seriously as the development phase. As a result of this lack of consideration, it often transpires that the execution of tasks related to software testing is conducted by employees who may not be appropriately qualified; therefore, they can find the configuration and utilisation of these tools to be difficult. This thesis aims to design, implement, and test the application, which will provide the tester with an easy to use environment for the configuration and execution of automated tests implemented in the Robot Framework. The objective of this thesis is to provide an environment that will prevent the formation of defects caused as a result of human error.