

## ***Abstract***

Nowadays Object Oriented Programming widely used for application developments. The Design and Implementation stage of an application do not ensure that application to be free from errors, so Object oriented Application needs to be tested. One of the important stage in Testing is generating the test cases.

The generation of test case for testing can be done in various ways, one of the way is to use UML Model. UML Model diagram besides used for correcting the design can also be used to generate series of test cases, so the test cases can be generated on Design Stage. There are 8 UML Model that can be used to generate test case.

Sequence diagram is a diagram that describe the System's behavior interaction that can be used to generate test cases. By generating the test case using Sequence diagram, then the test case can be generated on the Design Stage and can be used right after the Code Stage is finished. Therefore in this Final Project, there will be series of test case that generated using a tool that can generate it from sequence diagram. Test case that have been generated by the tool then will be used to test the application using Automatic testing with Selenium WebDriver.

**Keywords:** *software testing, test case, sequence diagram, use case diagram*