Middle East Technical University
Computer Engineering Department

CENG 492

Test Specifications Report

ComFuture

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1. INTRODUCTION
Tests are one of the main requirements in the current phase of our project. Since we have developed the first releases of PIC and PC (JAVA) side of our libraries, now we need to make tests to maintain the stability of our implementations.

1.1 Goals and Objectives
Our main objective is to maintain the functional testing of our implementations to see if they are doing what they are supposed to do. After that we will try to figure out how to improve our existing implementations and our designs.

1.2 Document Scope
This document contains the method of the testing process and a schedule for the planned tests.

1.3. Testing Plan Scope
The following tests will be performed:
- Functional Testing for the PIC Library.
- Functional Testing for the PC (JAVA) Library.
- Performance Testing of the PIC Library.
- Performance Testing of the PC (JAVA) Library.

1.4. Constraints for Testing
Since there is a time limitation for the testing and much to be developed the tests will be performed by two group members working at the same time. So each problem will be documented correctly.

2. TESTING STRATEGY AND PROCEDURES
The procedures that are going to be followed during the testing are explained below.

2.1 Testing Procedure
We will test each functionality of the libraries one by one and make the documentation for them. To make the testing properly we will write little applications that use the libraries in the correct way and also in incorrect way. So we can point out the weaknesses of our implementations.

The performance tests will be done in a similar way. Some little applications will be developed to simulate a heavy usage of each functionality of both libraries. With this approach we will find out the most resource consuming functionalities and we will improve our designs to overcome possible performance problems.
2.2 Test Items

- Connection
- Disconnection
- Authorization
- Setting Pins
- Clearing Pins
- Reading Pins
- Notifications

3. TEST SCHEDULE

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