

## LIST OF FIGURES

Figure 2. 1 WiFi Illustration .....	5
Figure 2. 2 NFC Tag Working Principle .....	7
Figure 2. 3 NFC Architecture Illustration.....	9
Figure 2. 4 Android Illustration .....	10
Figure 2. 5 Captive Portal Illustration .....	11
Figure 3. 1 System Design.....	12
Figure 3. 2 Block Diagram System.....	12
Figure 3. 3 NFC Tag Reader Application Flowchart.....	16
Figure 3. 4 System Diagram Flowchart .....	17
Figure 3. 5 Application Flowchart.....	18
Figure 3. 6 Optimal Distance and Average Time Taken Testing Experiment. ....	21
Figure 4. 1 Time Taken 1.....	21
Figure 4. 2 Time Taken 2.....	22
Figure 4. 3 Time Taken 3.....	22
Figure 4. 4 Time Taken 4.....	22
Figure 4. 5 Time Taken 5.....	23
Figure 4. 6 Time Taken 6.....	23
Figure 4. 7 Time Taken 7.....	23
Figure 4. 8 Time Taken 8.....	24
Figure 4. 9 Time Taken 9.....	24
Figure 4. 10 Time Taken 10.....	24
Figure 4. 11 Average Time Taken .....	25
Figure 4. 12 Throughput testing using wireshark .....	27
Figure 4. 13 Throughput Test Results with Wireshark.....	27
Figure 4. 14 Delay Testing with Wireshark.....	28
Figure 4. 15 Result of Package Loss Test .....	28