

LIST OF FIGURES

Figure II. 1 Waterfall Method	14
Figure II. 2 Rapid Application Development	16
Figure III. 1 Systematic Design	22
Figure IV. 1 Existing Asset Maintenance Business Process	34
Figure IV. 2 Class Diagram	45
Figure IV. 3 Use case diagram for Vice Dean 2	46
Figure IV. 4 Use Case for Head of Finance and Human Resources	48
Figure IV. 5 Use Case Diagram for Staff of Finance and Human Resources	51
Figure IV. 6 Activity diagram Login for All Users	54
Figure IV. 7 Activity Diagram on View Dashboard for All Users	55
Figure IV. 8 Activity Diagram on View Asset Categories for Head and Staff Finance and Human Resources	56
Figure IV. 9 Activity Diagram on Add Asset Categories for Head and Staff Finance and Human Resources	57
Figure IV. 10 Activity Diagram on Edit Asset Categories for Head and Staff Finance and Human Resources	58
Figure IV. 11 Activity Diagram on Delete Asset Categories for Head and Staff Finance and Human Resources	59
Figure IV. 12 Activity Diagram on Search Asset Categories for Head and Staff Finance and Human Resources	61
Figure IV. 13 Activity Diagram on View Asset subcategories for Head and Staff Finance and Human Resources	62
Figure IV. 14 Activity Diagram on Add Asset subcategories for Head and Staff Finance and Human Resources	63
Figure IV. 15 Activity Diagram on Edit Asset subcategories for Head and Staff Finance and Human Resources	65
Figure IV. 16 Activity Diagram on Delete Asset subcategories for Head and Staff Finance and Human Resources	66
Figure IV. 17 Activity Diagram on Search Asset subcategories for Head and Staff Finance and Human Resources	67

Figure IV. 18 Activity Diagram on View Buildings for Head and Staff Finance and Human Resources.....	69
Figure IV. 19 Activity Diagram on Add Buildings for Head and Staff Finance and Human Resources.....	70
Figure IV. 20 Activity Diagram on Edit Buildings for Head and Staff Finance and Human Resources.....	71
Figure IV. 21 Activity Diagram on Delete Buildings for Head and Staff Finance and Human Resources.....	72
Figure IV. 22 Activity Diagram on Search Buildings for Head and Staff Finance and Human Resources.....	73
Figure IV. 23 Activity Diagram on View Floors for Head and Staff Finance and Human Resources.....	74
Figure IV. 24 Activity Diagram on Add Floors for Head and Staff Finance and Human Resources.....	75
Figure IV. 25 Activity Diagram on Edit Floors for Head and Staff Finance and Human Resources.....	76
Figure IV. 26 Activity Diagram on Delete Floors for Head and Staff Finance and Human Resources.....	77
Figure IV. 27 Activity Diagram on Search Floors for Head and Staff Finance and Human Resources.....	78
Figure IV. 28 Activity Diagram on View Rooms for Head and Staff Finance and Human Resources.....	79
Figure IV. 29 Activity Diagram on Add Rooms for Head and Staff Finance and Human Resources.....	80
Figure IV. 30 Activity Diagram on Edit Rooms for Head and Staff Finance and Human Resources.....	81
Figure IV. 31 Activity Diagram on Delete Rooms for Head and Staff Finance and Human Resources.....	82
Figure IV. 32 Activity Diagram on Delete Rooms for Head and Staff Finance and Human Resources.....	83
Figure IV. 33 Activity Diagram on View Asset for Head and Staff Finance and Human Resources.....	84

Figure IV. 34 Activity Diagram on Add Asset for Head and Staff Finance and Human Resources.....	85
Figure IV. 35 Activity Diagram on Edit Asset for Head and Staff Finance and Human Resources.....	86
Figure IV. 36 Activity Diagram on Delete Asset for Head and Staff Finance and Human Resources.....	87
Figure IV. 37 Activity Diagram on Search Asset for Head and Staff Finance and Human Resources.....	88
Figure IV. 38 Activity Diagram on View Vendor for Head and Staff Finance and Human Resources.....	89
Figure IV. 39 Activity Diagram on Add Vendor for Head and Staff Finance and Human Resources.....	90
Figure IV. 40 Activity Diagram on Edit Vendor for Head and Staff Finance and Human Resources.....	91
Figure IV. 41 Activity Diagram on Delete Vendor for Head and Staff Finance and Human Resources.....	92
Figure IV. 42 Activity Diagram on Search Vendor for Head and Staff Finance and Human Resources.....	93
Figure IV. 43 Activity Diagram on View Maintenance for Head and Staff Finance and Human Resources.....	94
Figure IV. 44 Activity Diagram on Add Maintenance for Staff Finance and Human Resources	95
Figure IV. 45 Activity Diagram on Edit Maintenance for Staff Finance and Human Resources	96
Figure IV. 46 Activity Diagram on Delete Maintenance for Staff Finance and Human Resources.....	97
Figure IV. 47 Activity Diagram on Search Maintenance for Head and Staff Finance and Human Resources	98
Figure IV. 48 Activity Diagram on Search Maintenance for Head Finance and Human Resources.....	99
Figure IV. 49 Activity Diagram on View Proposal Maintenance for Vice Dean 2, Head and staff Finance and Human Resources.....	100

Figure IV. 50 Activity Diagram on Add Proposal Maintenance for Staff Finance and Human Resources.....	101
Figure IV. 51 Activity Diagram on Add Proposal Maintenance for Staff Finance and Human Resources.....	102
Figure IV. 52 Activity Diagram on Delete Proposal Maintenance for Staff Finance and Human Resources.....	103
Figure IV. 53 Activity Diagram on Search Proposal Maintenance for Vice Dean 2, Head and Staff Finance and Human Resources	104
Figure IV. 54 Activity Diagram on Accept Proposal Maintenance for Head of Finance and Human Resources	105
Figure IV. 55 Activity Diagram on Validate Proposal Maintenance for Vice Dean 2.....	106
Figure IV. 56 Activity Diagram on View Report Maintenance for Vice Dean 2, Head and Staff of Finance and Human Resources.....	107
Figure IV. 57 Activity Diagram on Add Report Maintenance for Staff of Finance and Human Resources.....	108
Figure IV. 58 Activity Diagram on Edit Report Maintenance for Staff of Finance and Human Resources.....	109
Figure IV. 59 Activity Diagram on Delete Report Maintenance for Staff of Finance and Human Resources	110
Figure IV. 60 Activity Diagram on Search Report Maintenance for Vice Dean 2, Head and Staff of Finance and Human Resources.....	111
Figure IV. 61 Activity Diagram on Accept Report Maintenance for Head of Finance and Human Resources	112
Figure IV. 62 Activity Diagram on View User for Head of Finance and Human Resources	113
Figure IV. 63 Activity Diagram on Add User for Head of Finance and Human Resources	114
Figure IV. 64 Activity Diagram on Edit User for Head of Finance and Human Resources	115
Figure IV. 65 Activity Diagram on Delete User for Head of Finance and Human Resources	116

Figure IV. 66 Activity Diagram on Search User for Head of Finance and Human Resources	117
Figure IV. 67 Activity Diagram on Logout for Vice Dean 2, Head and Staff of Finance and Human Resources	118
Figure IV. 68 Sequence Diagram on Login for Vice Dean 2, Head and Staff of Finance and Human Resources	119
Figure IV. 69 Sequence Diagram on Dashboard for Vice Dean 2, Head and Staff of Finance and Human Resources.....	120
Figure IV. 70 Sequence Diagram on Asset categories for Head of Finance and Human Resources.....	121
Figure IV. 71 Sequence Diagram on Asset categories for Staff of Finance and Human Resources.....	122
Figure IV. 72 Sequence Diagram on Asset categories for Head of Finance and Human Resources.....	124
Figure IV. 73 Sequence Diagram on Asset categories for Staff of Finance and Human Resources.....	125
Figure IV. 74 Sequence Diagram on Buildings for Head of Finance and Human Resources	127
Figure IV. 75 Sequence Diagram on Buildings for Staff of Finance and Human Resources	129
Figure IV. 76 Sequence Diagram on Buildings for Head of Finance and Human Resources	131
Figure IV. 77 Sequence Diagram on Floors for Staff of Finance and Human Resources	133
Figure IV. 78 Sequence Diagram on Rooms for Head of Finance and Human Resources	135
Figure IV. 79 Sequence Diagram on Rooms for Staff of Finance and Human Resources	137
Figure IV. 80 Sequence Diagram on Asset for Staff of Finance and Human Resources	139
Figure IV. 81 Sequence Diagram on Asset for Staff of Finance and Human Resources	140

Figure IV. 82 Sequence Diagram on Vendor for Head of Finance and Human Resources	141
Figure IV. 83 Sequence Diagram on Vendor for Staff of Finance and Human Resources	142
Figure IV. 84 Sequence Diagram on Maintenance for Head of Finance and Human Resources	144
Figure IV. 85 Sequence Diagram on Maintenance for Staff of Finance and Human Resources	145
Figure IV. 86 Sequence Diagram on Proposal Maintenance for Head of Finance and Human Resources.....	146
Figure IV. 87 Sequence Diagram on Proposal Maintenance for Staff of Finance and Human Resources.....	147
Figure IV. 88 Sequence Diagram on Proposal Maintenance for Vice Dean 2 .	148
Figure IV. 89 Sequence Diagram on Report Maintenance for Head of Finance and Human Resources.....	149
Figure IV. 90 Sequence Diagram on Report Maintenance for Staff of Finance and Human Resources.....	150
Figure IV. 91 Sequence Diagram on Report Maintenance for Vice Dean 2	151
Figure IV. 92 Sequence Diagram on Users for Head of Finance and Human Resources	152
Figure IV. 93 Sequence Diagram on Logout for Vice Dean 2, Head and Staff of Finance and Human Resources	153
Figure IV. 94 Mock up Login Page.....	154
Figure IV. 95 Mock up Dashboard Page for Head and Staff Finance and Human Resources	155
Figure IV. 96 Mock up Dashboard Page for Vice Dean 2.....	156
Figure IV. 97 Mock up asset categories page for Head and Staff Finance and Human Resources.....	157
Figure IV. 98 Mock up asset subcategories page for Head and Staff Finance and Human Resources.....	158
Figure IV. 99 Mock up buildings page for Head and Staff Finance and Human	159

Figure IV. 100 Mock up Floor page for Head and Staff Finance and Human Resources	160
Figure IV. 101 Mock up room page for Head and Staff Finance and Human Resources	161
Figure IV. 102 Mock up Asset page for Head and Staff Finance and Human Resources	162
Figure IV. 103 Mock up Vendor page for Head and Staff Finance and Human Resources	163
Figure IV. 104 Mock up Maintenance page for Head and Staff Finance and Human Resources.....	164
Figure IV. 105 Mock up Proposal Maintenance page for Vice Dean 2, Head and Staff Finance and Human Resources	165
Figure IV. 106 Mock up Report Maintenance page for Vice Dean 2, Head and Staff Finance and Human Resources	166
Figure IV. 107 Mock up User page for Head Finance and Human Resources	167
Figure IV. 108 Result sprint 1	175
Figure IV. 109 Result Sprint 1.....	176
Figure IV. 110 Result Sprint 2.....	177
Figure IV. 111 Result Sprint 2.....	177
Figure IV. 112 Result sprint 2	178
Figure IV. 113 Result Sprint 3.....	178
Figure IV. 114 Result Sprint 3.....	179
Figure V. 1 Existing Asset Maintenance Business Process	198
Figure V. 2 Proposed Asset Maintenance Business Process.....	200
Figure V. 3 Gantt Chart	211