

## LIST OF FIGURES

Figure I. 1 Diagram of the number of E-Commerce businesses in Indonesia .....	2
Figure I. 2 Diagram of how customers buy fishery products.....	3
Figure II. 1 Agile lifecycle (Salza et al., 2019).....	12
Figure II. 2 Stages in extreme programming .....	13
Figure II. 4 MVC model .....	17
Figure II. 5 Black-box testing (Syauqi, 2018).....	20
Figure II. 6 JMeter workflow .....	21
Figure II. 7 ISO/IEC 25010.....	22
Figure III. 1 Conceptual model .....	25
Figure III. 2 Systematic research .....	28
Figure IV. 1 Diagram of survey results by age range .....	32
Figure IV. 2 Survey result based on e-marketplace approval for fisheries .....	33
Figure IV. 3 Business process existing MSMEs.....	35
Figure IV. 4 Business process existing fish farmer.....	35
Figure IV. 5 Proposal business process .....	38
Figure IV. 6 Business model canvas .....	39
Figure IV. 7 Use case diagram.....	49
Figure IV. 8 Login activity diagram .....	73
Figure IV. 9 Registration activity diagram .....	74
Figure IV. 10 View profile activity diagram.....	75
Figure IV. 11 Update profile activity diagram.....	76
Figure IV. 12 View product details activity diagram.....	77
Figure IV. 13 Product search activity diagram .....	78
Figure IV. 14 Give a product review activity diagram .....	79
Figure IV. 15 View cart activity diagram .....	80
Figure IV. 16 Add cart activity diagram .....	80
Figure IV. 17 Delete cart activity diagram.....	81
Figure IV. 18 Place an order activity diagram .....	82
Figure IV. 19 View transactions activity diagram .....	83
Figure IV. 20 Tracking order activity diagram .....	83
Figure IV. 21 View favorite products activity diagram .....	84

Figure IV. 22 Add favorite product activity diagram .....	85
Figure IV. 23 Delete favorite product activity diagram.....	85
Figure IV. 24 Create store activity diagram.....	86
Figure IV. 25 Login activity diagram .....	87
Figure IV. 26 View profile activity diagram.....	88
Figure IV. 27 Update profile activity diagram.....	88
Figure IV. 28 View store activity diagram .....	89
Figure IV. 29 Update store activity diagram.....	90
Figure IV. 30 View products activity diagram .....	91
Figure IV. 31 Add product activity diagram.....	91
Figure IV. 32 Update product activity diagram .....	92
Figure IV. 33 Delete product activity diagram .....	93
Figure IV. 34 Product search activity diagram .....	93
Figure IV. 35 View cart activity diagram .....	94
Figure IV. 36 Add cart activity diagram .....	95
Figure IV. 37 Delete cart activity diagram.....	96
Figure IV. 38 Place an order activity diagram .....	97
Figure IV. 39 View transactions activity diagram .....	98
Figure IV. 40 Tracking order activity diagram .....	98
Figure IV. 41 Product purchase validation activity diagram .....	99
Figure IV. 42 Upload receipt activity diagram .....	100
Figure IV. 43 View favorite products activity diagram .....	101
Figure IV. 44 Add favorite product activity diagram .....	101
Figure IV. 45 Delete favorite product activity diagram.....	102
Figure IV. 46 Login activity diagram .....	103
Figure IV. 47 View user data activity diagram .....	104
Figure IV. 48 Update user data activity diagram.....	104
Figure IV. 49 Store validation activity diagram .....	105
Figure IV. 50 View store data activity diagram.....	106
Figure IV. 51 Update store data activity diagram .....	107
Figure IV. 52 View transactions activity diagram .....	108
Figure IV. 53 Payment validation activity diagram.....	108

Figure IV. 54 Login sequence diagram.....	109
Figure IV. 55 Registration sequence diagram.....	110
Figure IV. 56 View profile sequence diagram.....	110
Figure IV. 57 Update profile sequence diagram.....	111
Figure IV. 58 View product details sequence diagram.....	111
Figure IV. 59 Product search sequence diagram.....	112
Figure IV. 60 Give a product review sequence diagram.....	113
Figure IV. 61 View cart sequence diagram.....	113
Figure IV. 62 Add cart sequence diagram.....	114
Figure IV. 63 Delete cart sequence diagram.....	114
Figure IV. 64 Place an order sequence diagram.....	115
Figure IV. 65 View transactions sequence diagram.....	115
Figure IV. 66 Tracking order sequence diagram.....	116
Figure IV. 67 View favorite products sequence diagram.....	116
Figure IV. 68 Add favorite product sequence diagram.....	117
Figure IV. 69 Delete favorite product sequence diagram.....	117
Figure IV. 70 Create store sequence diagram.....	118
Figure IV. 71 Login sequence diagram.....	118
Figure IV. 72 View profile sequence diagram.....	119
Figure IV. 73 Update profile sequence diagram.....	119
Figure IV. 74 View store sequence diagram.....	120
Figure IV. 75 Update store sequence diagram.....	120
Figure IV. 76 View products sequence diagram.....	121
Figure IV. 77 Add product sequence diagram.....	121
Figure IV. 78 Update product sequence diagram.....	122
Figure IV. 79 Delete product sequence diagram.....	122
Figure IV. 80 Product search sequence diagram.....	123
Figure IV. 81 View cart sequence diagram.....	123
Figure IV. 82 Add cart sequence diagram.....	124
Figure IV. 83 Delete cart sequence diagram.....	124
Figure IV. 84 Place an order sequence diagram.....	125
Figure IV. 85 View transactions sequence diagram.....	126

Figure IV. 86 Tracking order sequence diagram .....	126
Figure IV. 87 Product purchase validation sequence diagram.....	127
Figure IV. 88 Upload receipt sequence diagram.....	127
Figure IV. 89 View favorite products sequence diagram .....	128
Figure IV. 90 Add favorite product sequence diagram.....	128
Figure IV. 91 Delete favorite product sequence diagram .....	129
Figure IV. 92 Login sequence diagram.....	129
Figure IV. 93 View user data sequence diagram .....	130
Figure IV. 94 Update user data sequence diagram .....	130
Figure IV. 95 Store validation sequence diagram.....	131
Figure IV. 96 View store data sequence diagram .....	132
Figure IV. 97 Update store data sequence diagram .....	132
Figure IV. 98 View transactions sequence diagram .....	133
Figure IV. 99 Payment validation sequence diagram .....	133
Figure IV. 100 Class diagram .....	134
Figure IV. 101 Entity relationship diagram .....	135
Figure IV. 102 Deployment diagram .....	135
Figure V. 1 Summary report for 50 users .....	158
Figure V. 2 Summary report for 100 users .....	159
Figure V. 3 Summary report for 150 users .....	159