

List of contents

ORIGINALITY STATEMENT	III
Abstract	vi
Abstract	vii
List of contents.....	viii
list of Figures.....	xi
List Table	xii
CHAPTER I INTRODUCTION	13
1.1. Background of the problem.....	13
1.2. Formulation of the problem.....	14
1.3. Scope of problem.....	15
1.4. Research purposes	15
1.5. Uses of research.....	16
For Writers.....	16
For Agencies.....	16
For Readers.....	16
CHAPTER II LITERATURE REVIEW.....	17
2.1. Previous research.....	17
2.1.1. Tandilintin, A., Candra, AP, & Adji, G. S, 2019	17
2.1.2. Ika Arthalia Wulandari, Gunayanti Kemala Sari Siregar, Puji Rahayu, 2020	17
2.1.3. Herny Februariyanti, Aryo Dwi Laksono, Jati Sasongko Wibowo, Mardi Siswo Utomo, 2021	17
2.1.4. Wau Truth, 2022	18
2.1.5. Dino Akbar Pratondo, 2023	18
2.2. Theoretical basis.....	21
2.2.1. Recommendation System.....	21
2.2.2. Collaborative Filtering	21
2.2.4. Waterfall Method	24
2.2.5. E-Commerce	24
CHAPTER III RESEARCH METHODOLOGY	25

3.1.	Time and Place of Research	25
3.2.	Research tools and materials	26
1.3.	Research stages.....	27
1.3.1.	Needs Analysis.....	28
1.3.2.	Design	30
1.3.3.	Implementation	46
1.3.4.	Testing.....	46
1.3.5.	Maintenance	46
CHAPTER IV DISCUSSION.....		47
3.3.	Research Results.....	47
3.3.2.	Admin Dashboard View.....	47
3.3.3.	Add Product View.....	48
3.3.4.	All Product View.....	49
3.3.5.	Stock Monitoring View.....	50
3.3.6.	Login Page	51
3.3.7.	Home Page	52
3.3.8.	Shop Page.....	53
3.3.9.	Cart Page	55
3.3.10.	Order Page.....	56
3.3.11.	User Dashboard Page	57
3.4.	Trials.....	57
3.4.2.	Blackbox Testing	57
3.4.3.	User Trial	63
3.5.	Discussion.....	64
3.5.1.	User Transaction Data Collection	64
3.5.2.	Similarity Calculation	65
3.5.3.	Normalization of Similarity	66
3.5.4.	Product Rating or Purchase Prediction	66
3.5.5.	Recommendation Provision	67
CHAPTER V CONCLUSION.....		68
7.1.	Conclusion.....	68
7.2.	Suggestion	69

Bibliography.....	70
Attachments - Attachments	73



list of Figures

Figure 1 Flowchart of the waterfall method	27
Figure 2 Admin Flowchart	30
Figure 3 User Flowchart.....	31
Figure 4 Collaborative filtering flowchart.....	33
Figure 5 Use Case Diagram	35
Figure 6 Activity Diagram	37
Figure 7 Mockup view of the Login page.	39
Figure 8 Mockup view of the Home page.	40
Figure 9 Mockup view of the cart page.....	41
Figure 10 Mockup view of the Order page.....	42
Figure 11 Mockup view of the Dashboard page.....	43
Figure 12 Mockup view of the Orders page.....	43
Figure 13 Mockup view of the items page.	44
Figure 14 Mockup view of the Stock Items page.	45
Figure 15 Admin Dashboard View	47
Figure 16 Add Product View	48
Figure 17 All Product View	49
Figure 18 Edit Product View.....	49
Figure 19 Stock Monitoring Display	50
Figure 20 Login Page Implementation Results	51
Figure 21 Home Page Implementation Results	52
Figure 22 Shop Page Implementation Results.....	53
Figure 23 Product Detail Page Implementation Results.....	54
Figure 24 Results of Cart Page Implementation.....	55
Figure 25 Order Page Implementation Results.....	56
Figure 26 User Dashboard Page Implementation Results	57
Figure 27 User test results.....	63
Figure 28 User test results.....	64
Figure 29 Pekanbaru Jaya Trading Business Shop.....	73

List Table

Table 1 Comparison of previous research with current research	20
Table 2 shows the research implementation time table.	25
Table 3 Sales table	28
Table 4 Blackbox Admin Test Results Table	58
Table 5 Blackbox User Test Results Table	60
Table 6 User Transaction Table	65
Table 7 Table of calculation of similarity between products	65
Table 8 Table of Recommendations for Users (U1)	67

