



ByteXpress - Team 9

ByteXecom E-commerce System

Aphiwe Shoji

u19363967
u19363967@tuks.co.za
0827135234

Kyle van Eeden

u18035176
u18035176@tuks.co.za
0614700577

Nomusa Vumisa (GL)

u17254061
u17254061@tuks.co.za
0662254267

Ofhani Mungani

u18022571
u18022571@tuks.co.za
0766495693

Thenjiwe Ntsonda (PM)

u18139958
u18139958@tuks.co.za
0817473388

ITERATION - 9

System Documentation - This iteration has the collated system documentation of the final versions of all system design documentation of the ByteXpress E-commerce system.

The meticulously compiled documents consist of the updated requirements lists, complexity matrix, logical and technical narratives, technical primitive, UML activity, sequence and state diagrams as well as the test cases and screen designs for all the use cases.



Client Information - Jannes Janse van Rensburg is the co-owner of Natuurlik. He is currently working as a Business Area Manager for DSV - Global Transport and Logistics.



Client

Jannes Janse van Rensburg

Email

jan2rens@gmail.com

Cellphone number

072 881 0004

Table of Contents

1. Iteration Introduction	4
2. Activity Diagrams	5
Introduction	5
2.1. User Management Subsystem.....	6
2.2. Administrative Subsystem.....	14
2.3. Reseller Subsystem	17
2.4. Product Subsystem.....	19
2.5. Order Subsystem	38
2.6. Query Reason Subsystem.....	60
2.7. Review Subsystem.....	66
2.8. Inventory Management Subsystem.....	71
2.9. Location Subsystem.....	92
2.10. Reporting Subsystem	108
2.11. Supplier Subsystem	116
2.12. Driver Subsystem	121
2.13. VAT Subsystem.....	123
2.14. Reseller Credit Settlement Time Subsystem	127
2.15. Video Subsystem	128
2.16. Help Subsystem	134
Conclusion.....	134
3. Iteration Conclusion	135

Table of Figures

Figure 1 – Login User use case 1.1	6
Figure 2 – Logout User use case 1.2.....	7
Figure 3 - View Profile Details use case 1.3	7
Figure 4 - Reset Password use case 1.4	8
Figure 5 - Forgot Password use case 1.5.....	10
Figure 6 - Register Customer use case 1.6	12
Figure 7 - Update Profile Details use case 1.7	12
Figure 8 - Update Email Address use case 1.8	13
Figure 9 - Register User use case 2.1	14
Figure 10 - Search User use case 2.2.....	15
Figure 11- Update User Details use case 2.3	16
Figure 12- Delete User use case 2.4.....	17

Figure 13 - Send Payment Reminder use case 3.1	18
Figure 14 – Capture Proof of Payment 3.2	18
Figure 15 – Add Product use case 4.1	21
Figure 16 - Search Product use case 4.2	21
Figure 17 - Update Product use case 4.3	23
Figure 18 - Delete Product use case 4.4.....	23
Figure 19 - Add Product Category use case 4.5	25
Figure 20 - Search Product Category use case 4.6.....	25
Figure 21 - Update Product Category use case 4.7	27
Figure 22 - Delete Product Category use case 4.8.....	27
Figure 23 - Add Product Brand use case 4.9	29
Figure 24 - Search Product Brand use case 4.10.....	29
Figure 25 - Update Product Brand use case 4.11.....	31
Figure 26 - Delete Product Brand use case 4.12	31
Figure 27 - Create Return Reason use case 4.13	32
Figure 28 - Search Return Reason use case 4.14	33
Figure 29 - Update Return Reason use case 4.15	35
Figure 30 - Delete Return Reason use case 4.16.....	35
Figure 31 - Browse Product Catalogue use case 4.17	36
Figure 32 - Configure Product use case 4.18	37
Figure 33 – Add Item(s) to Cart use case 5.1	40
Figure 34 – Update Cart use case 5.2	40
Figure 35 – Remove Item(s) from Cart use case 5.3	41
Figure 36 – View Cart use case 5.4	42
Figure 37 – Checkout Cart use case 5.5	42
Figure 38 – Make Payment use case 5.6.....	43
Figure 39 – View Orders Overview use case 5.7	43
Figure 40– Search Order use case 5.8.....	44
Figure 41 – Query Order use case 5.9.....	45
Figure 42 – Review Order use case 5.10.....	46
Figure 43 – Create Courier use case 5.11	47
Figure 44 –Search Courier use case 5.12	48
Figure 45 – Update Courier use case 5.13	50
Figure 46 – Delete Courier use case 5.14.....	52
Figure 47 – Search Placed Order use case 5.15	52
Figure 48 – View Placed Order use case 5.16	53
Figure 49 – Cancel Placed Order use case 5.17	53
Figure 50 – Cancel Reseller Order use case 5.18	54
Figure 51 – Approve/Reject Reseller Order use case 5.19	55
Figure 52 – Dispatch Order use case 5.20.....	56
Figure 53 –Log Back Order use case 5.21	56
Figure 54 –Confirm Order use case 5.22.....	57
Figure 55 – Reject Order use case 5.23.....	57
Figure 56 – Send Order Confirmation Reminder use case 5.24.....	58
Figure 57 – Update Order Confirmation Time use case 5.25	59
Figure 58 - Create Query Reason use case 6.1.....	60
Figure 59 - Search Query Reason use case 6.2	61
Figure 60 - Update Query Reason use case 6.3	63

Figure 61 -Delete Query Reason use case 6.4.....	63
Figure 62 - Review Order Query use case 6.5	64
Figure 63 -View Order Query Feedback use case 6.6	65
Figure 64 - Create Review Reason use case 7.1	66
Figure 65- Search Review Reason use case 7.2.....	67
Figure 66 - Update Review Reason use case 7.3.....	69
Figure 67 - Delete Review Reason use case 7.4	69
Figure 68 - View Order Review use case 7.5.....	70
Figure 69 – Create Inventory Item use case 8.1	71
Figure 70 – Search Inventory Item use case 8.2	72
Figure 71 – Update Inventory Item use case 8.3	74
Figure 72 – Delete Inventory Item use case 8.4.....	74
Figure 73 – Create Inventory Type use case 8.5	75
Figure 74 – Search Inventory Type use case 8.6	76
Figure 75 – Update Inventory Type use case 8.7	78
Figure 76 – Delete Inventory Type use case 8.8	78
Figure 77 – Create Write-Off Reason use case 8.9	80
Figure 78 – Search Write-Off Reason use case 8.10	80
Figure 79 –Update Write-Off Reason use case 8.11	82
Figure 80 – Delete Write-Off Reason use case 8.12	83
Figure 81 –Write-Off Inventory use case 8.13	83
Figure 82 –Write-Off Product use case 8.14.....	84
Figure 83 – Convert Inventory to Product use case 8.15.....	85
Figure 84 – Search Procured Inventory use case 8.16	86
Figure 85 –View Procured Inventory Details use case 8.17.....	86
Figure 86 –Capture Procured Inventory use case 8.18	88
Figure 87 –Capture Returned Product use case 8.19	90
Figure 88 – Package Order use case 8.23	90
Figure 89 –Send Low Inventory Alert use case 8.23	91
Figure 90 – Send Inventory Out of Stock Alert use case 8.22	91
Figure 91 – Create Country use case 9.1.....	92
Figure 92 – Search Country use case 9.2	93
Figure 93 – Update Country use case 9.3	95
Figure 94 – Delete Country use case 9.4.....	95
Figure 95 – Add Province use case 9.5.....	96
Figure 96 – Search Province use case 9.6	97
Figure 97 – Update Province use case 9.7	99
Figure 98 – Delete Province use case 9.8.....	99
Figure 99 –Create City use case 9.9	100
Figure 100 – Search City use case 9.10	101
Figure 101– Update City use case 9.11	103
Figure 102– Delete City use case 9.12	103
Figure 103 – Add Suburb use case 9.13	104
Figure 104 –Search Suburb use case 9.14.....	105
Figure 105 –Update Suburb use case 9.15.....	107
Figure 106 –Delete Suburb use case 9.16.....	107
Figure 107 - Generate Inventory List Report use case 10.1.....	108
Figure 108 - Generate Sales (by Top 5 Clients) Report use case 10.2.....	109

Figure 109 - Generate Product List Report use case 10.3.....	110
Figure 110 - Generate Customer List Report use case 10.4.....	111
Figure 111 - Generate Reseller List Report use case 10.5	111
Figure 112 - Generate Produced Products Report use case 10.6	112
Figure 113 - Generate Order (by Status) Report use case 10.7	112
Figure 114 - Generate Order (by Region) Report use case 10.8	113
Figure 115 - Generate Sales (by Product) Report use case 10.9.....	114
Figure 116 - Generate Sales (by Month) Report use case 10.10	114
Figure 117 - View Dashboard Overview use case 10.11	115
Figure 118 – Create Supplier use case 11.1	116
Figure 119 – Search Supplier use case 11.2	117
Figure 120 – Update Supplier use case 11.3.....	119
Figure 121 – Delete Supplier use case 11.4	119
Figure 122 – Send Supplier Order use case 11.5	121
Figure 123 – View Deliveries use case 12.1	121
Figure 124 – View Previous Deliveries use case 12.2	121
Figure 125 – Confirm Delivery use case 12.3.....	122
Figure 126 – Create VAT use case 13.1	123
Figure 127 – Search VAT use case 13.2.....	124
Figure 128 – Update VAT Details use case 13.3.....	126
Figure 129 – Delete VAT use case 13.4	126
Figure 130 – Update Reseller Credit Settlement Time use case 14.1.....	127
Figure 131 – Add Video use case 15.1	130
Figure 132 – Search Video use case 15.2	130
Figure 133 – Update Video Details use case 15.3.....	132
Figure 134 – Delete Video use case 15.4	132
Figure 135 – View Video use case 15.5.....	133
Figure 136 - View Help Document use case 16.1.....	134

1. Iteration Introduction

For this iteration the ByteXpress team have compiled a document that illustrates the collated system documentation of the final versions of all system design documentation for the ByteXpress E-commerce system.

2. Activity Diagrams

Introduction

In this section we present the proposed system's finalised activity diagrams which will be used by ByteXpress team to understand the flow of programme execution of the system during the development phase of ByteXecom system.

2.1. User Management Subsystem

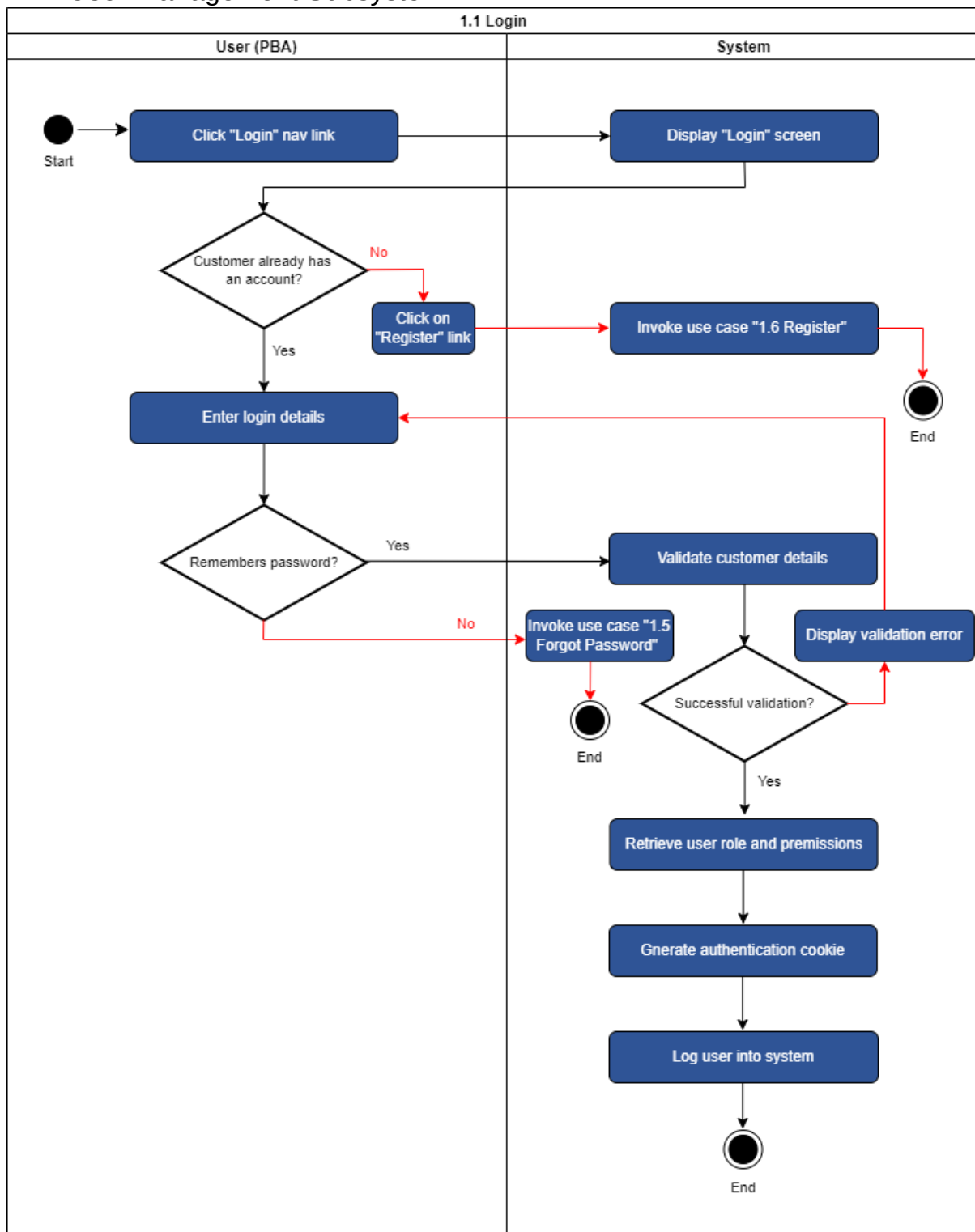


Figure 1 – Login User use case 1.1

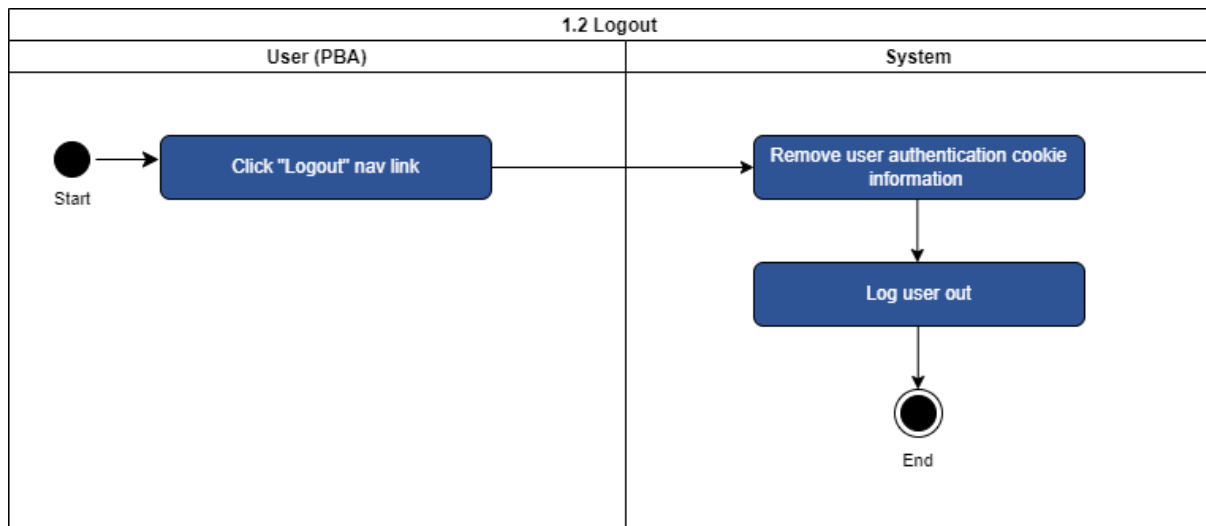


Figure 2 – Logout User use case 1.2

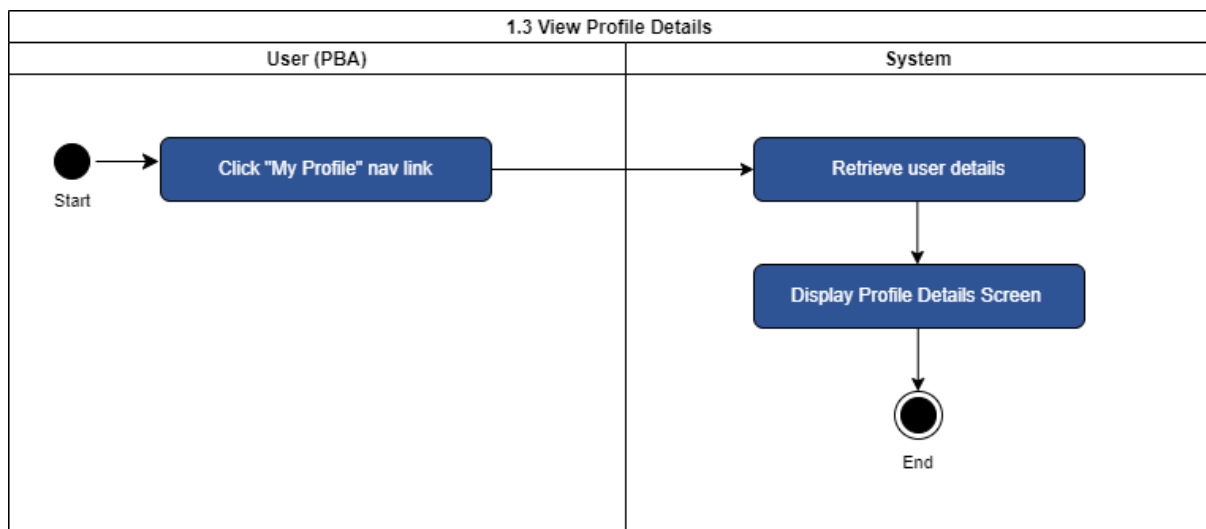


Figure 3 - View Profile Details use case 1.3

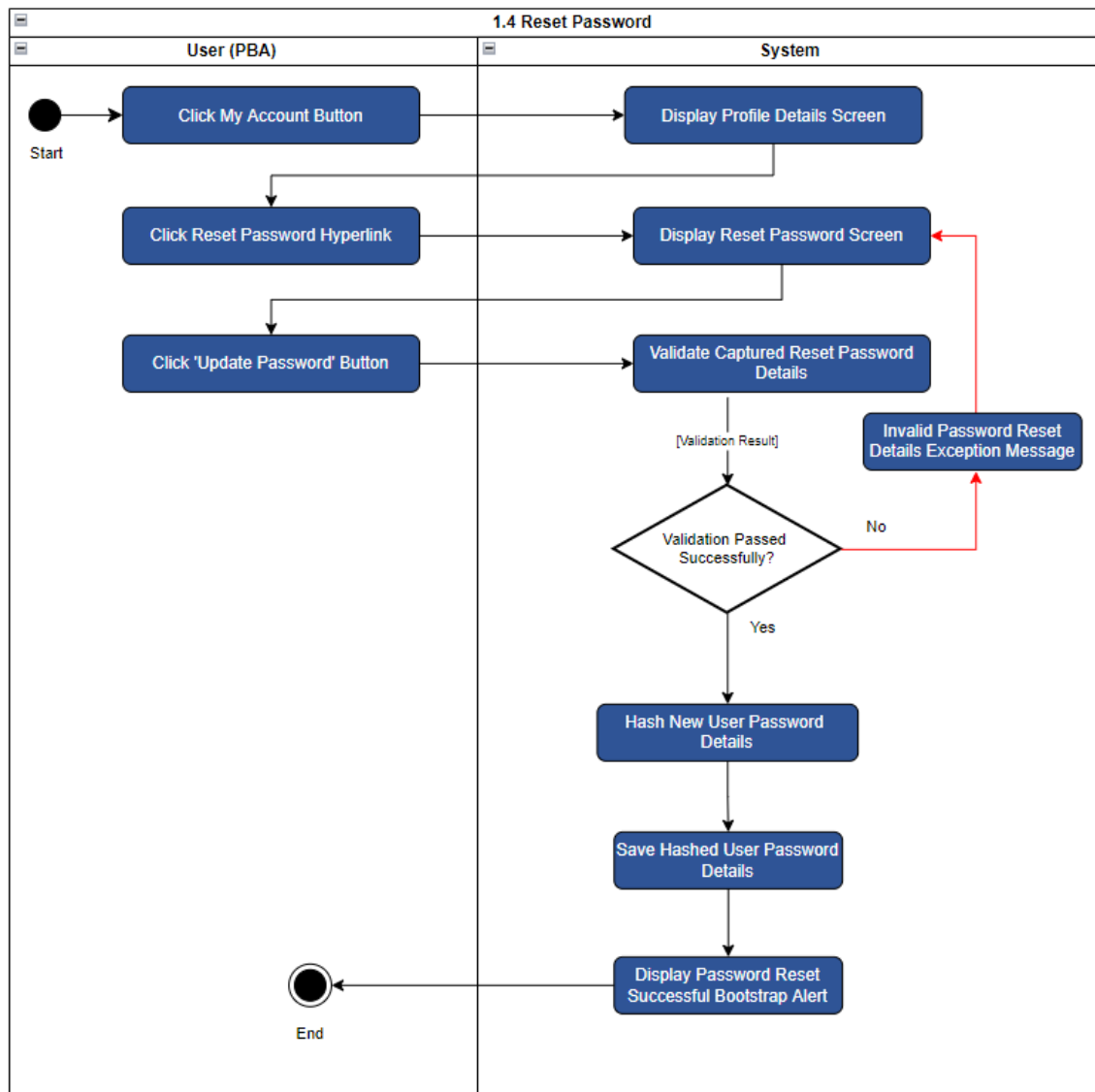


Figure 4 - Reset Password use case 1.4

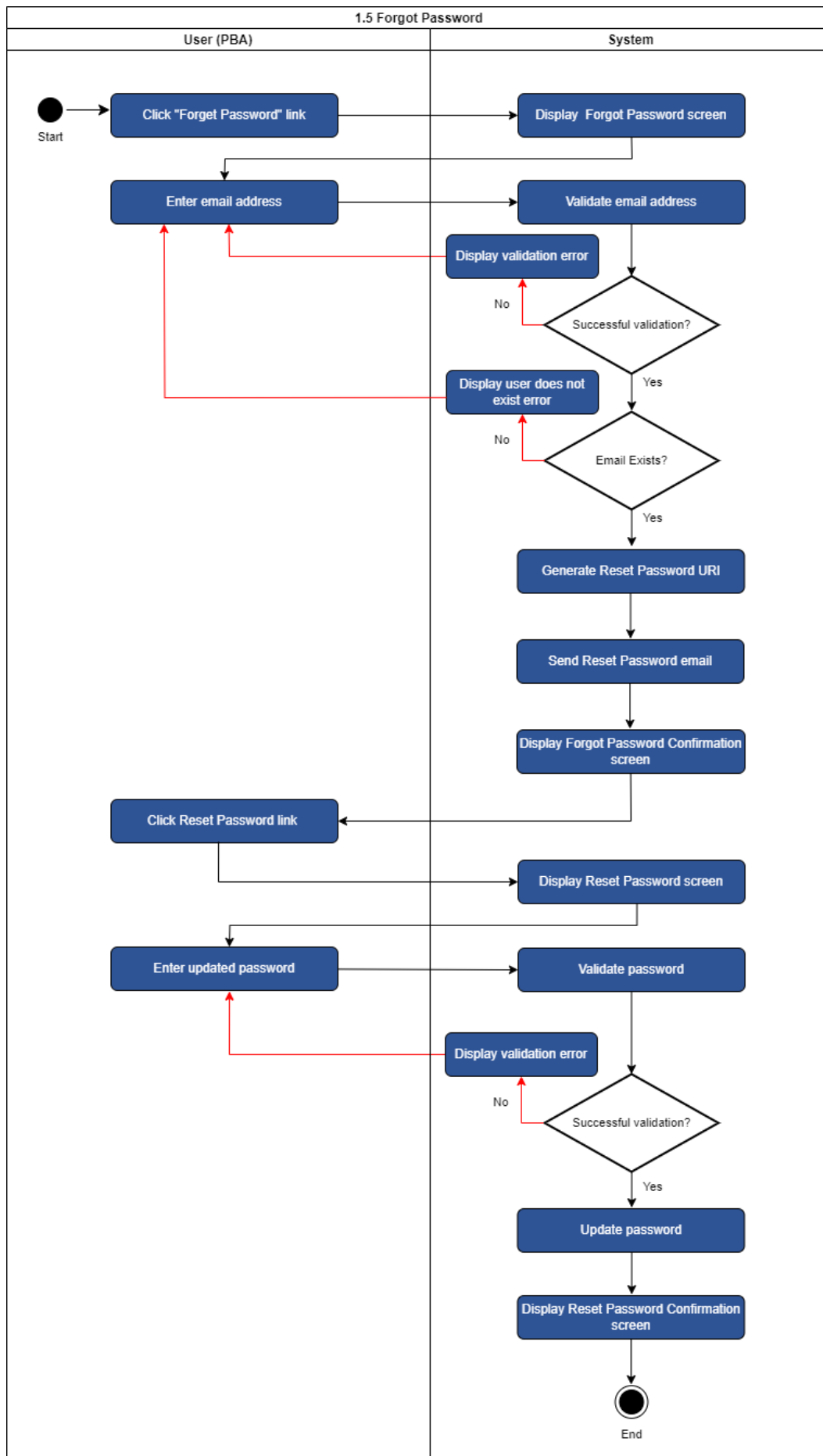


Figure 5 - Forgot Password use case 1.5

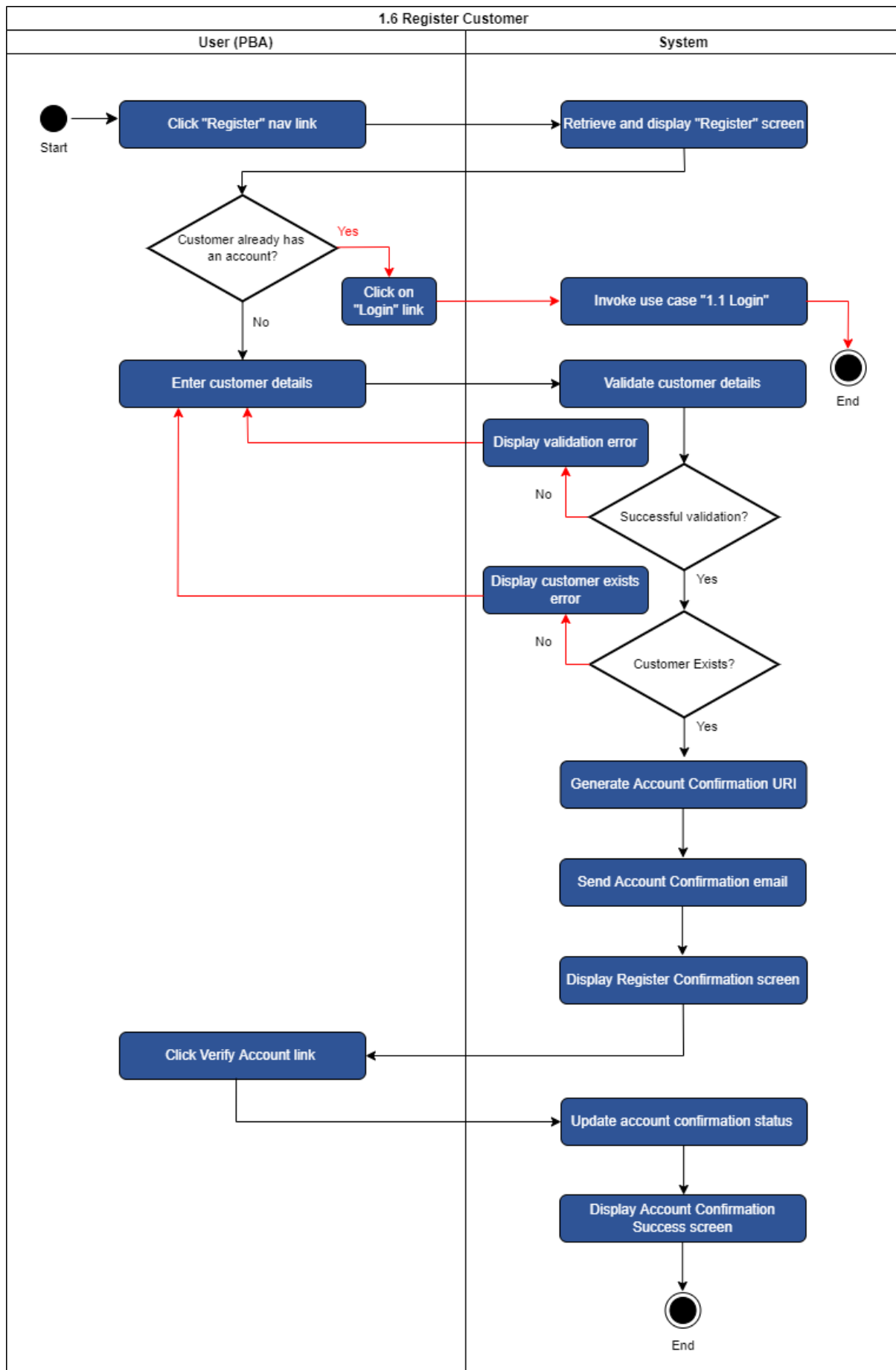


Figure 6 - Register Customer use case 1.6

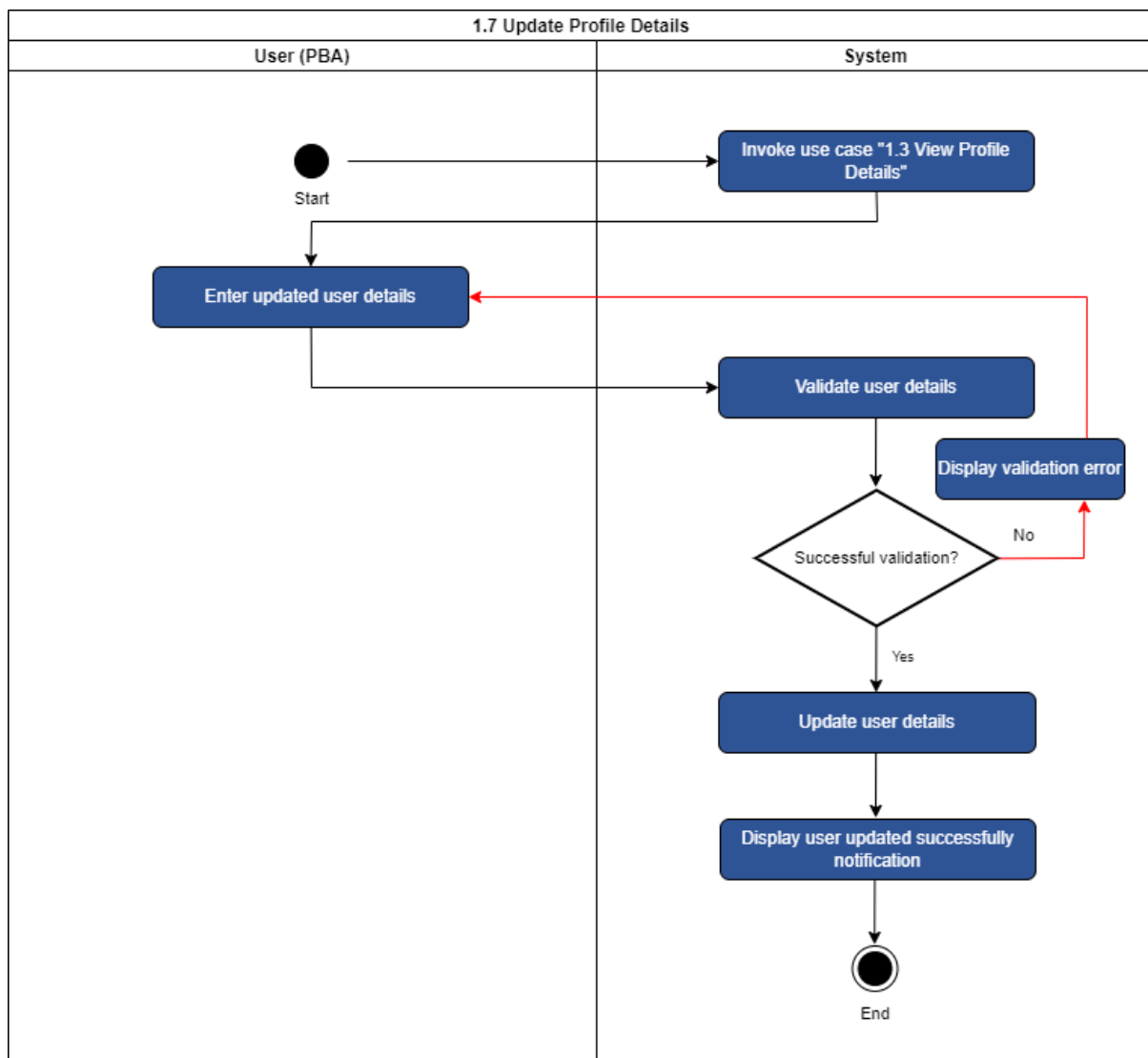


Figure 7 - Update Profile Details use case 1.7

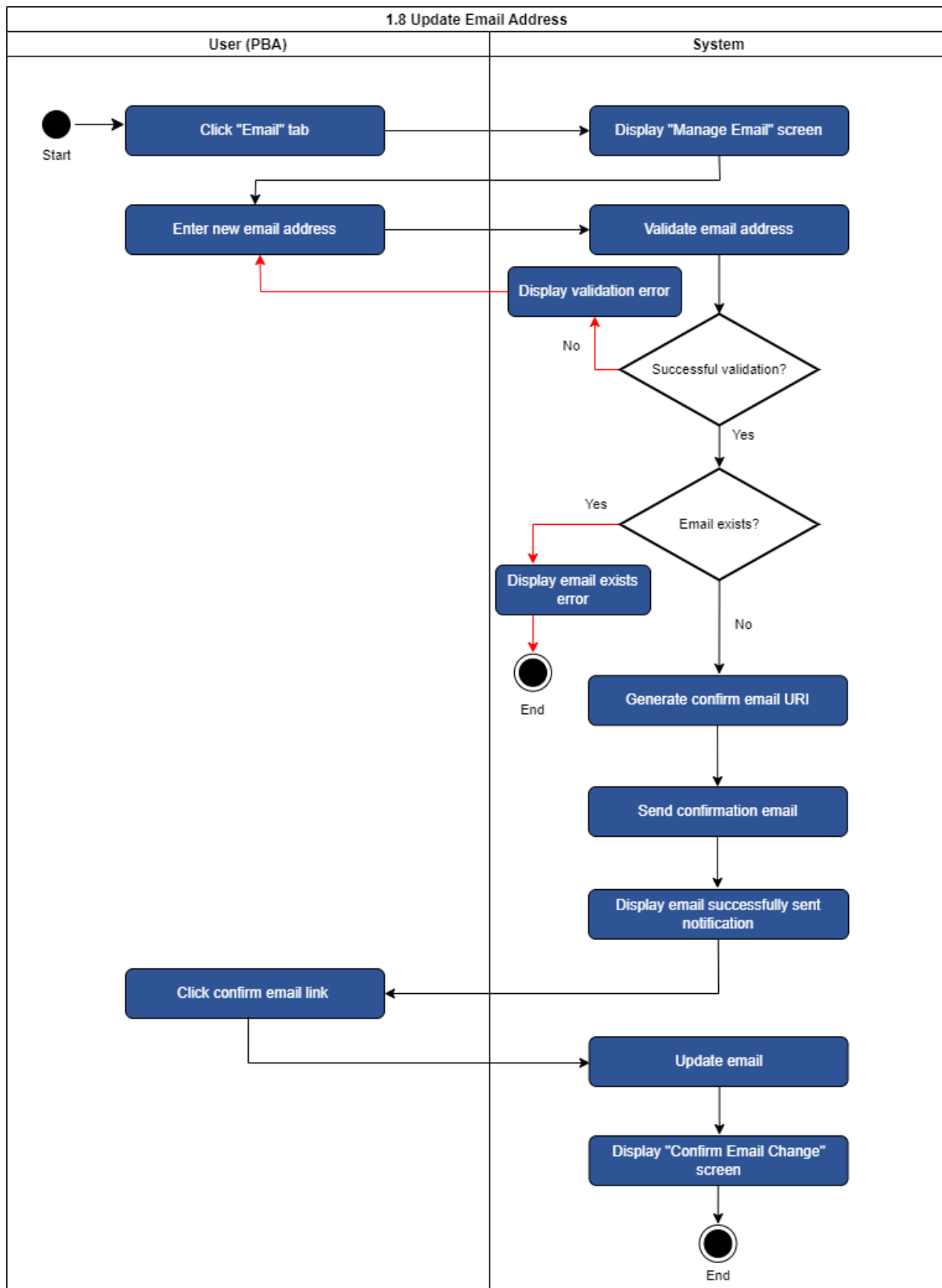


Figure 8 - Update Email Address use case 1.8

2.2. Administrative Subsystem

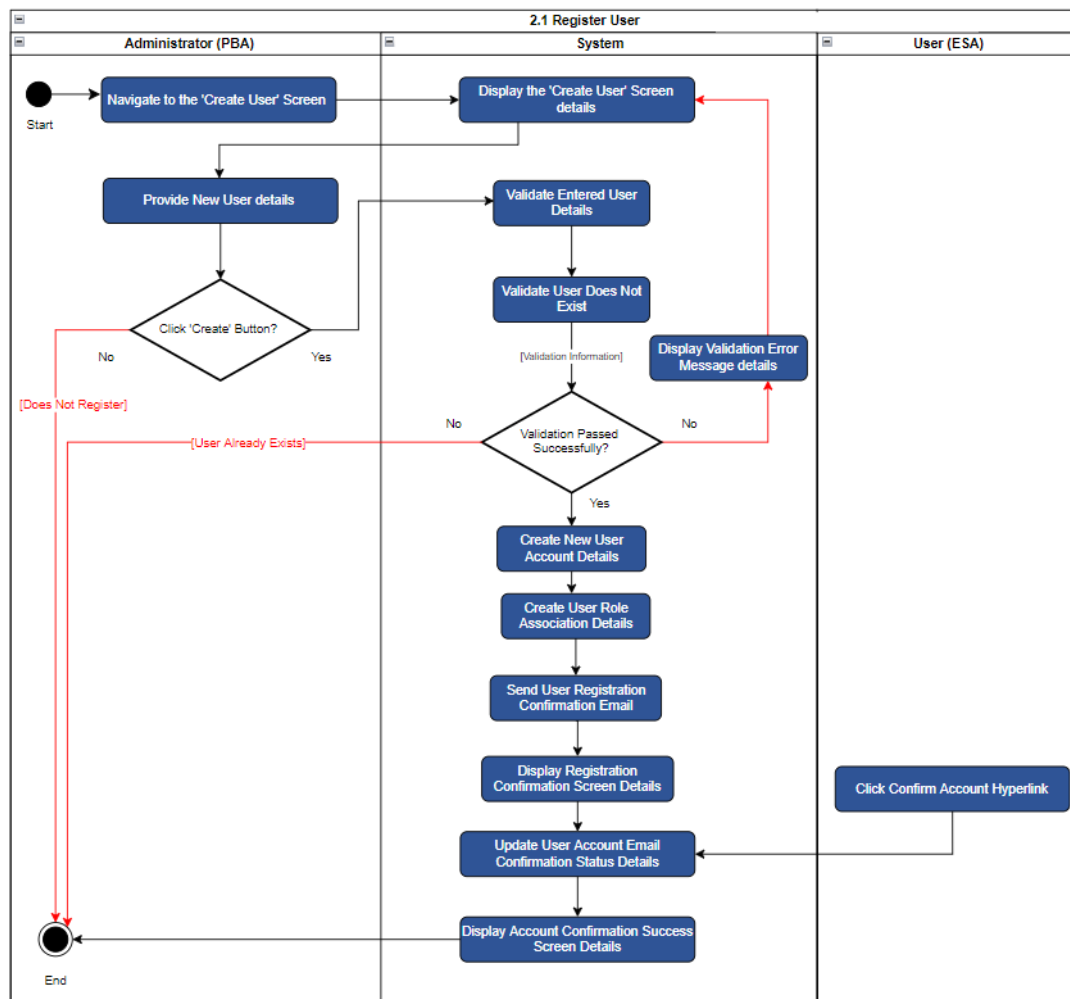


Figure 9 - Register User use case 2.1

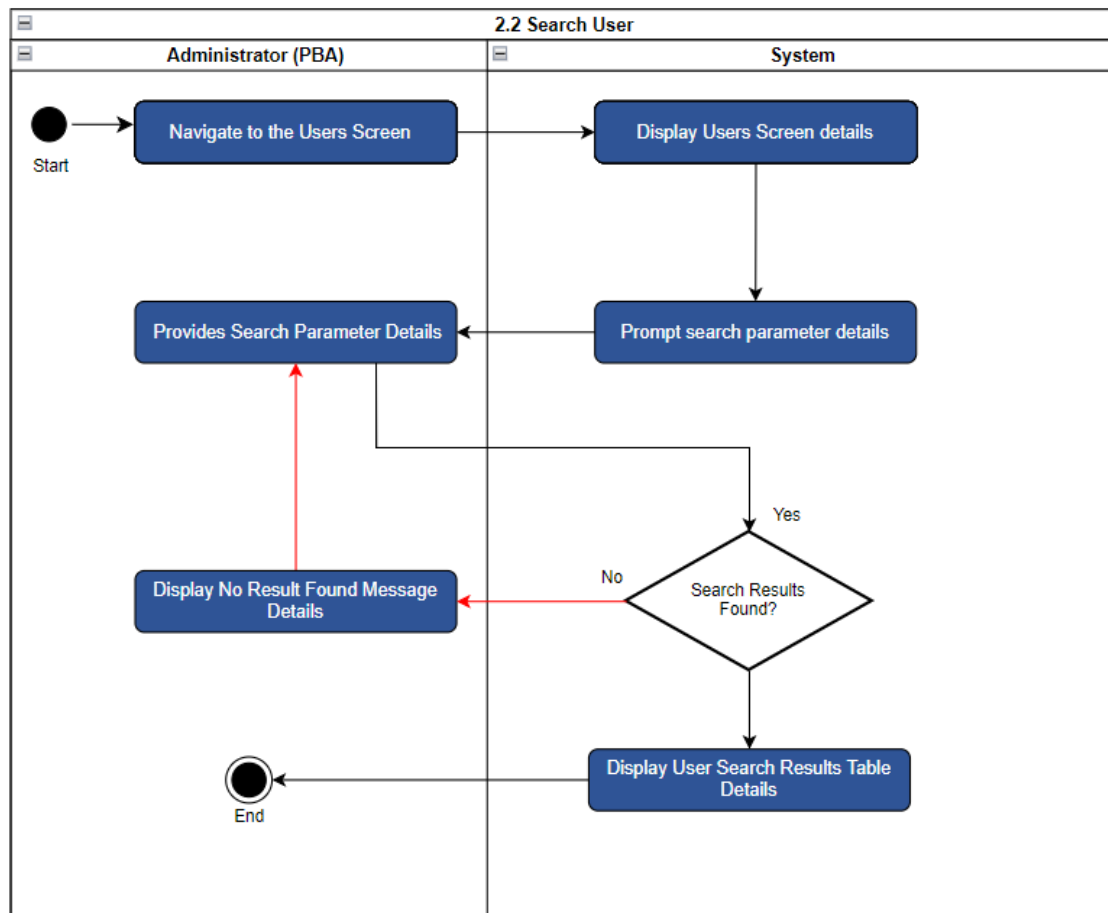


Figure 10 - Search User use case 2.2

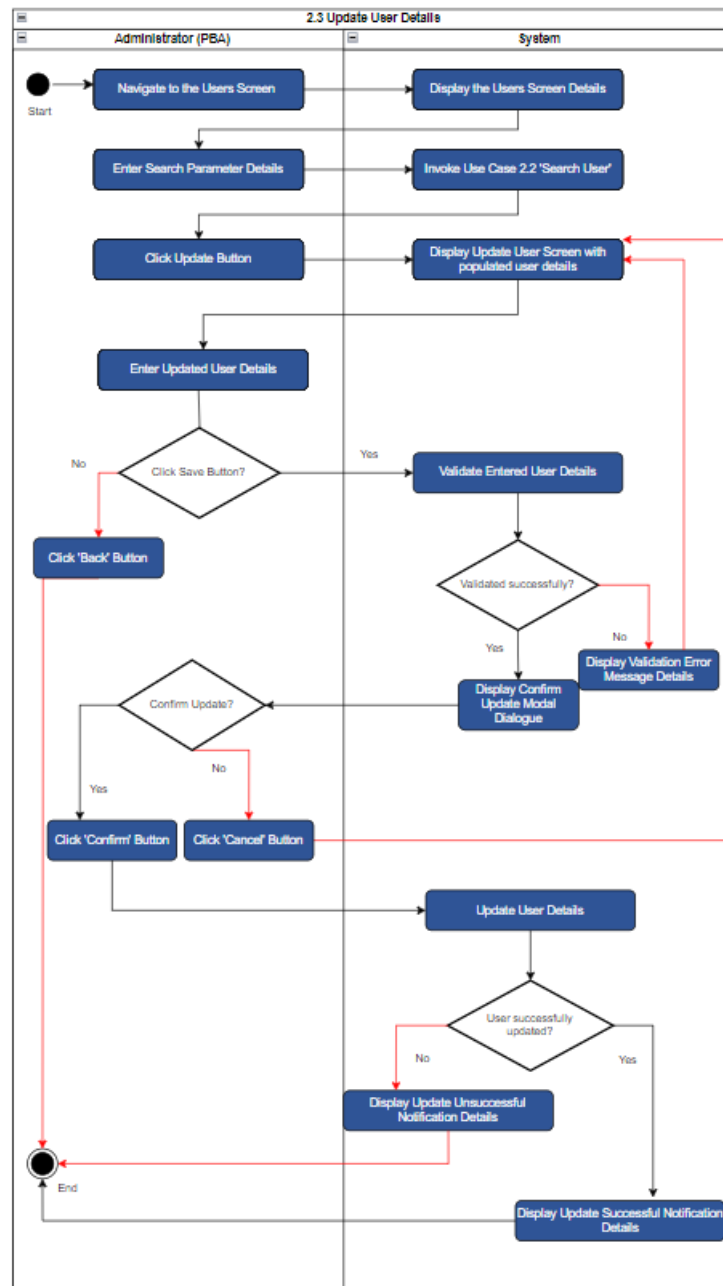


Figure 11- Update User Details use case 2.3

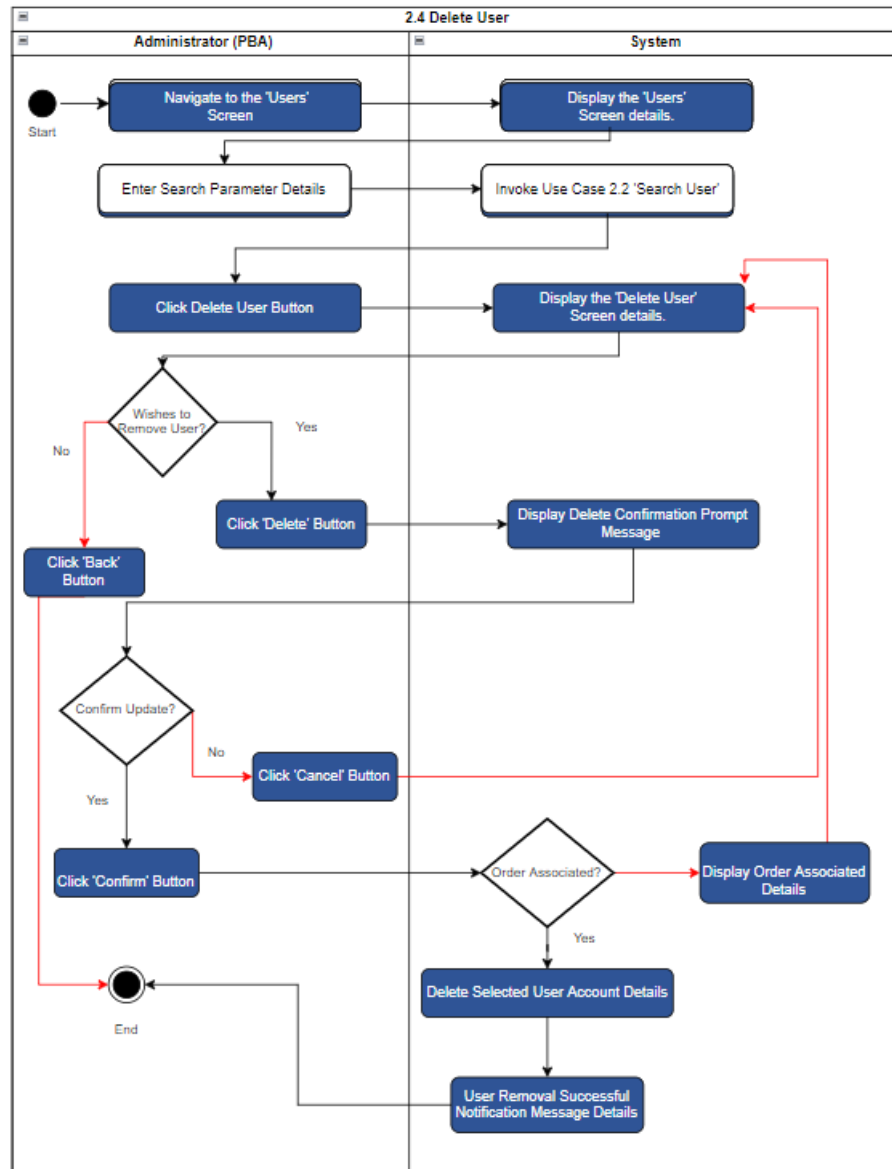


Figure 12- Delete User use case 2.4

2.3. Reseller Subsystem

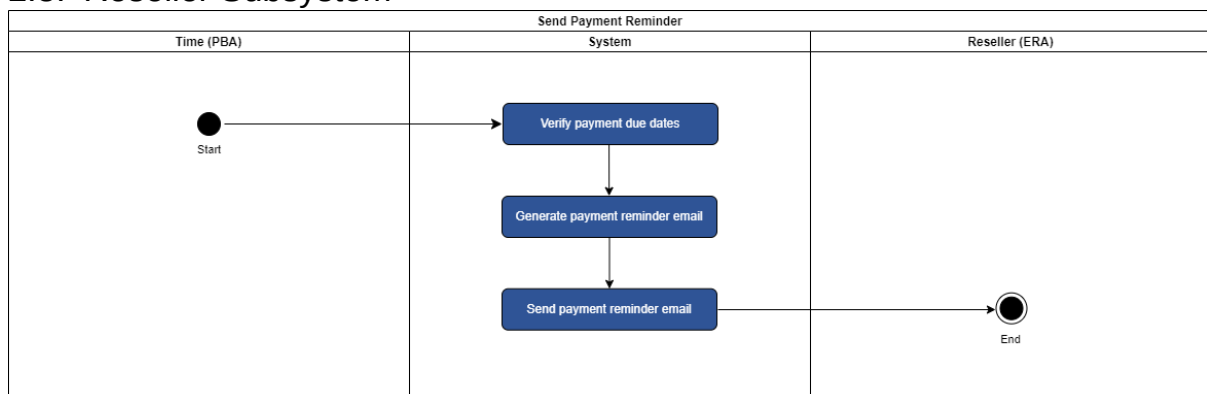


Figure 13 - Send Payment Reminder use case 3.1

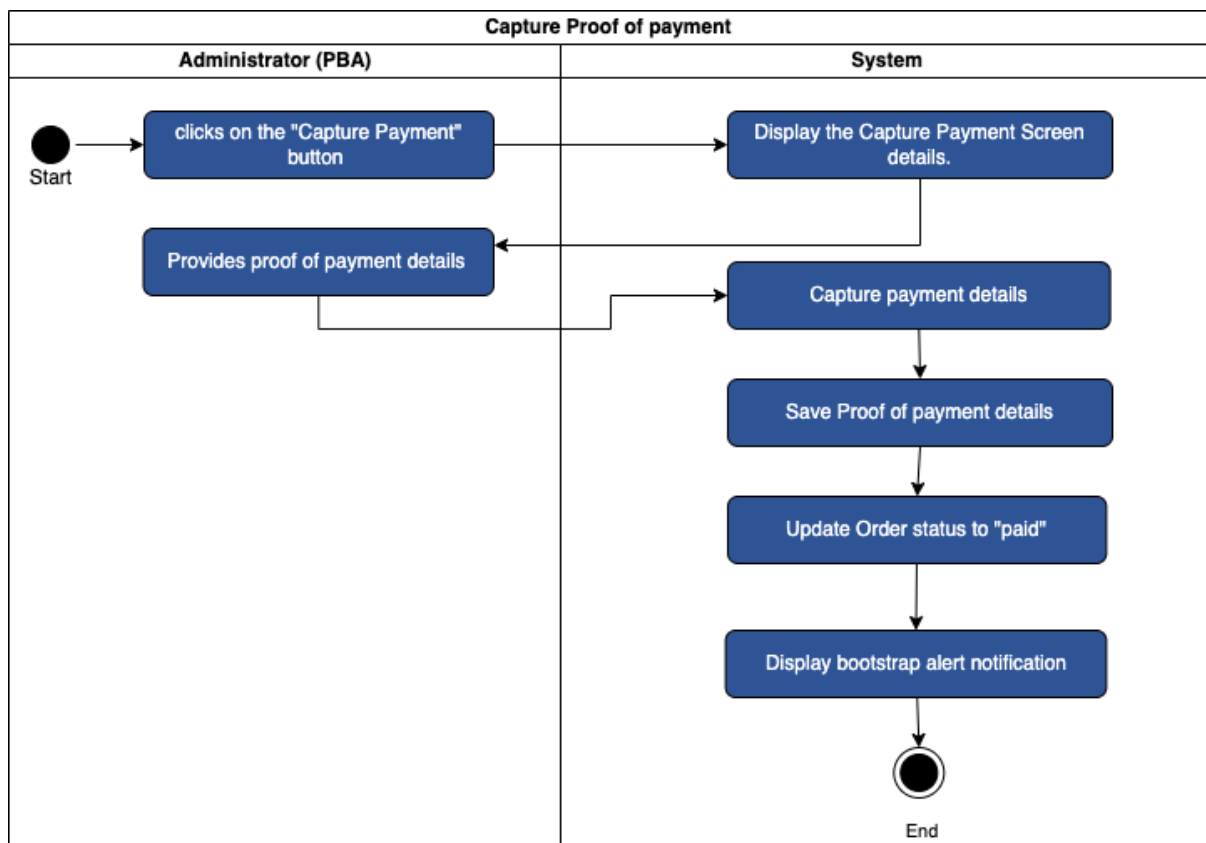


Figure 14 – Capture Proof of Payment 3.2

2.4. Product Subsystem

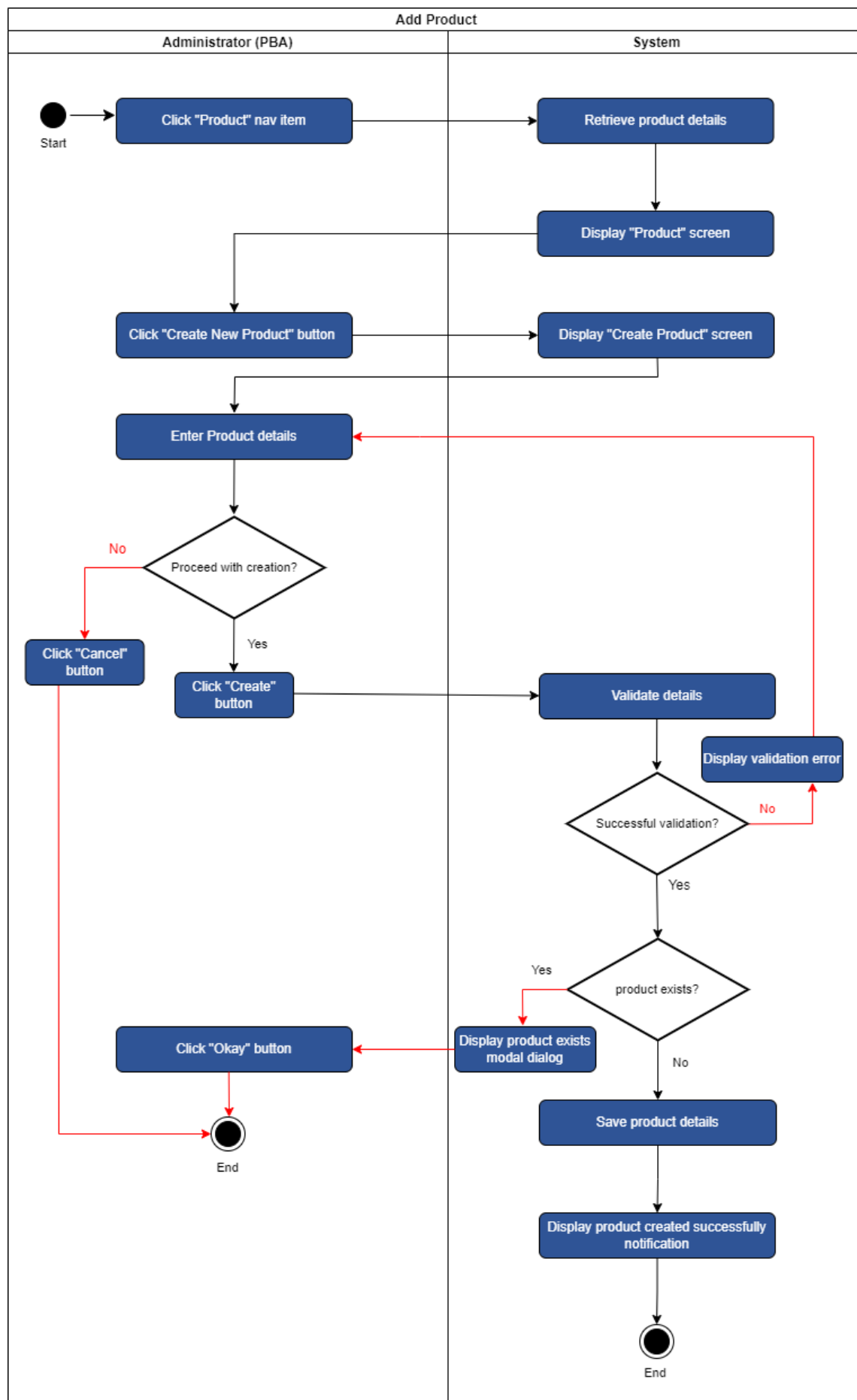


Figure 15 – Add Product use case 4.1

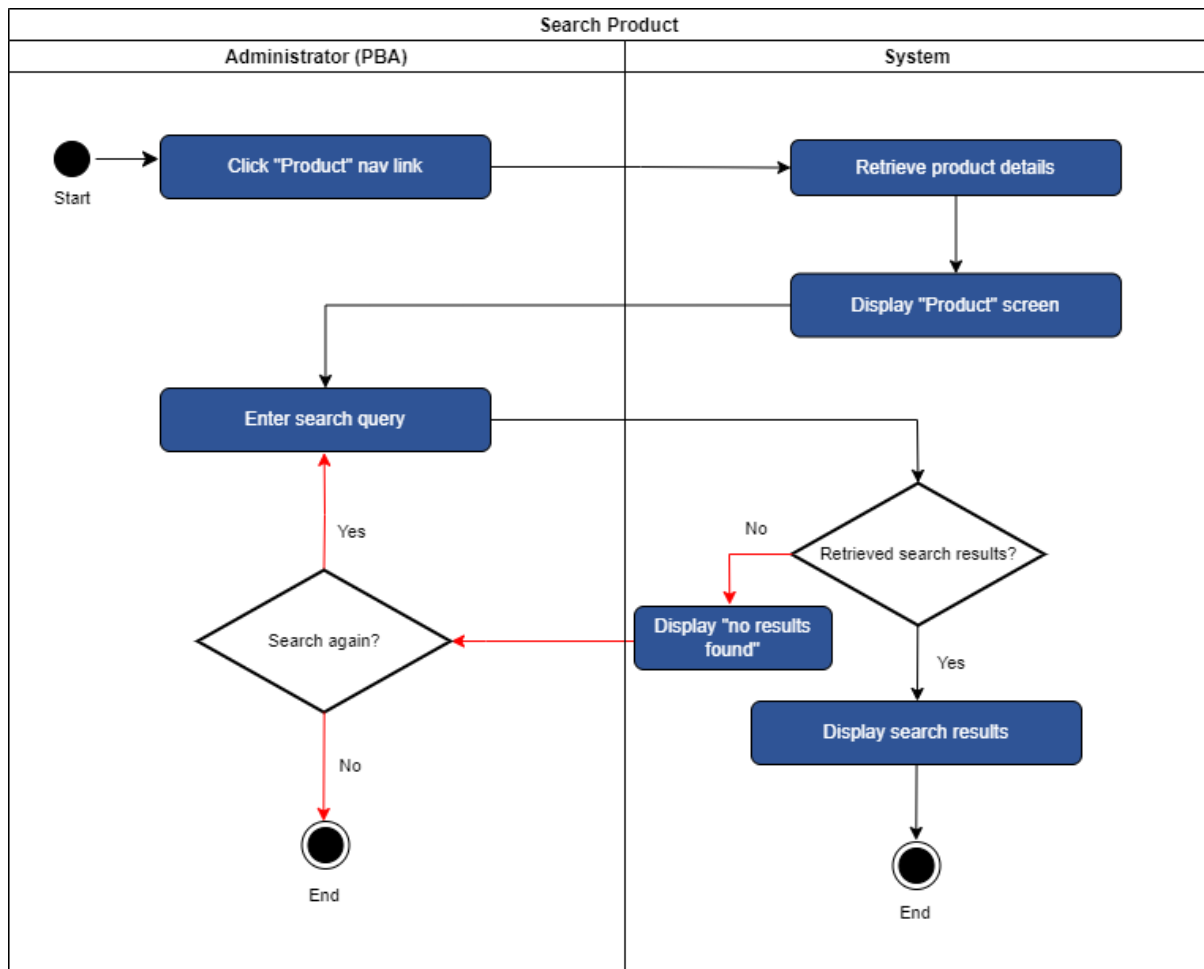


Figure 16 - Search Product use case 4.2

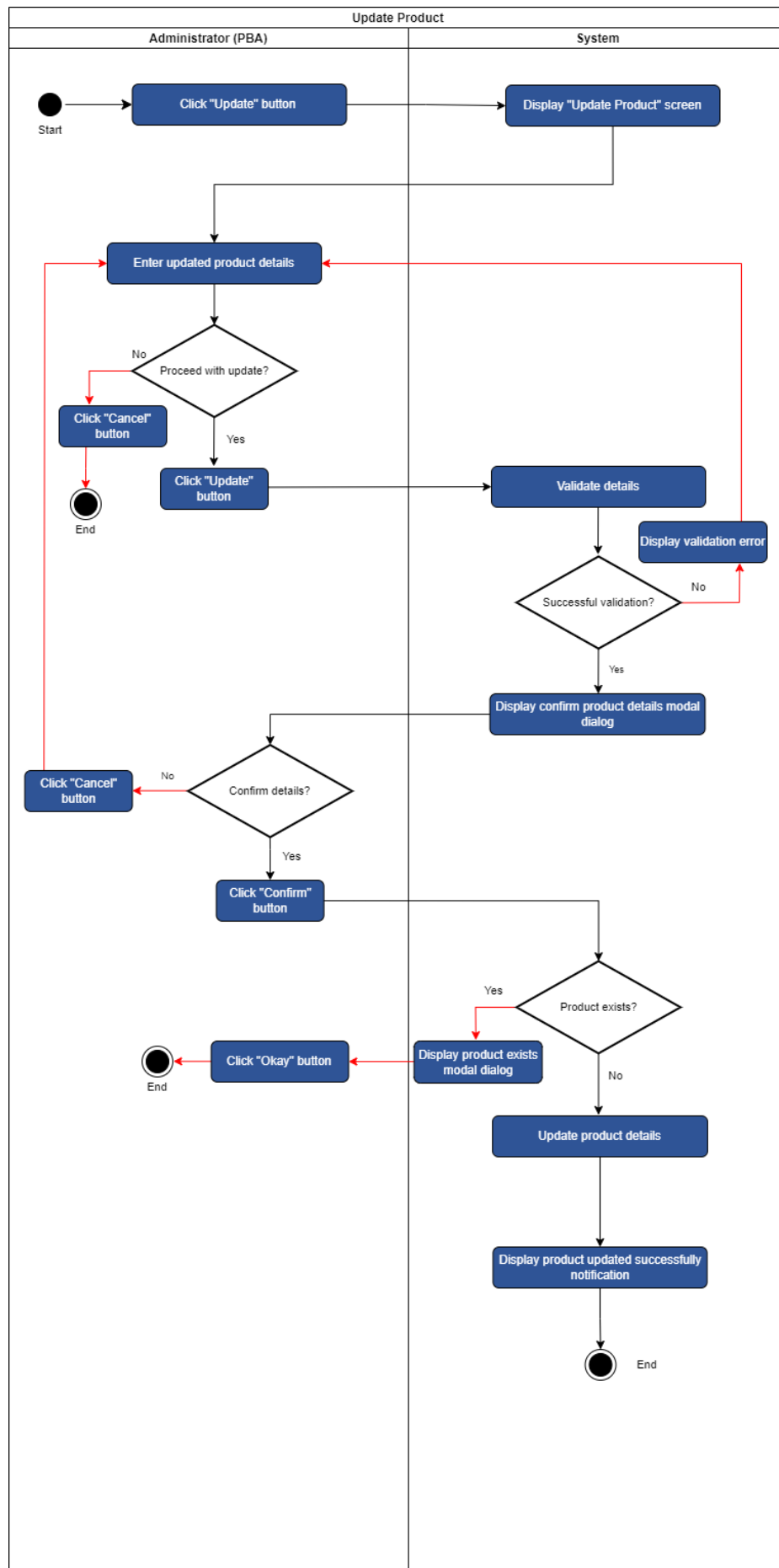


Figure 17 - Update Product use case 4.3

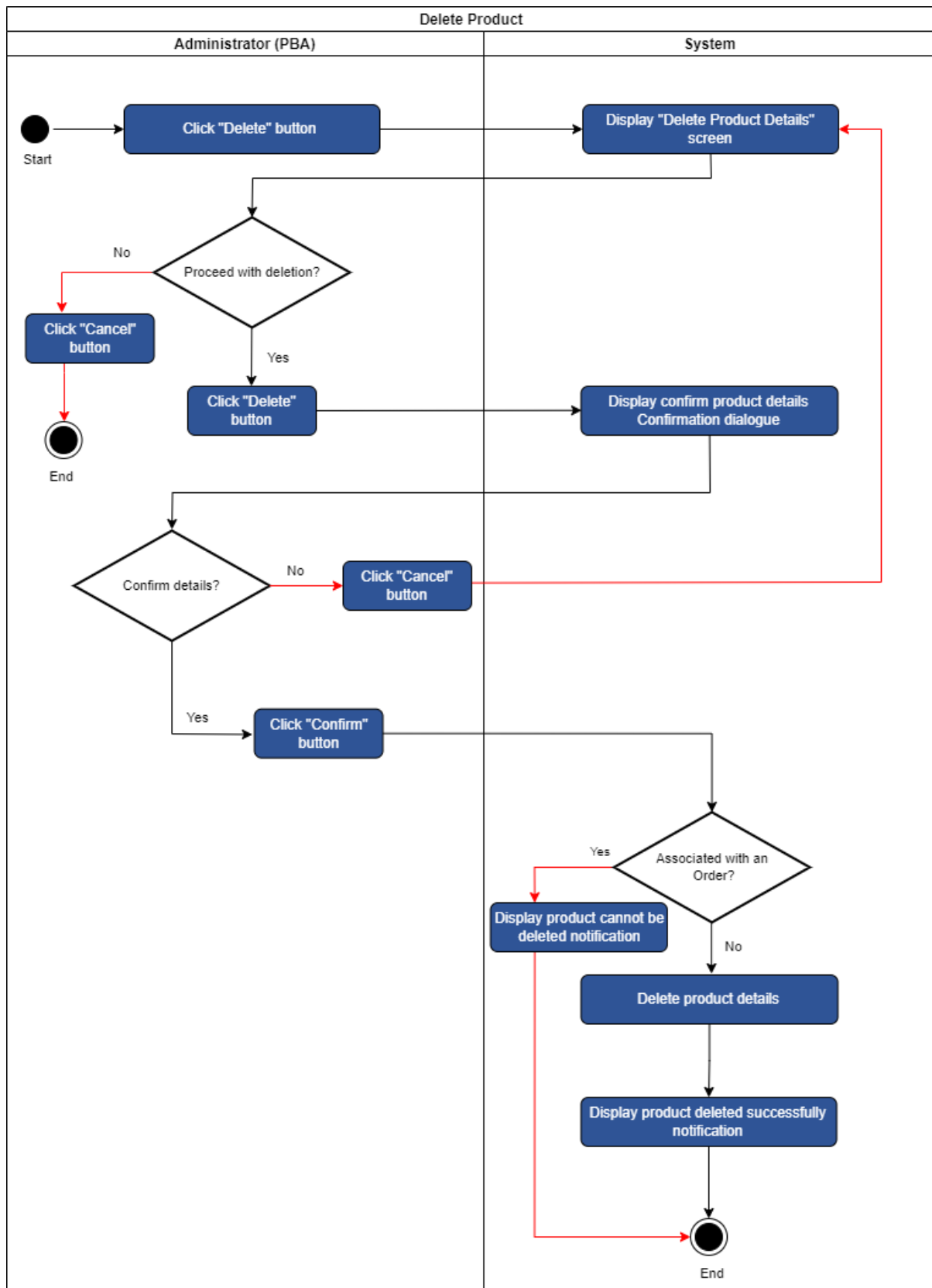


Figure 18 - Delete Product use case 4.4

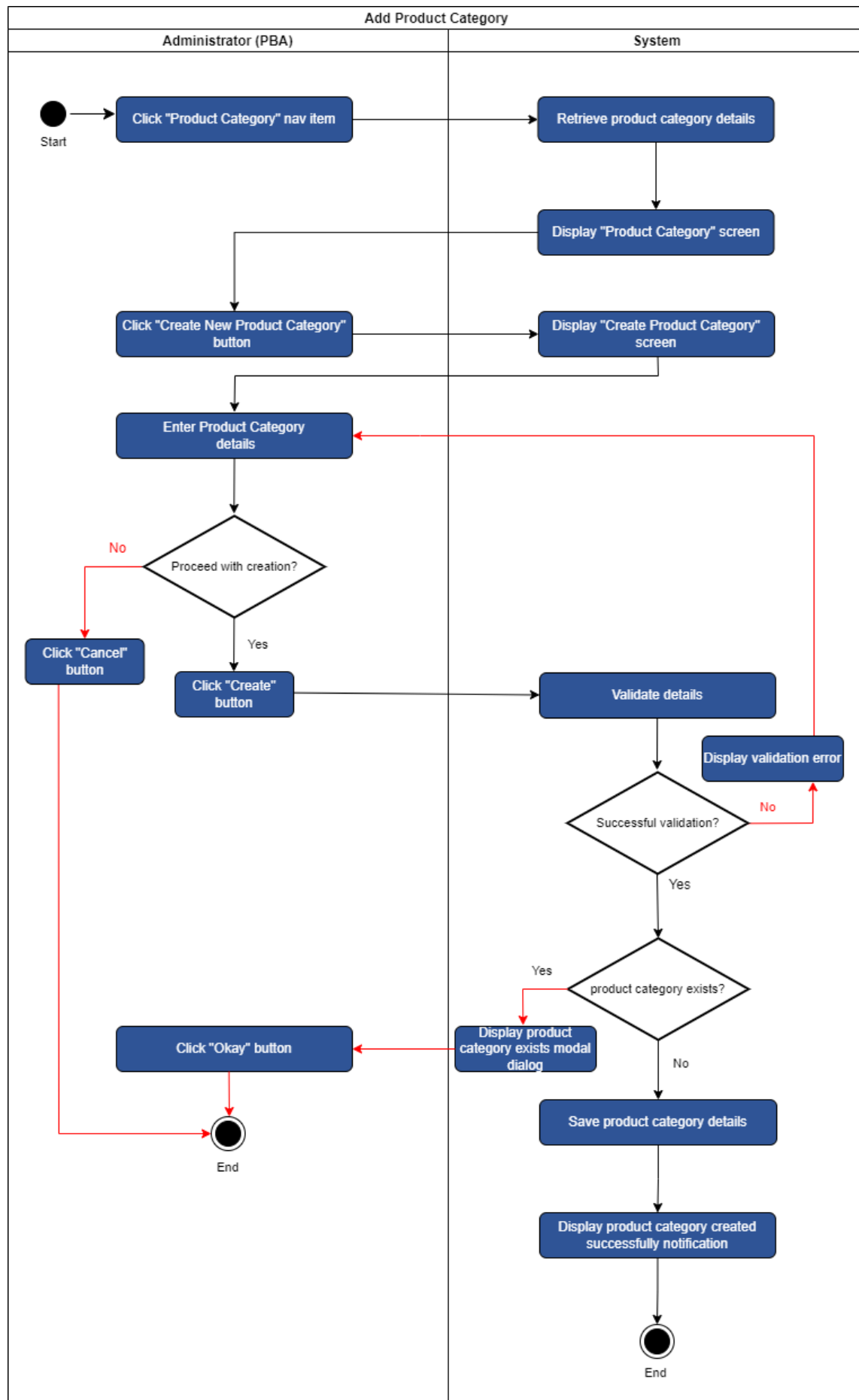


Figure 19 - Add Product Category use case 4.5

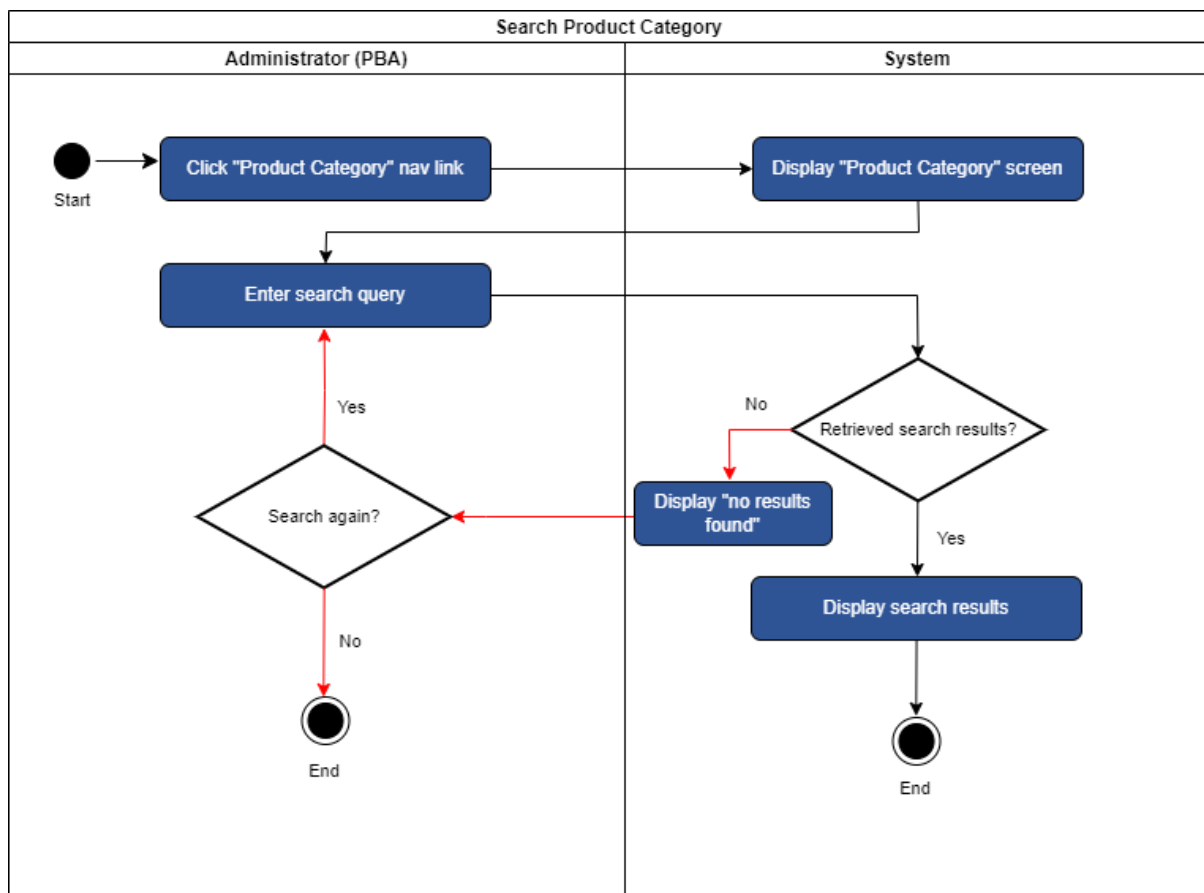


Figure 20 - Search Product Category use case 4.6

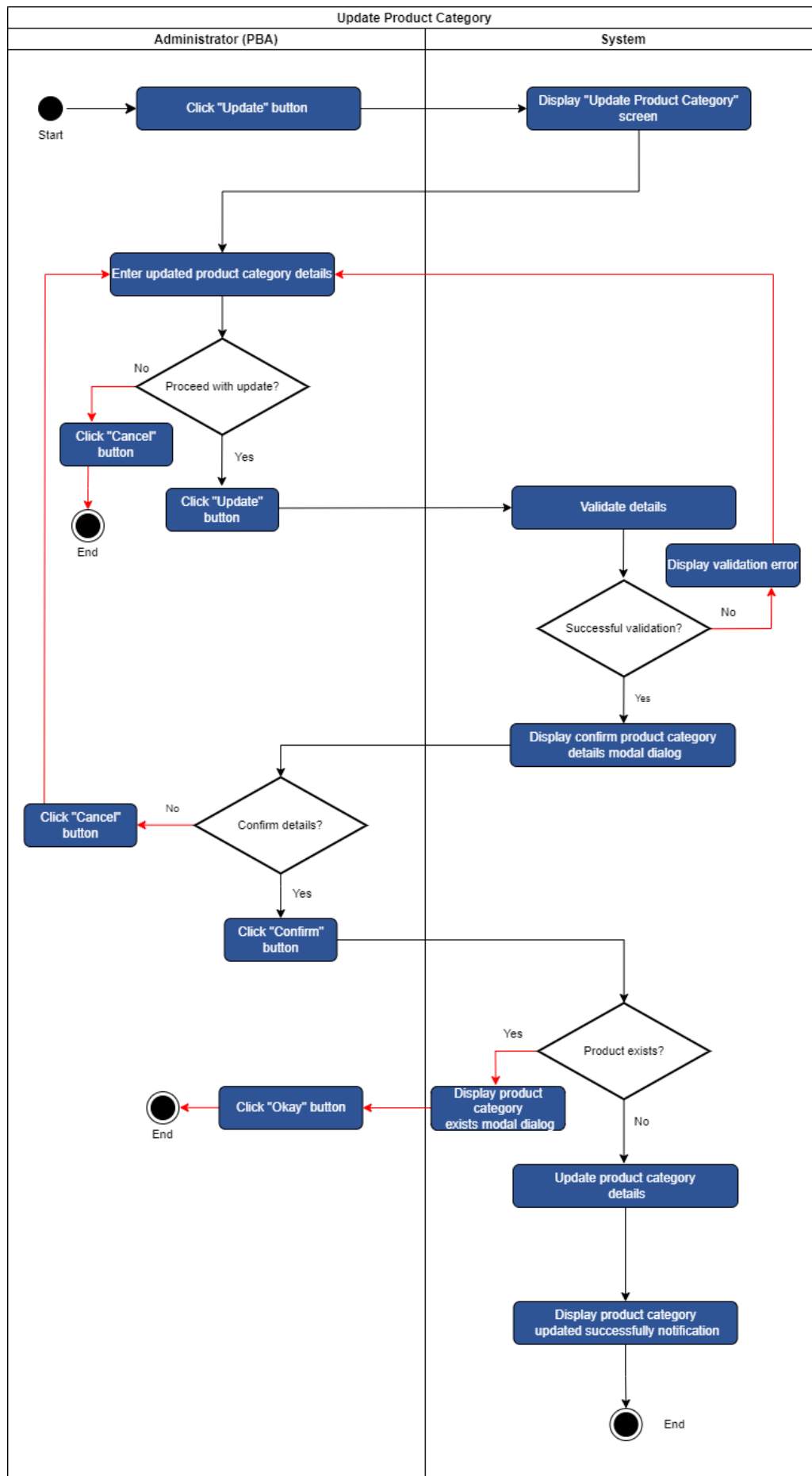


Figure 21 - Update Product Category use case 4.7

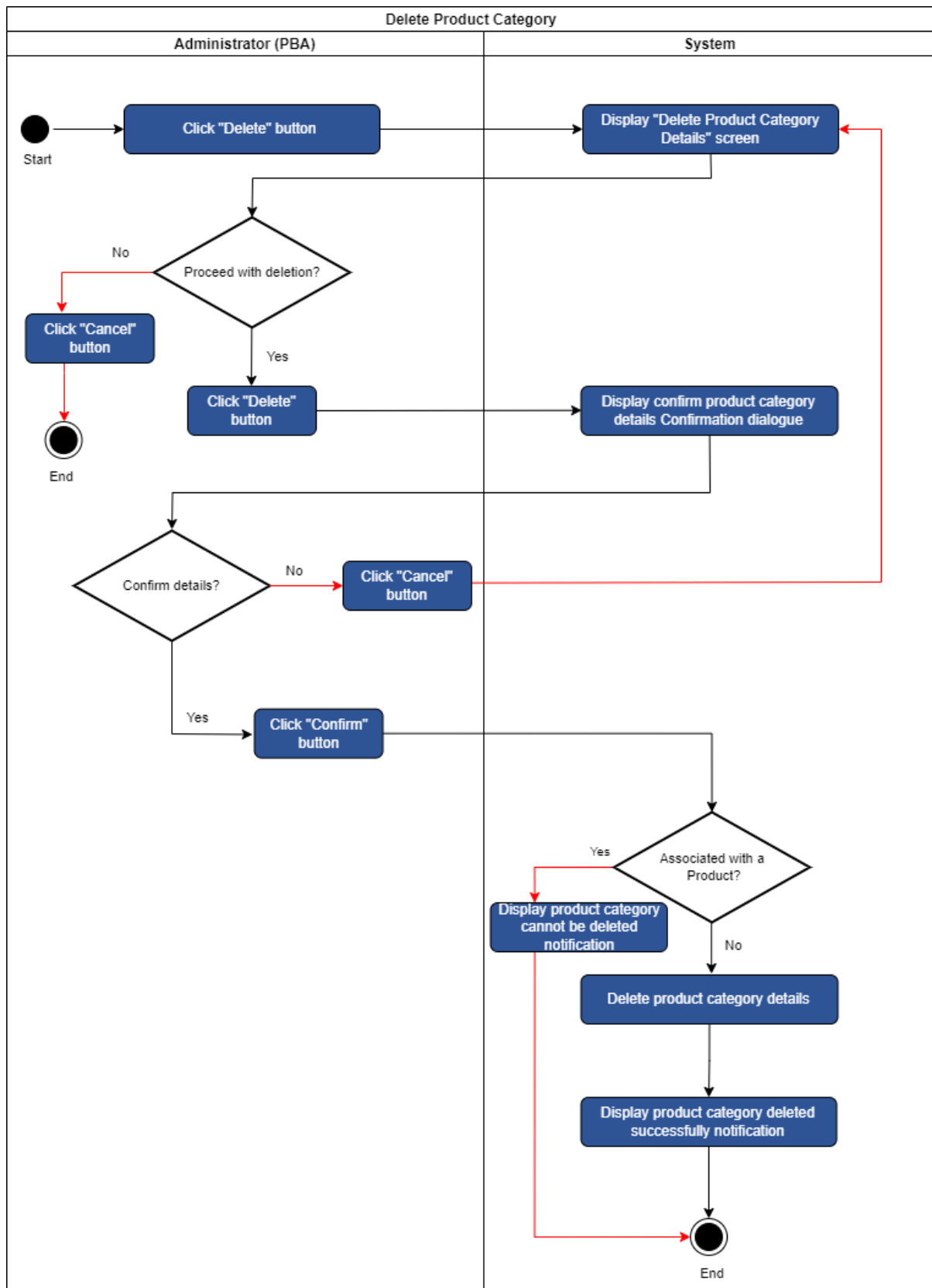


Figure 22 - Delete Product Category use case 4.8

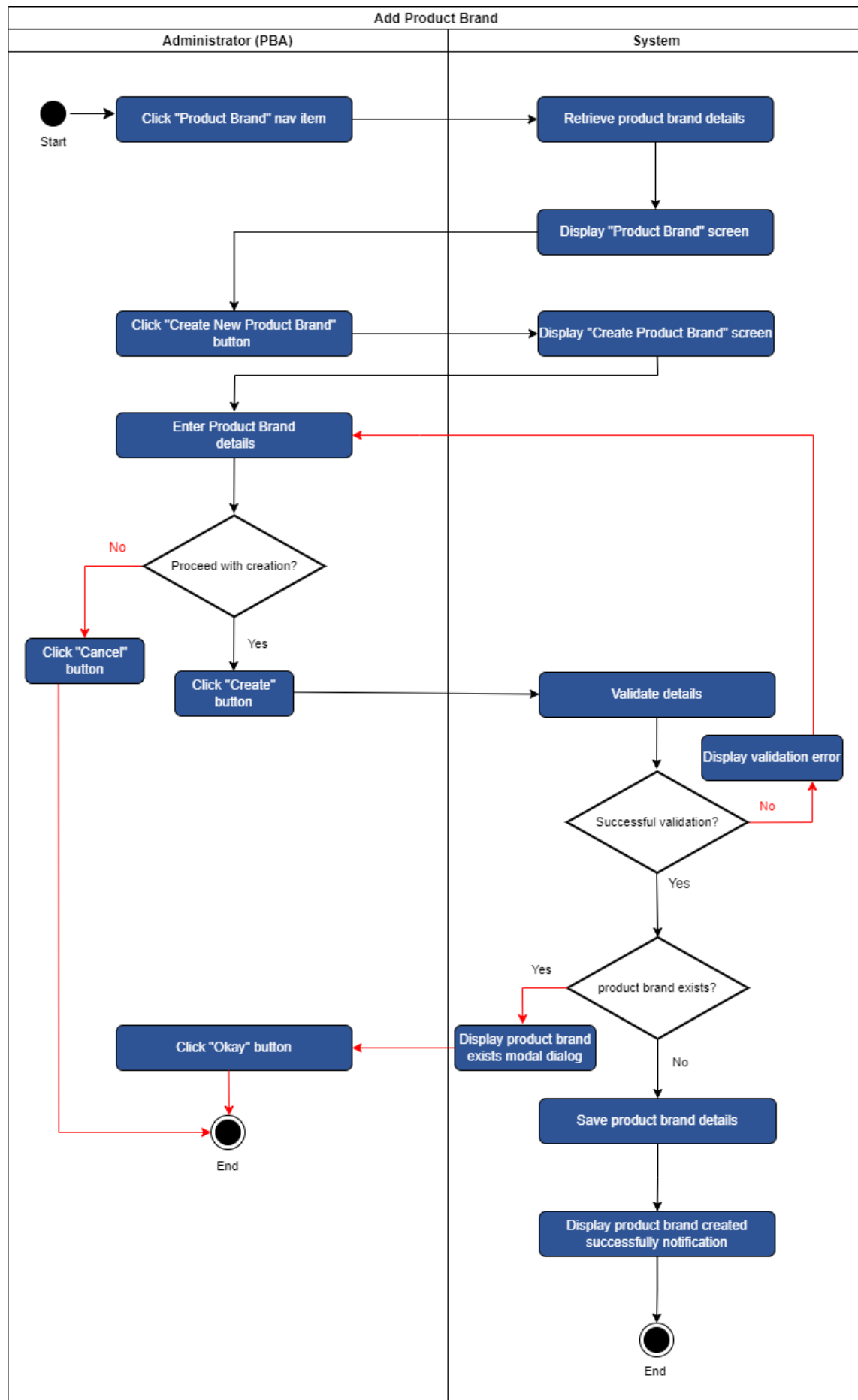


Figure 23 - Add Product Brand use case 4.9

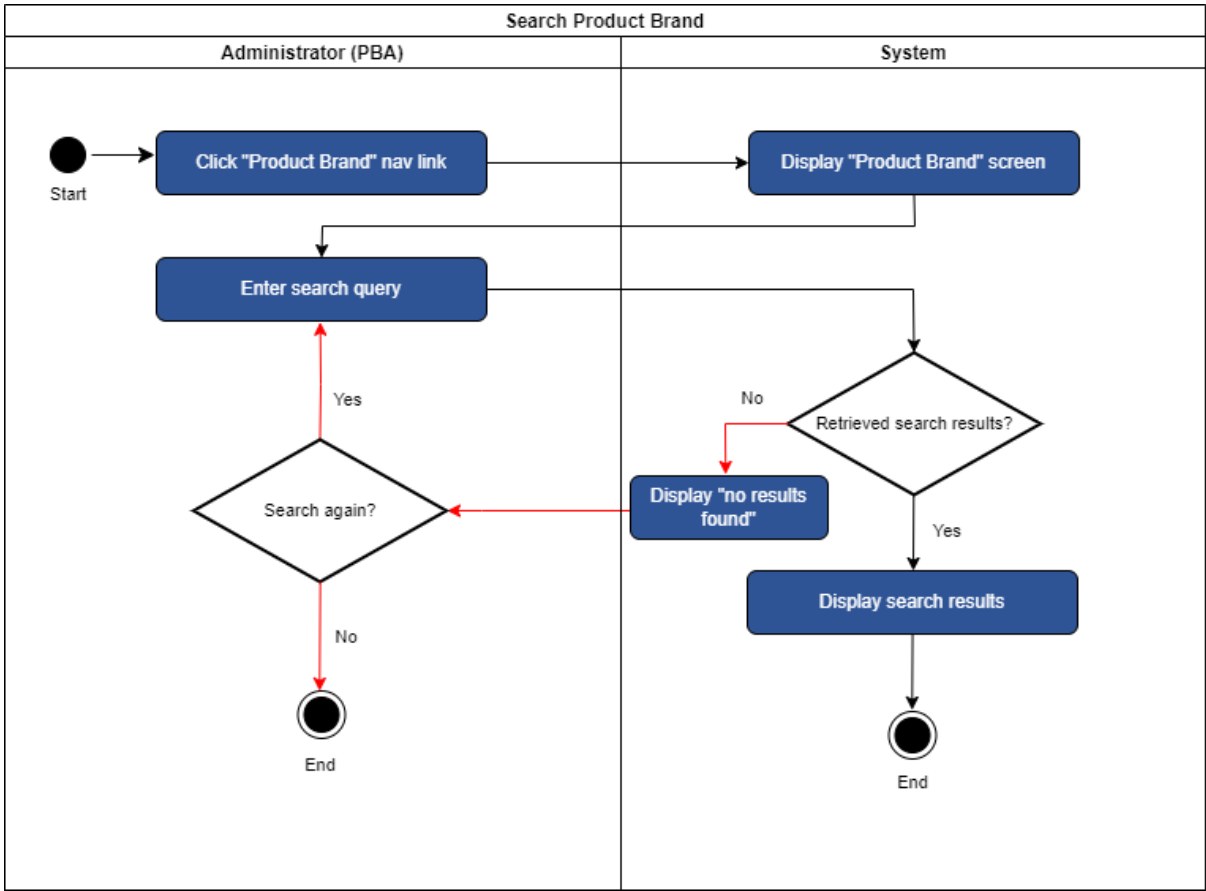


Figure 24 - Search Product Brand use case 4.10

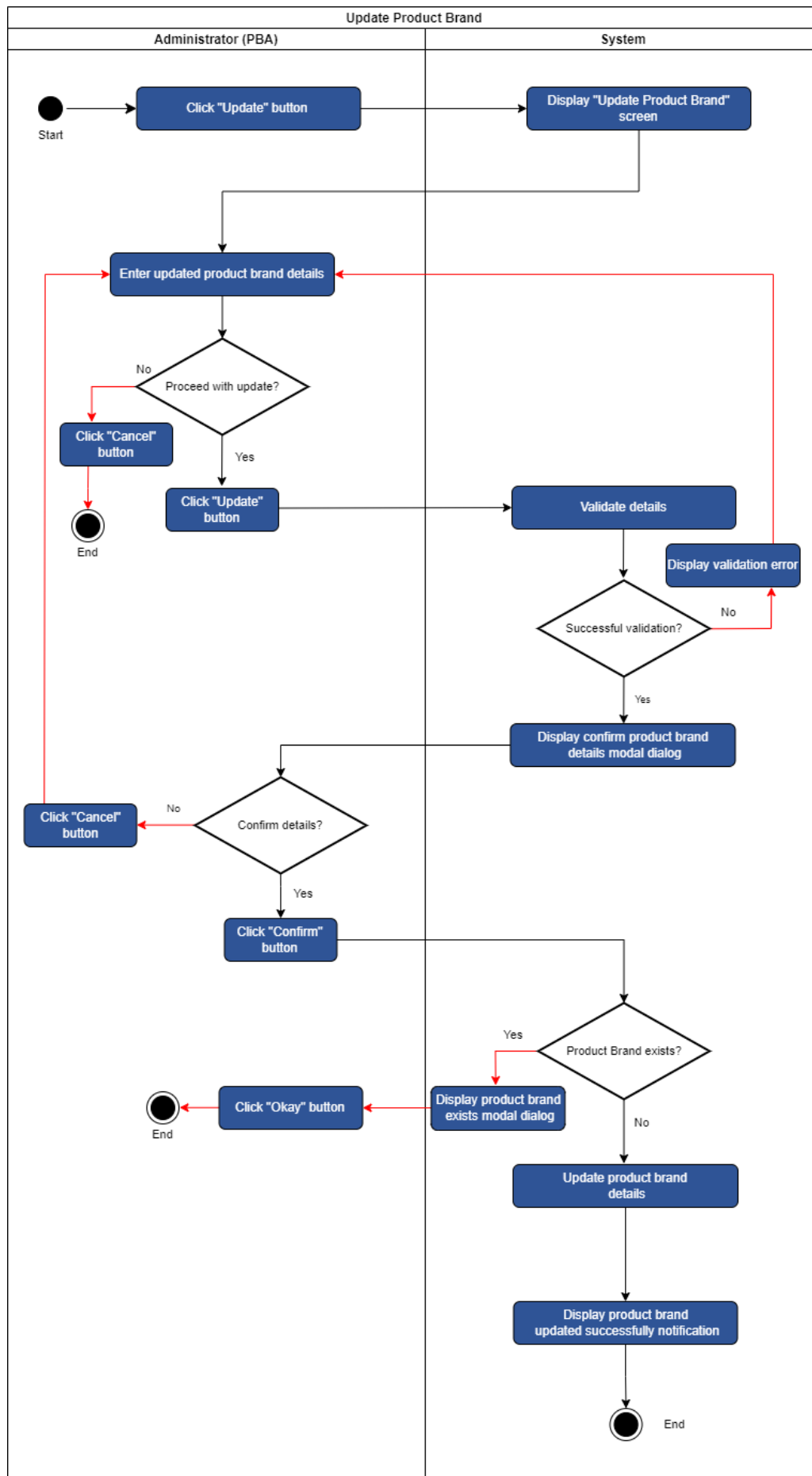


Figure 25 - Update Product Brand use case 4.11

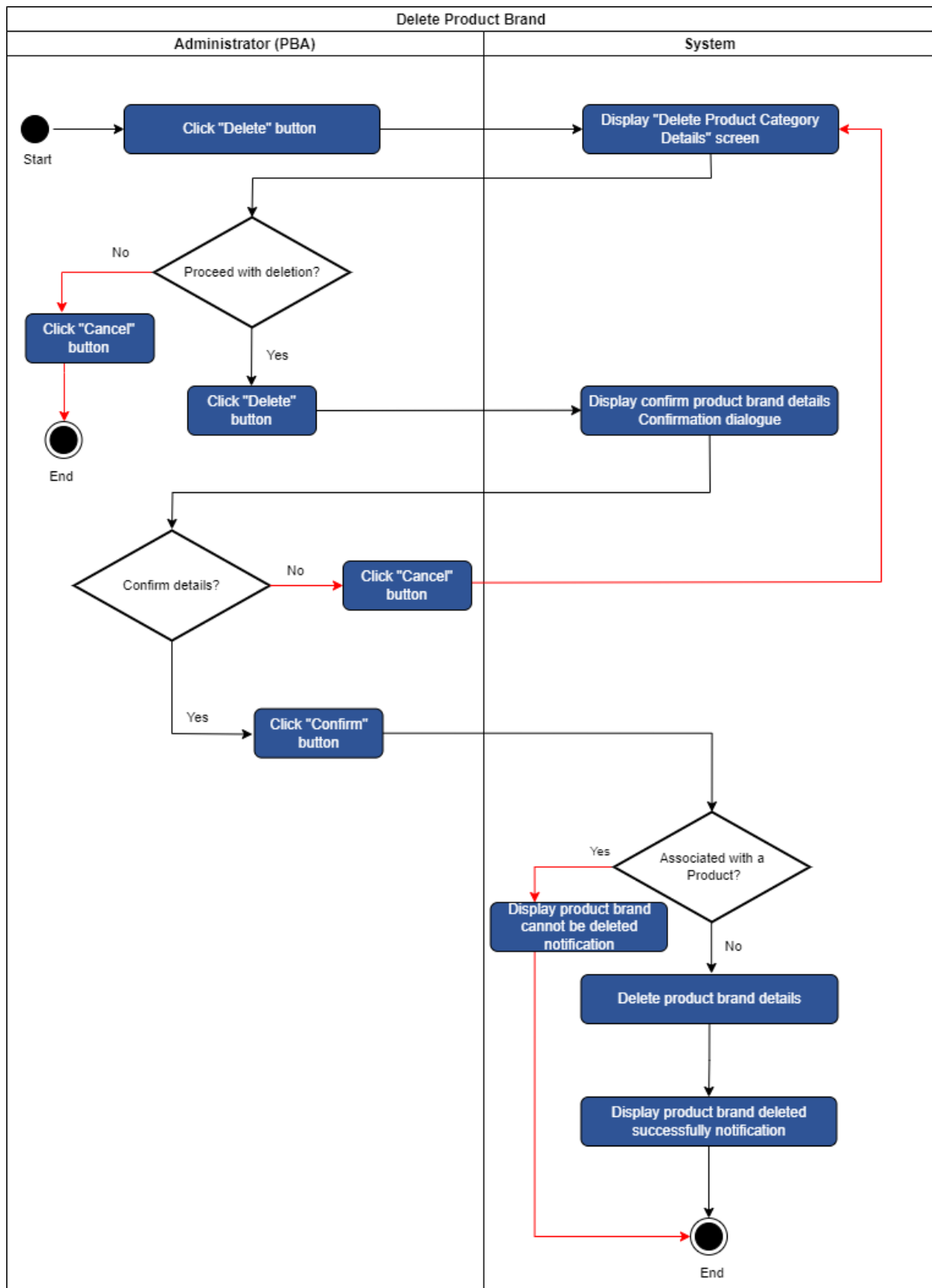


Figure 26 - Delete Product Brand use case 4.12

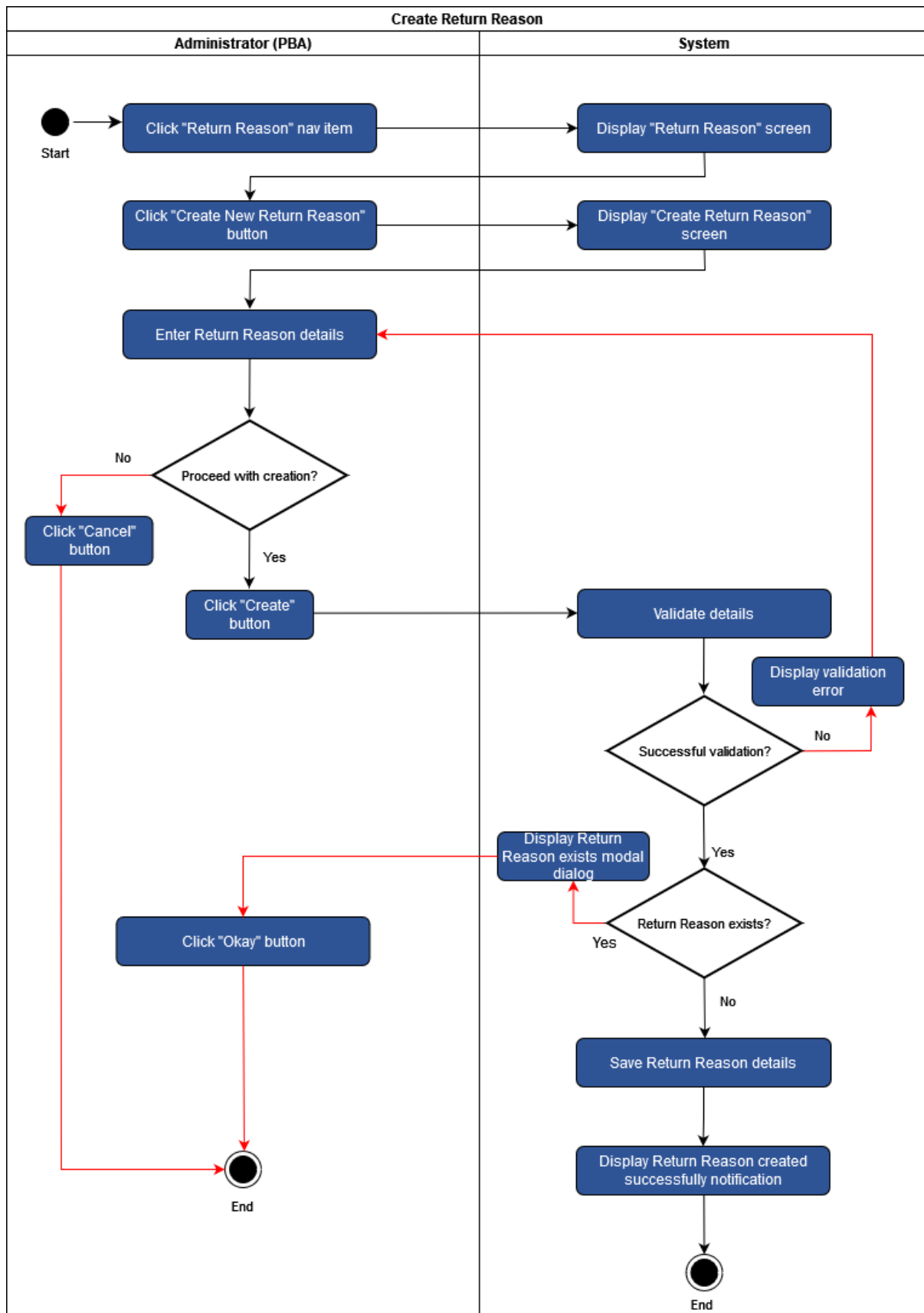


Figure 27 - Create Return Reason use case 4.13

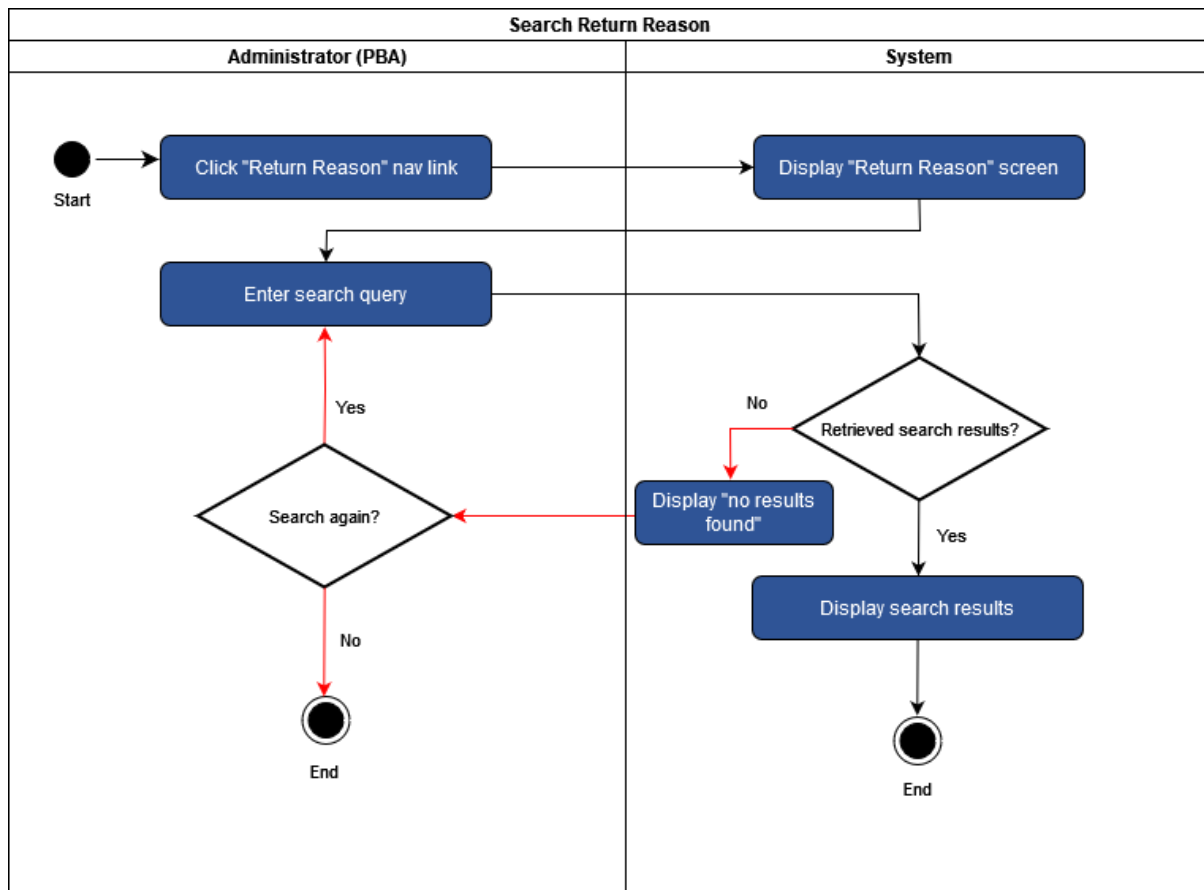


Figure 28 - Search Return Reason use case 4.14

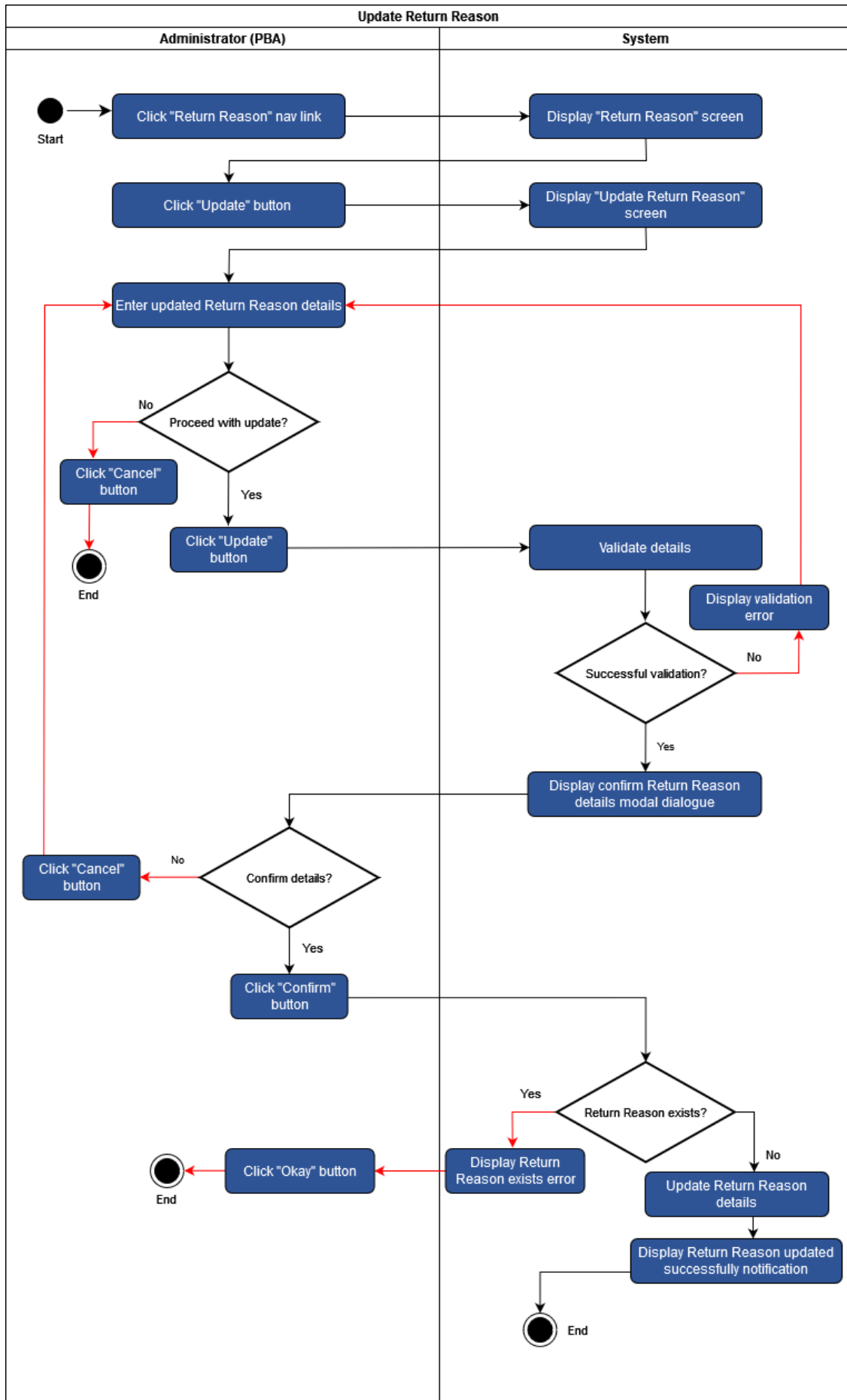


Figure 29 - Update Return Reason use case 4.15

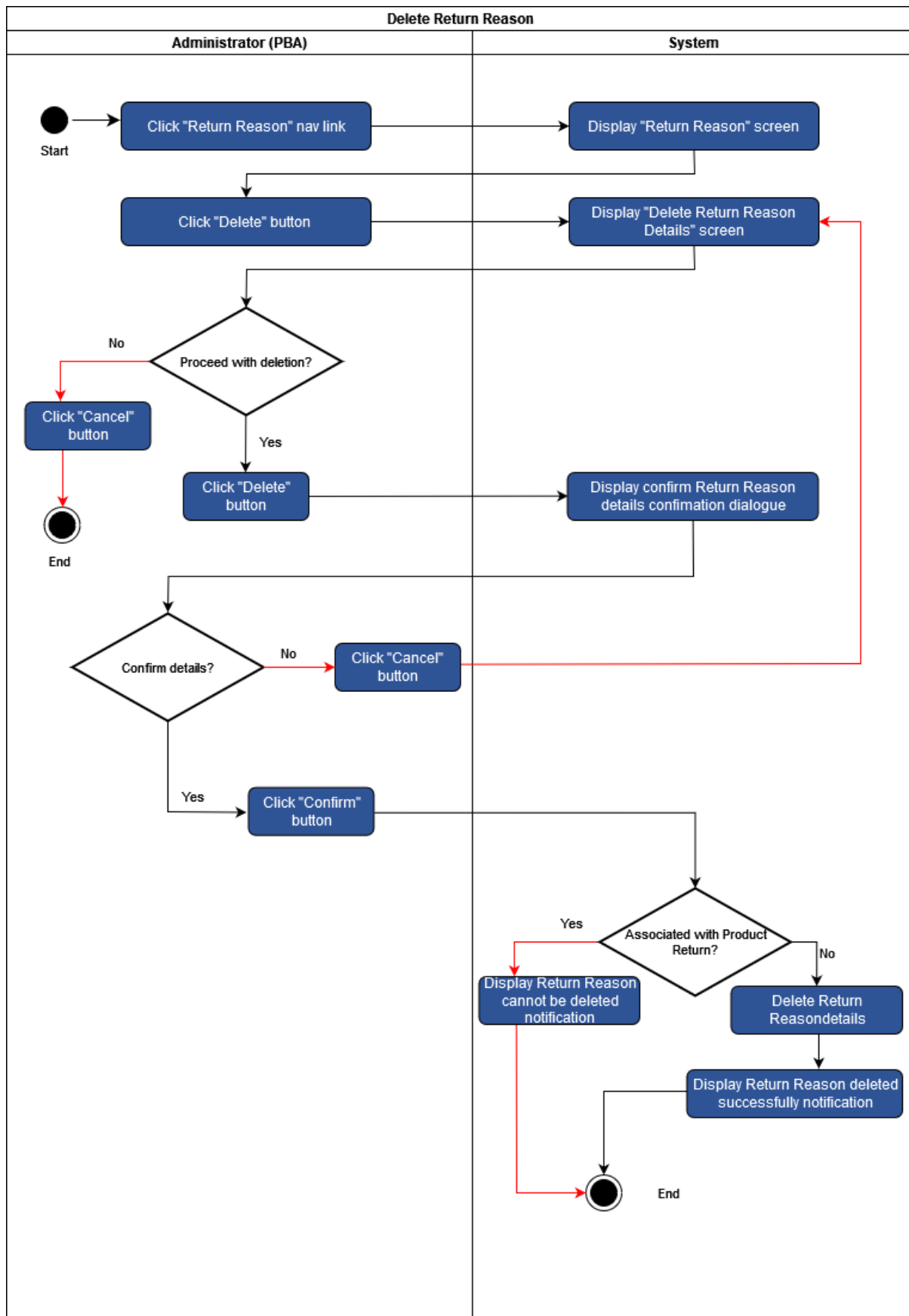


Figure 30 - Delete Return Reason use case 4.16

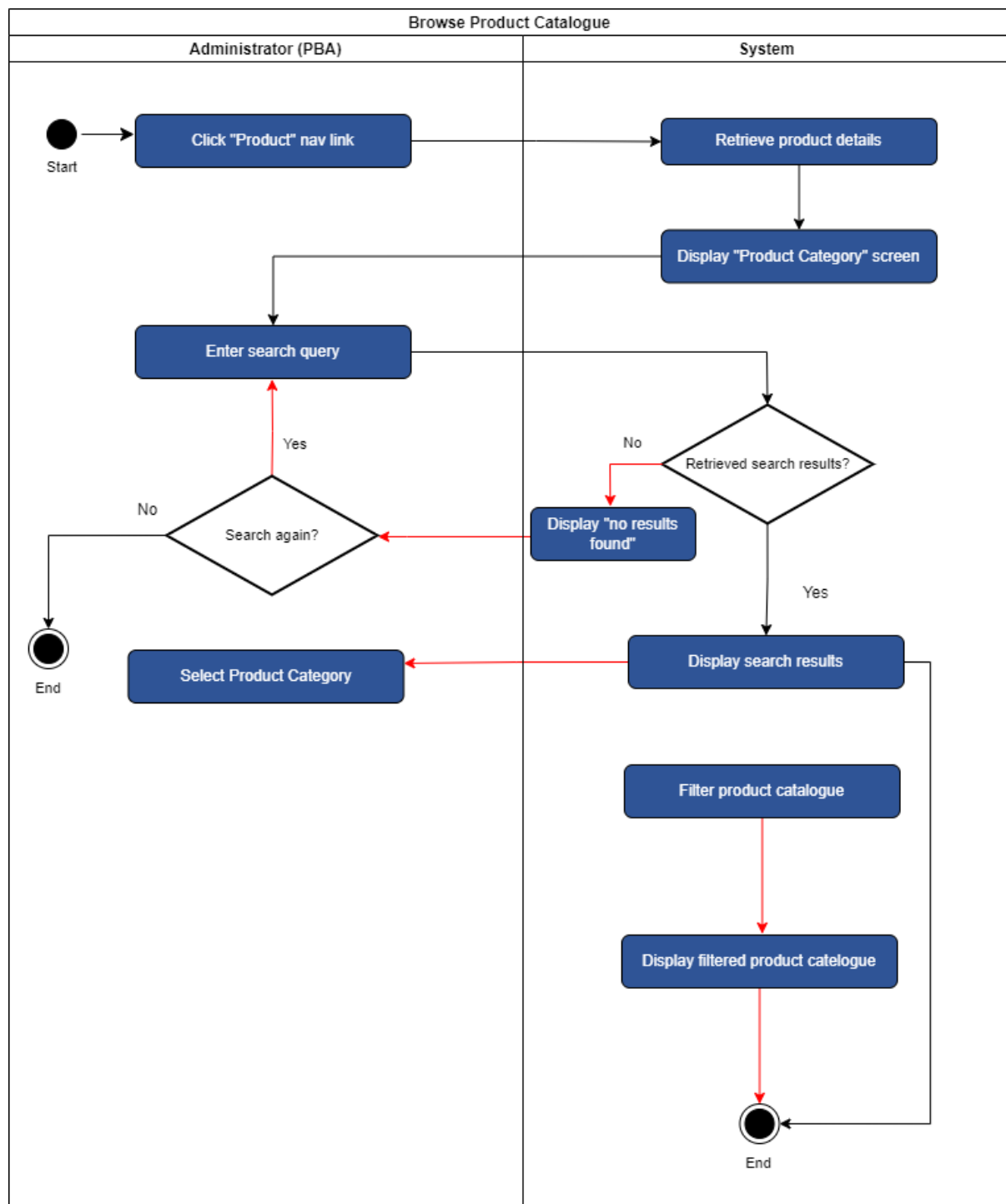


Figure 31 - Browse Product Catalogue use case 4.17

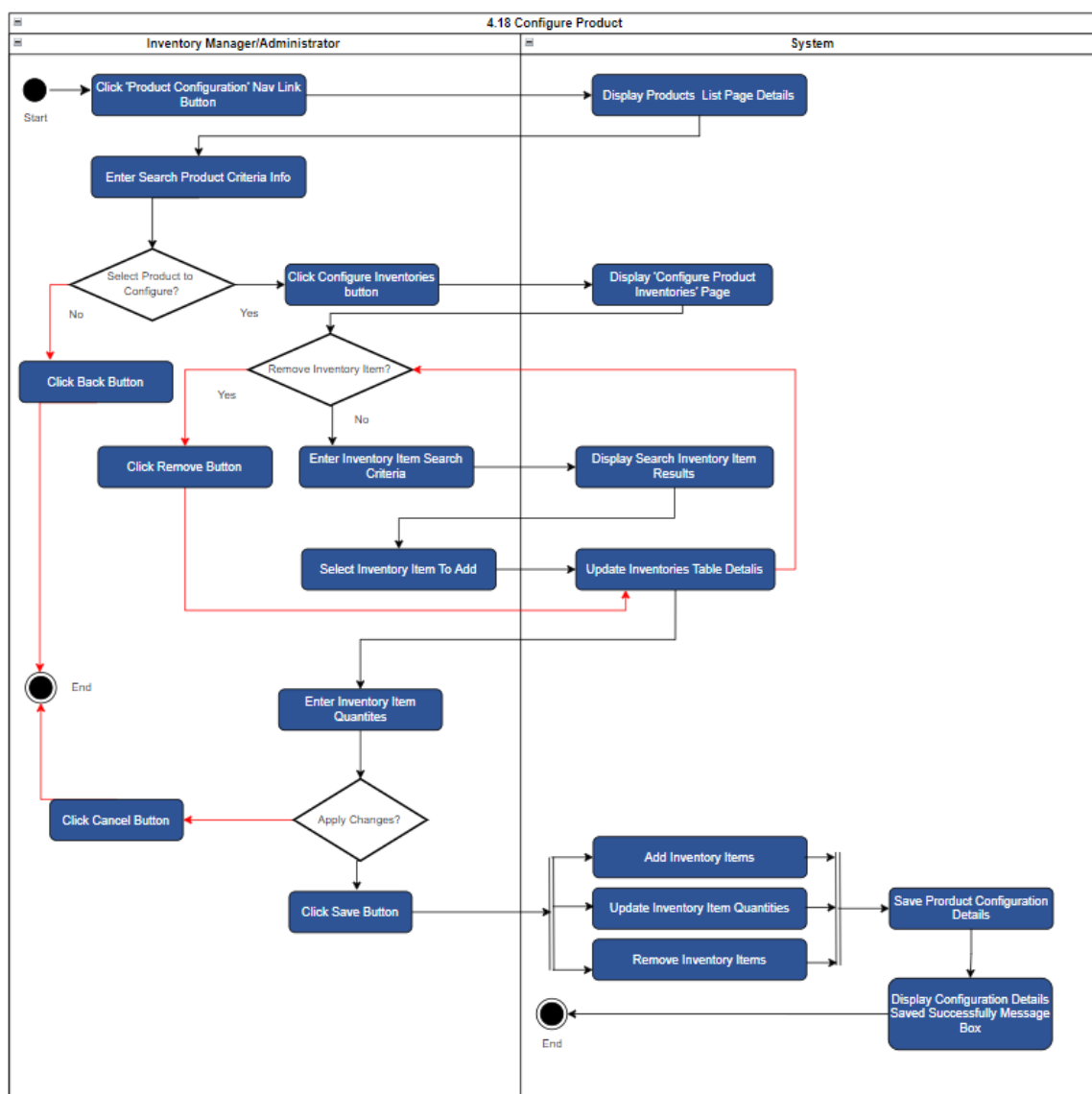


Figure 32 - Configure Product use case 4.18

2.5. Order Subsystem

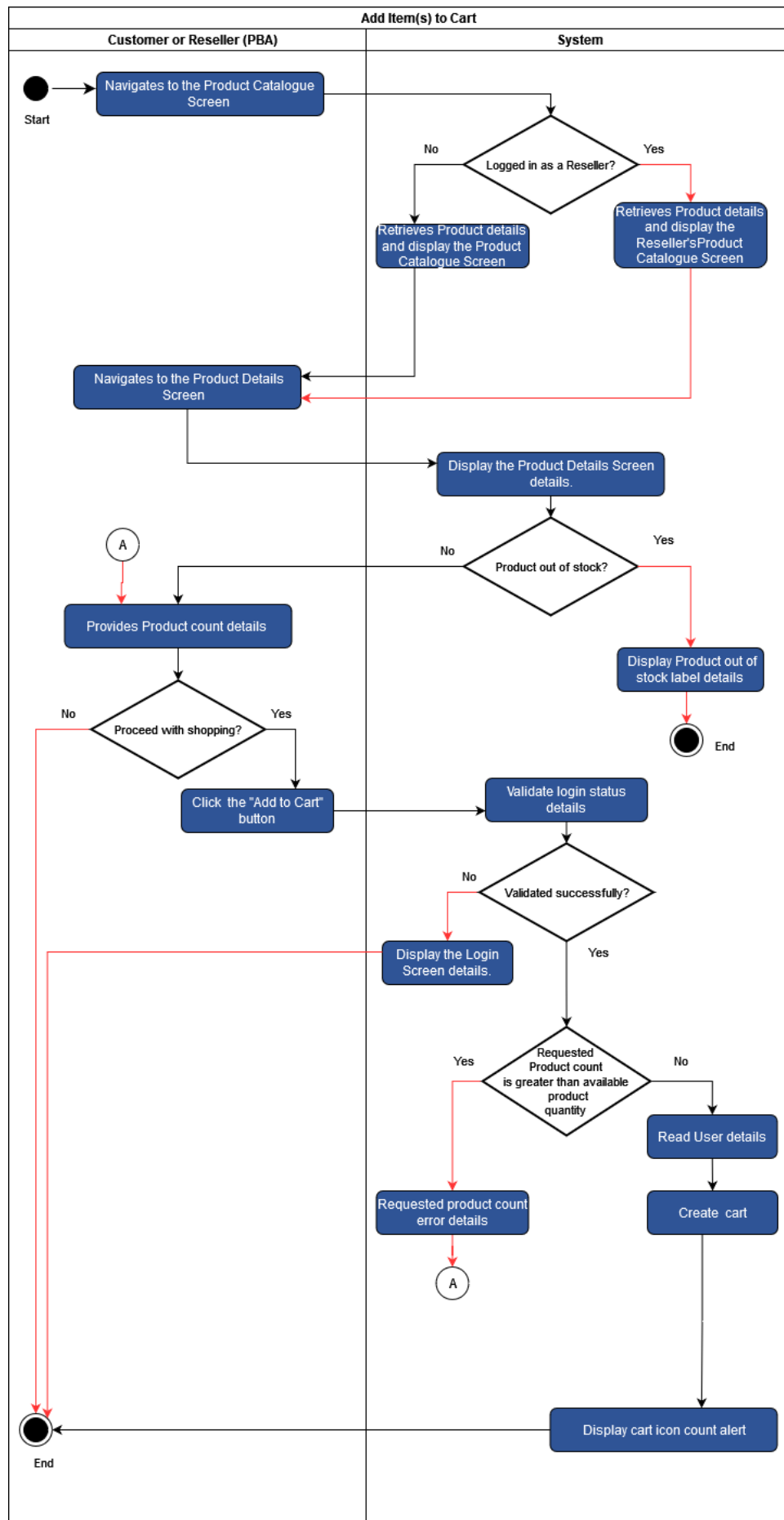


Figure 33 – Add Item(s) to Cart use case 5.1

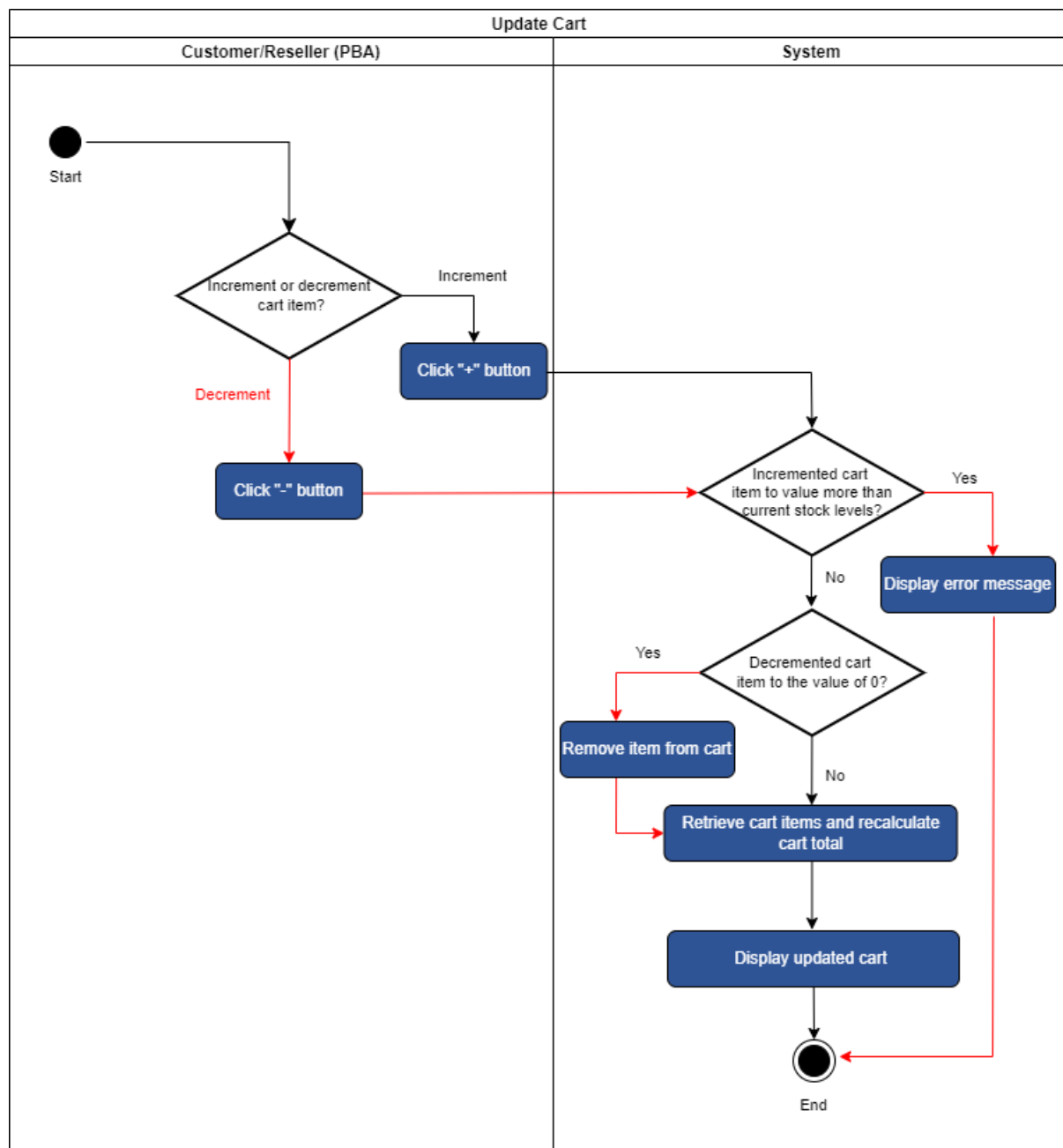


Figure 34 – Update Cart use case 5.2

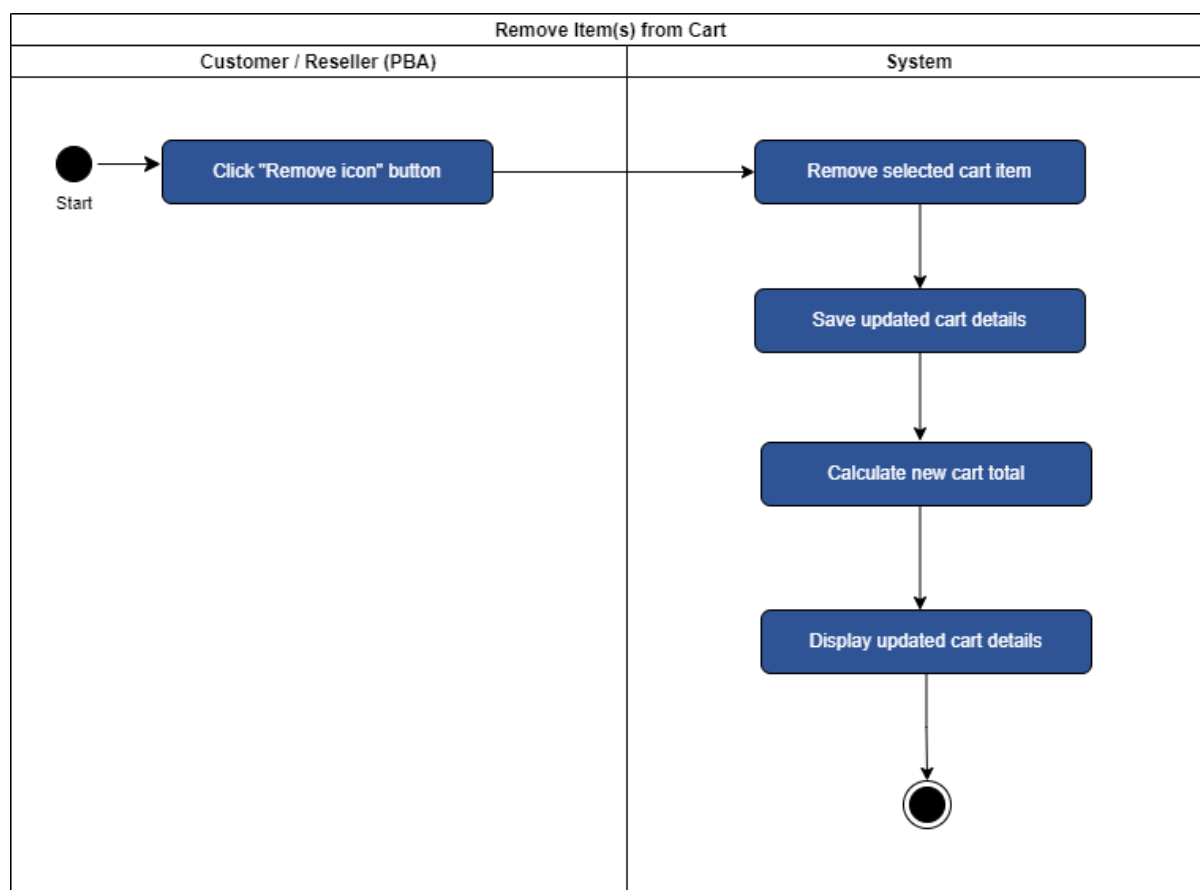


Figure 35 – Remove Item(s) from Cart use case 5.3

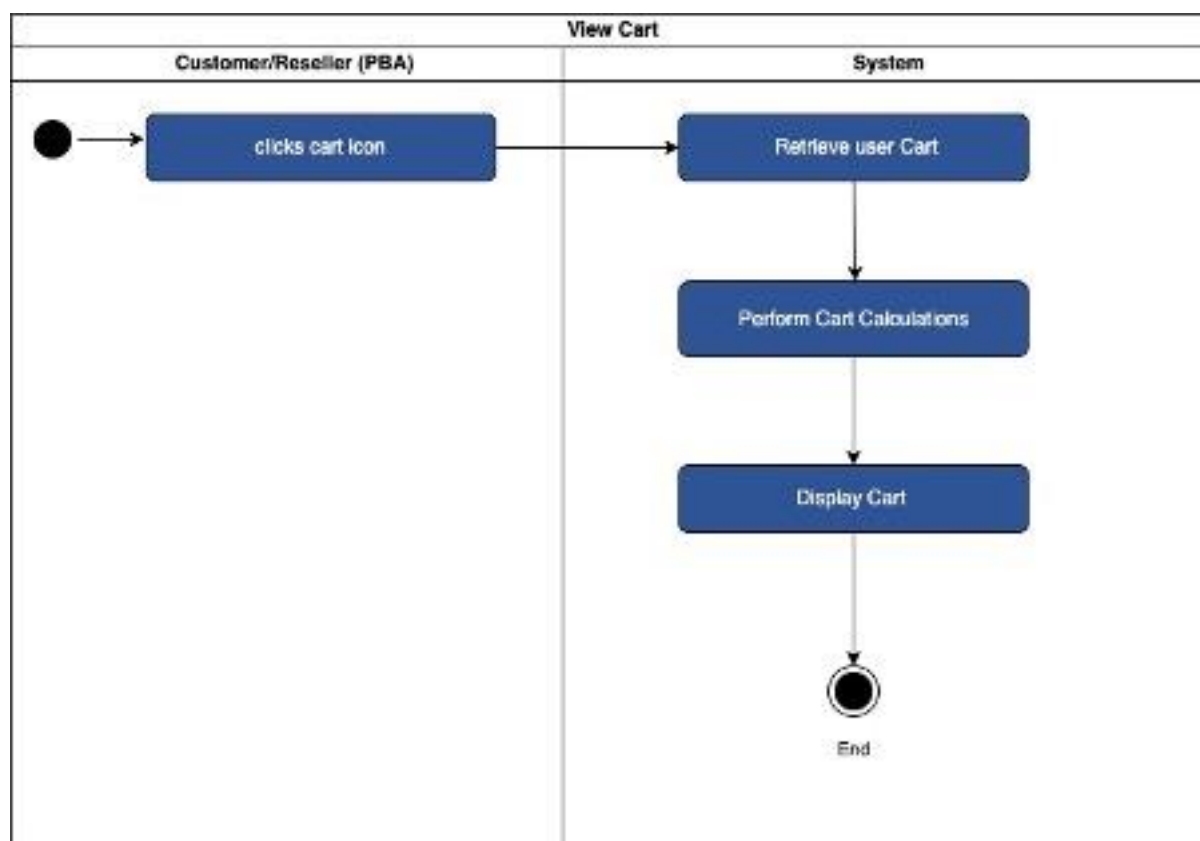


Figure 36 – View Cart use case 5.4

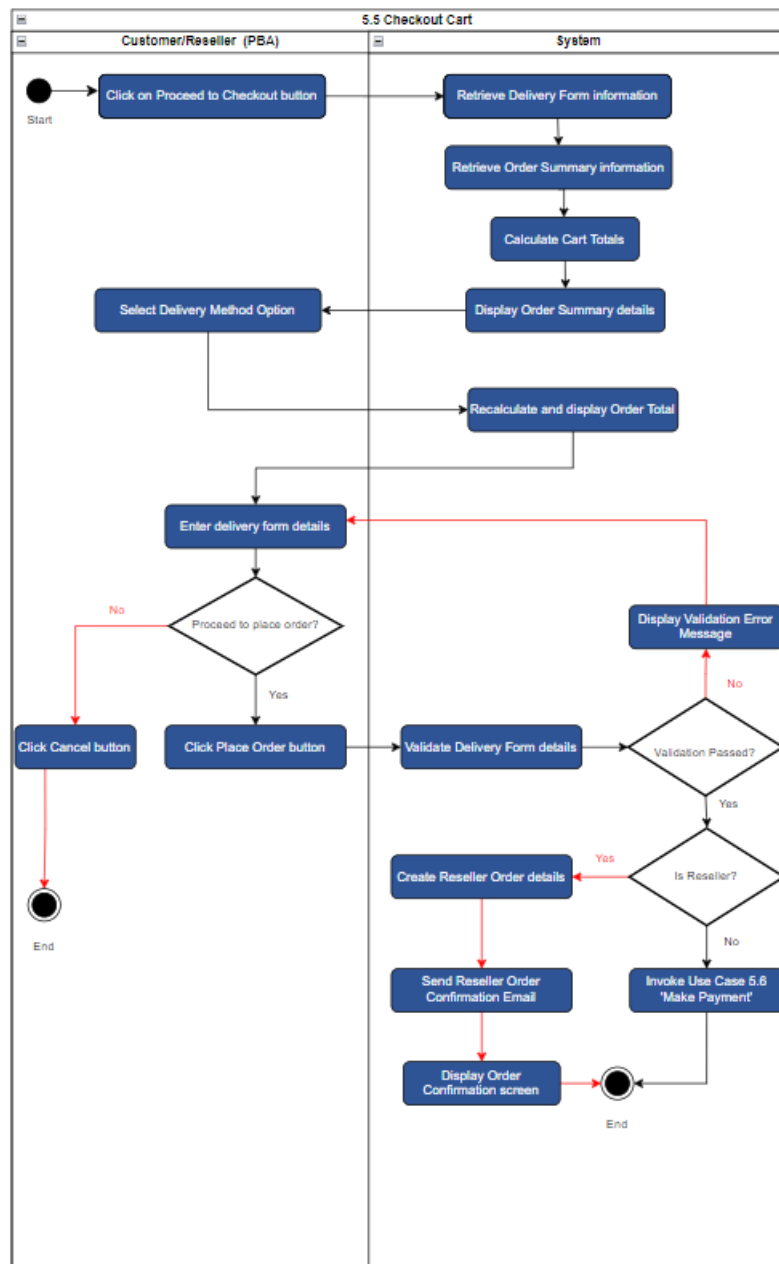


Figure 37 – Checkout Cart use case 5.5

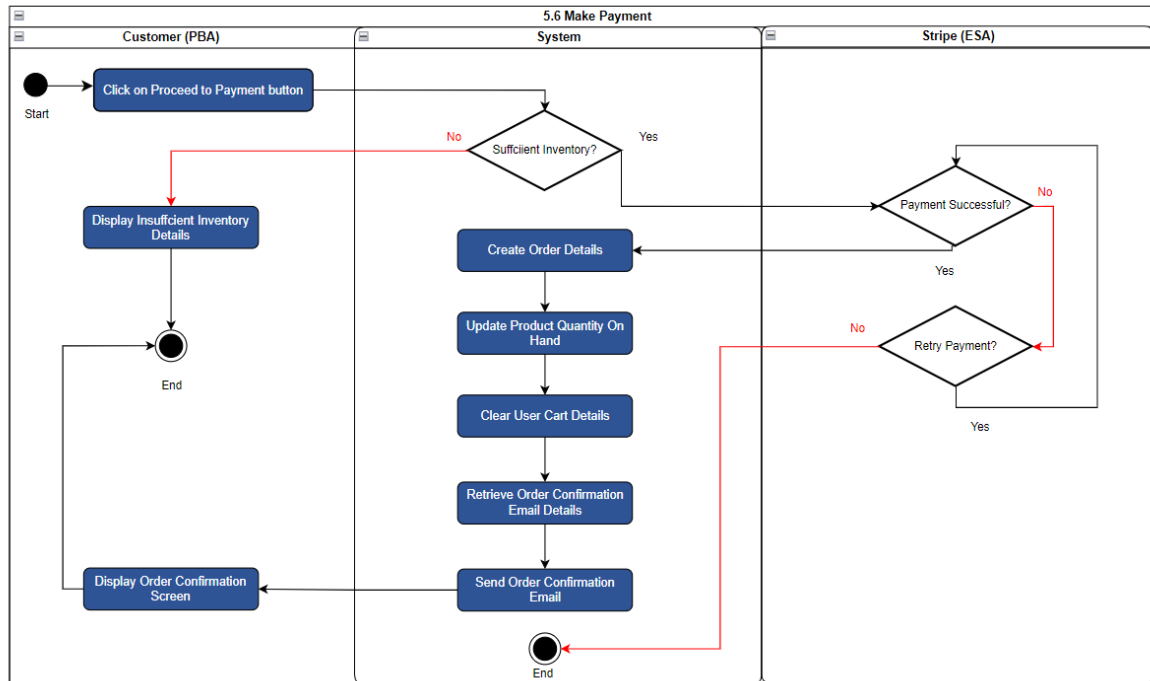


Figure 38 – Make Payment use case 5.6

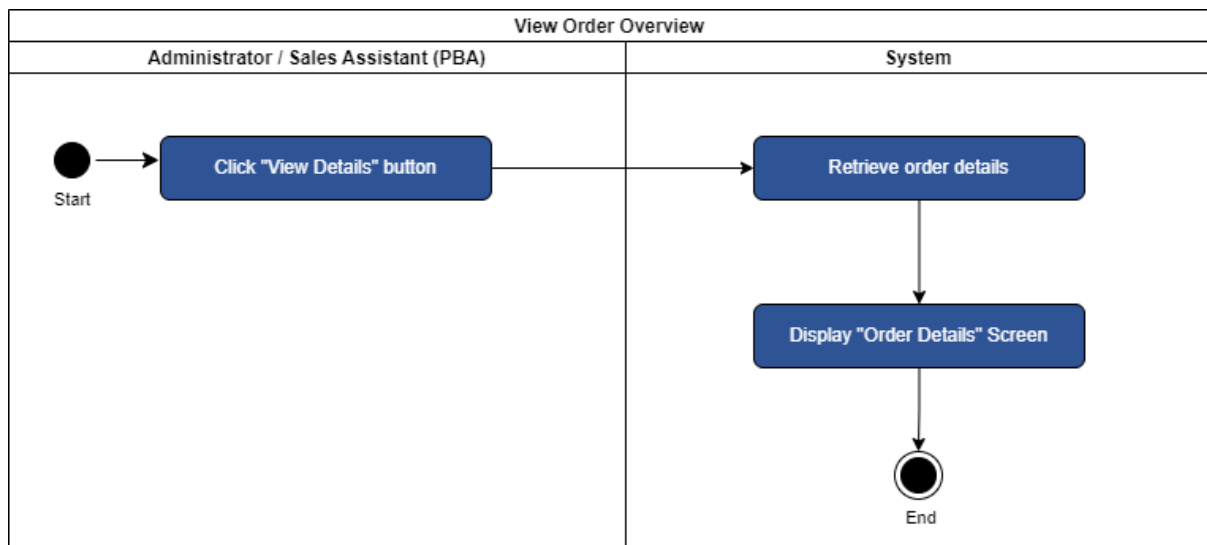


Figure 39 – View Orders Overview use case 5.7

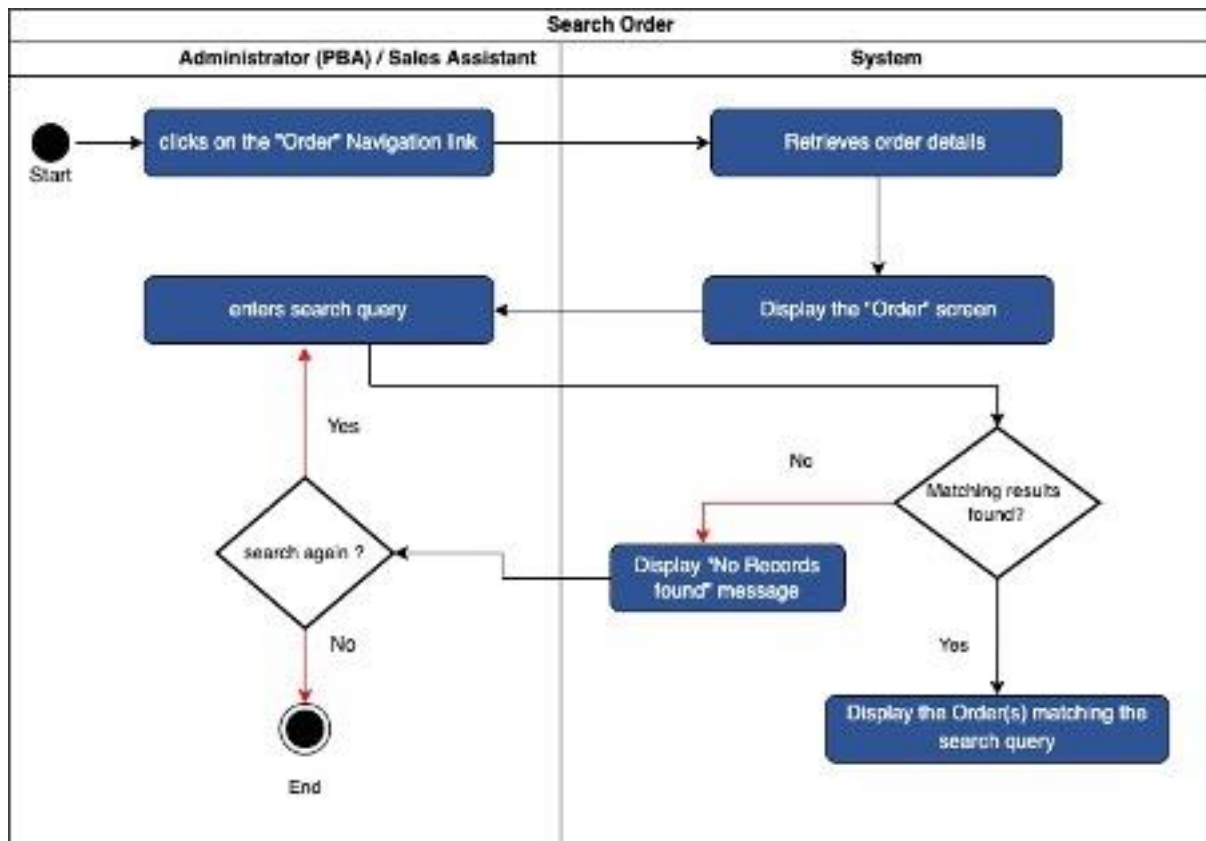


Figure 40– Search Order use case 5.8

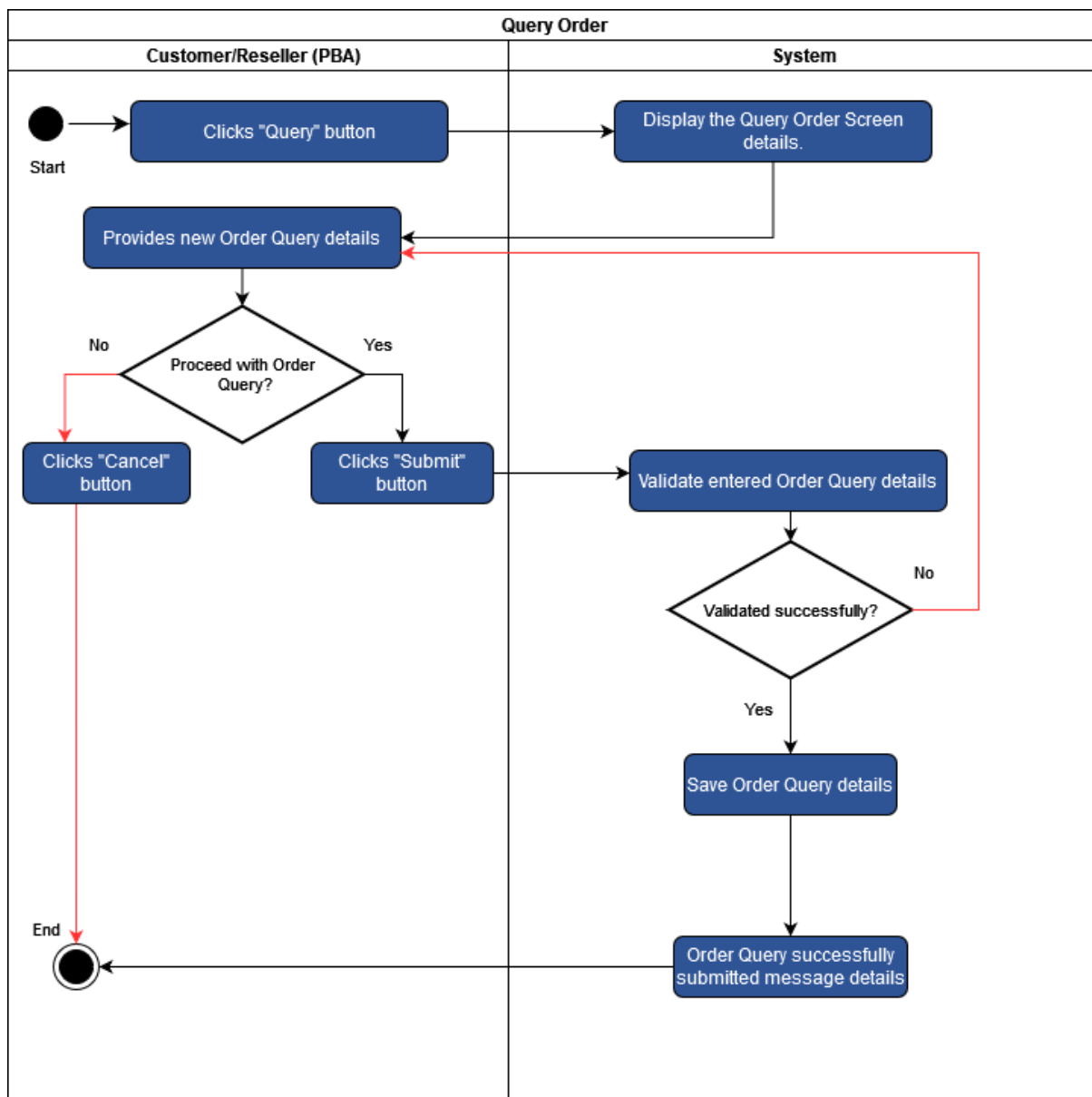


Figure 41 – Query Order use case 5.9

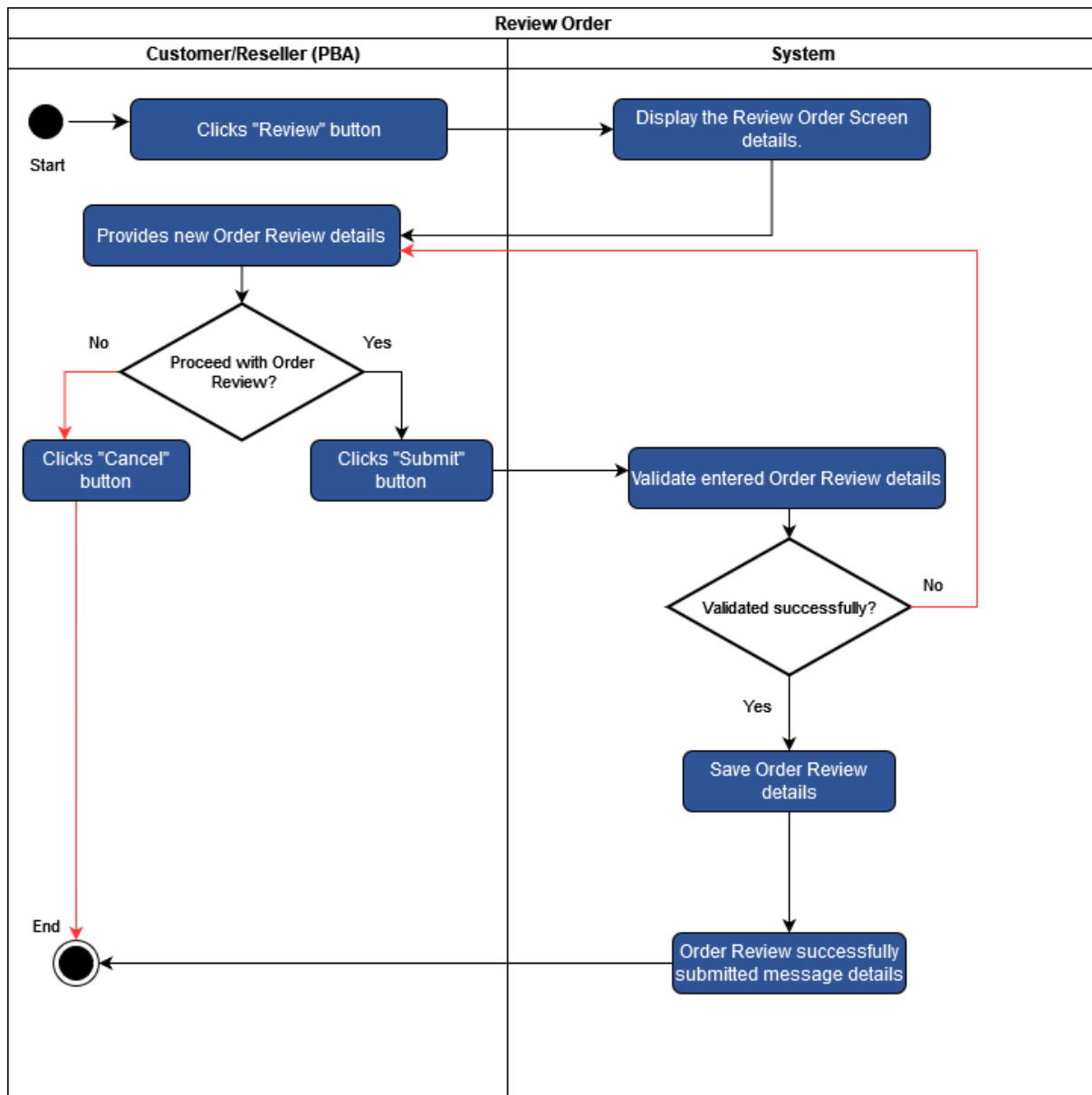


Figure 42 – Review Order use case 5.10

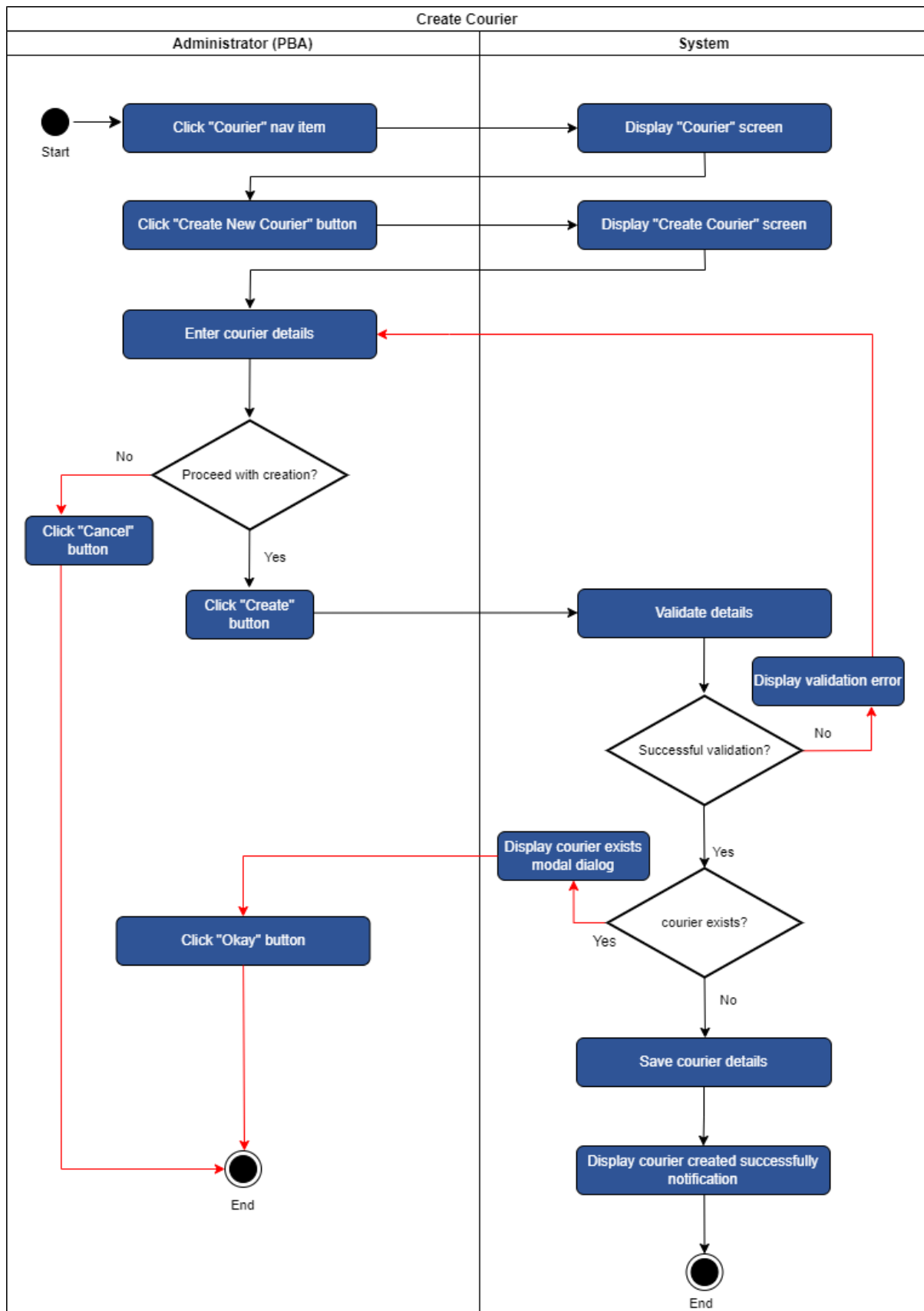


Figure 43 – Create Courier use case 5.11

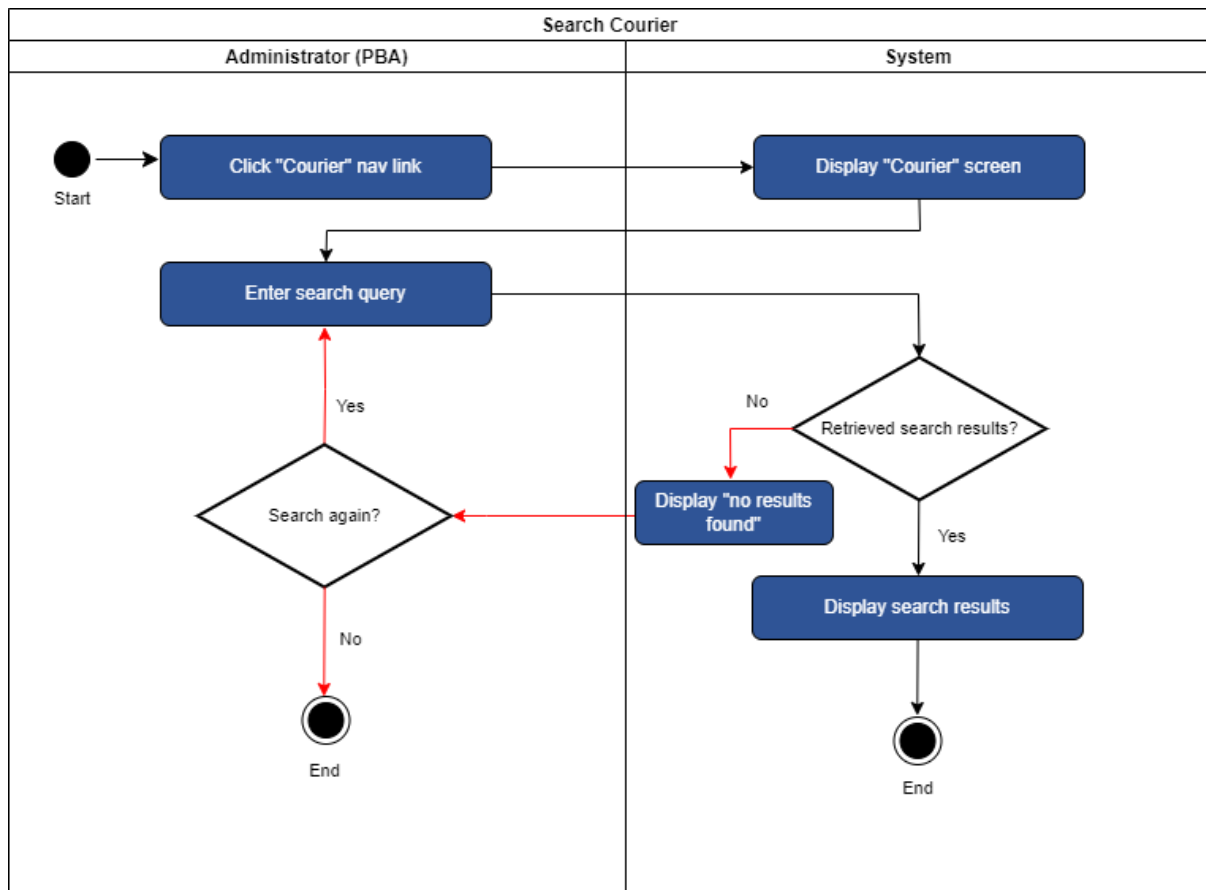


Figure 44 –Search Courier use case 5.12

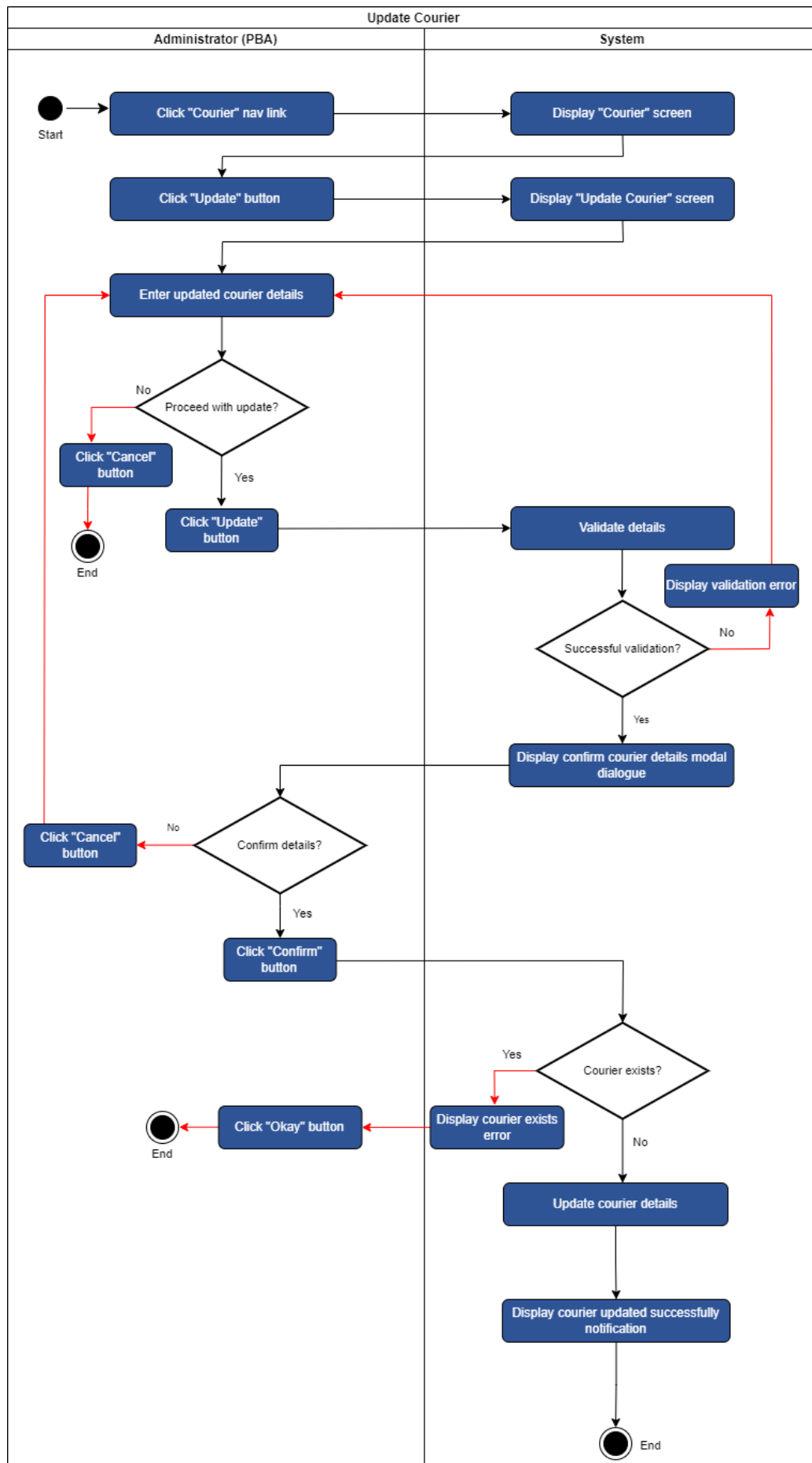


Figure 45 – Update Courier use case 5.13

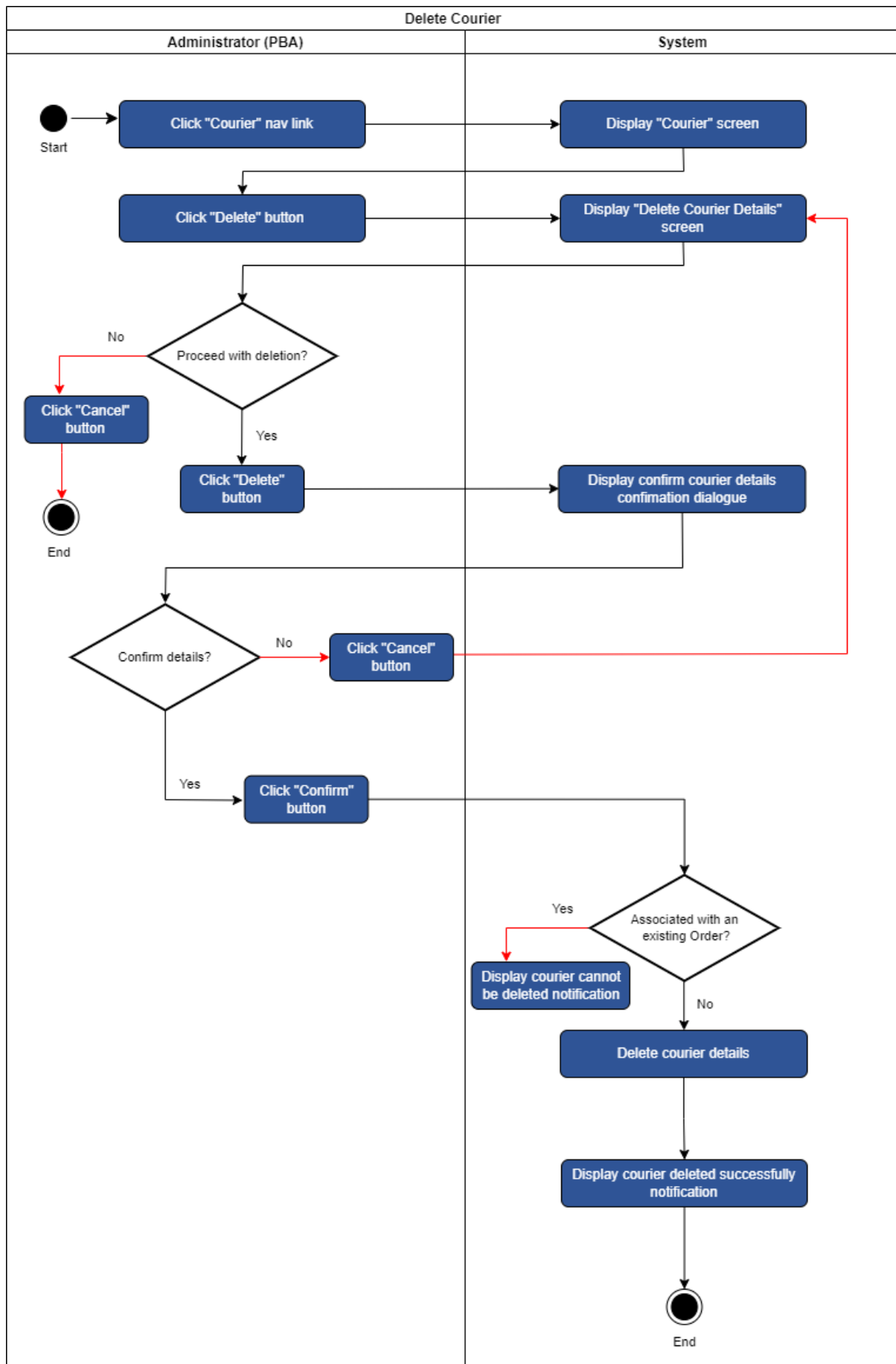


Figure 46 – Delete Courier use case 5.14

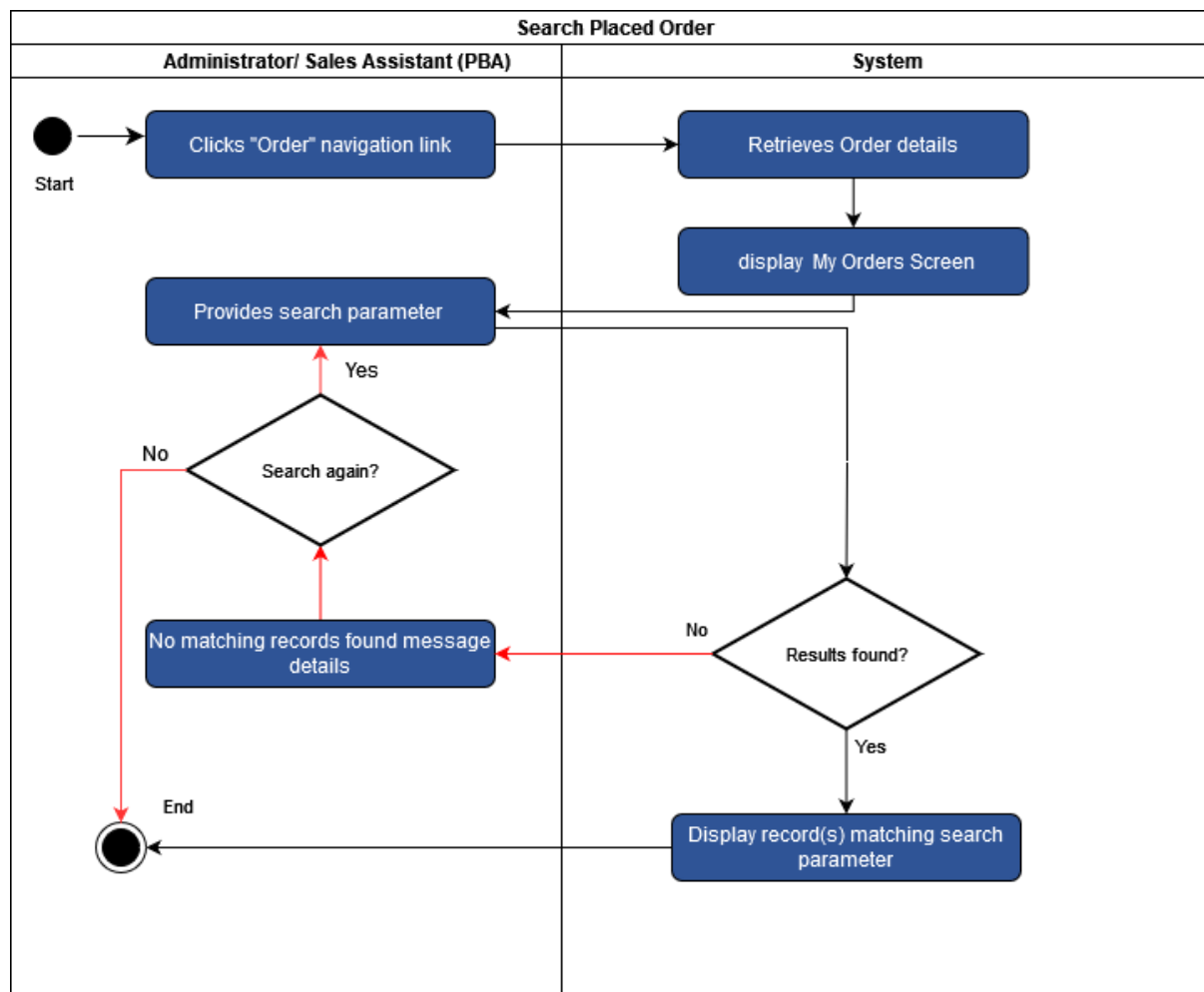


Figure 47 – Search Placed Order use case 5.15

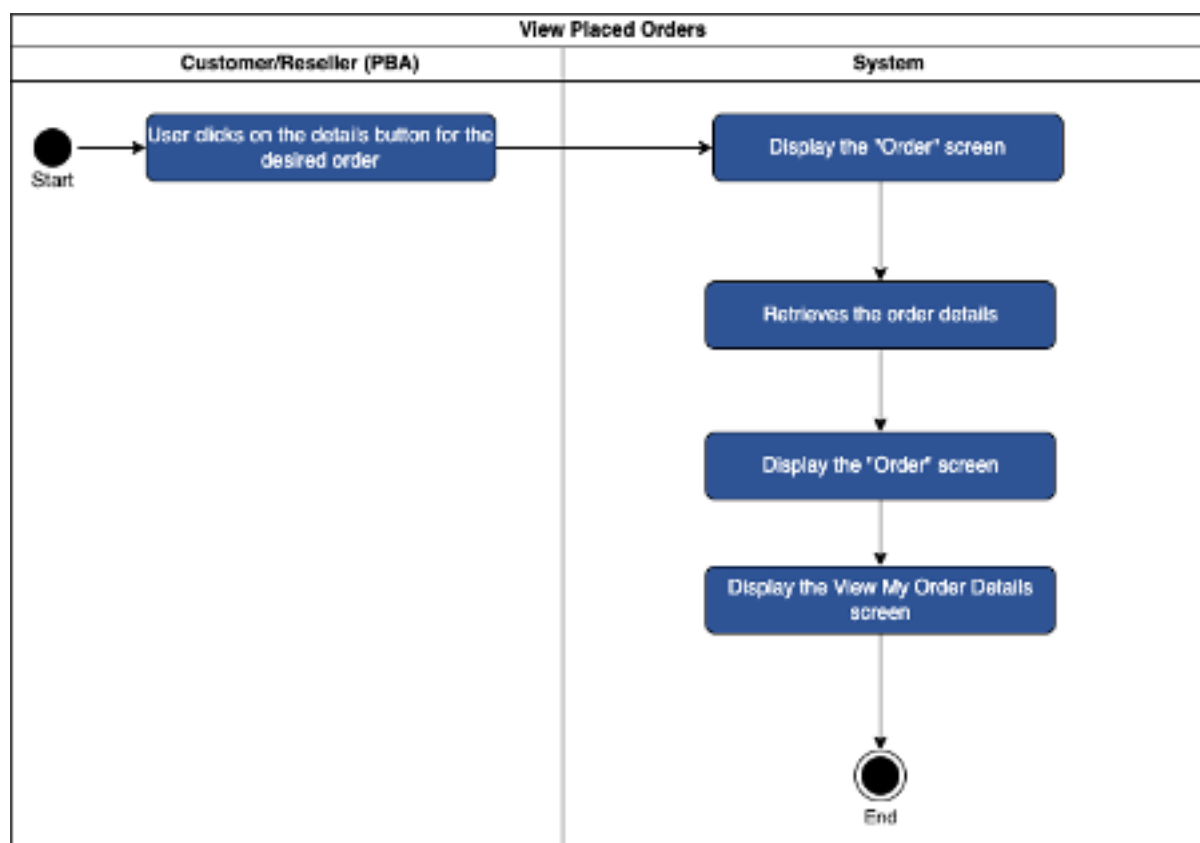


Figure 48 – View Placed Order use case 5.16

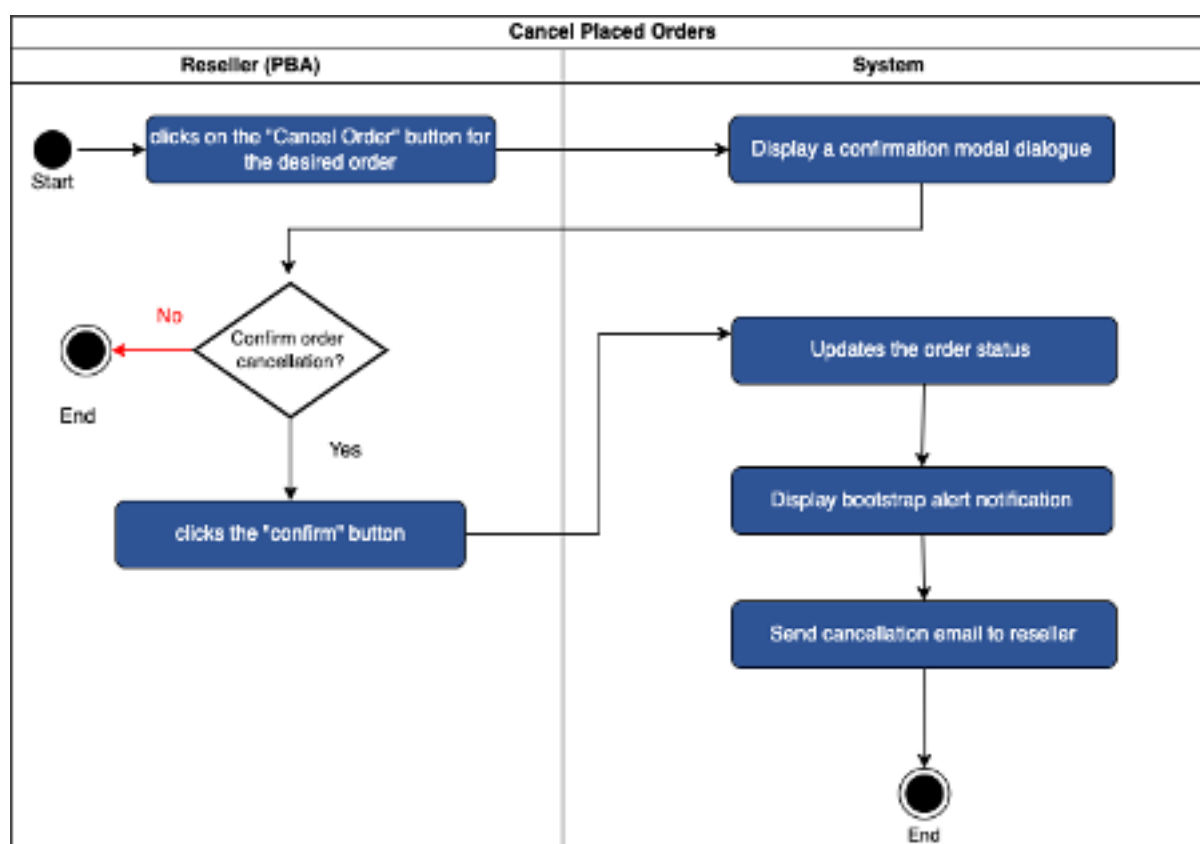


Figure 49 – Cancel Placed Order use case 5.17

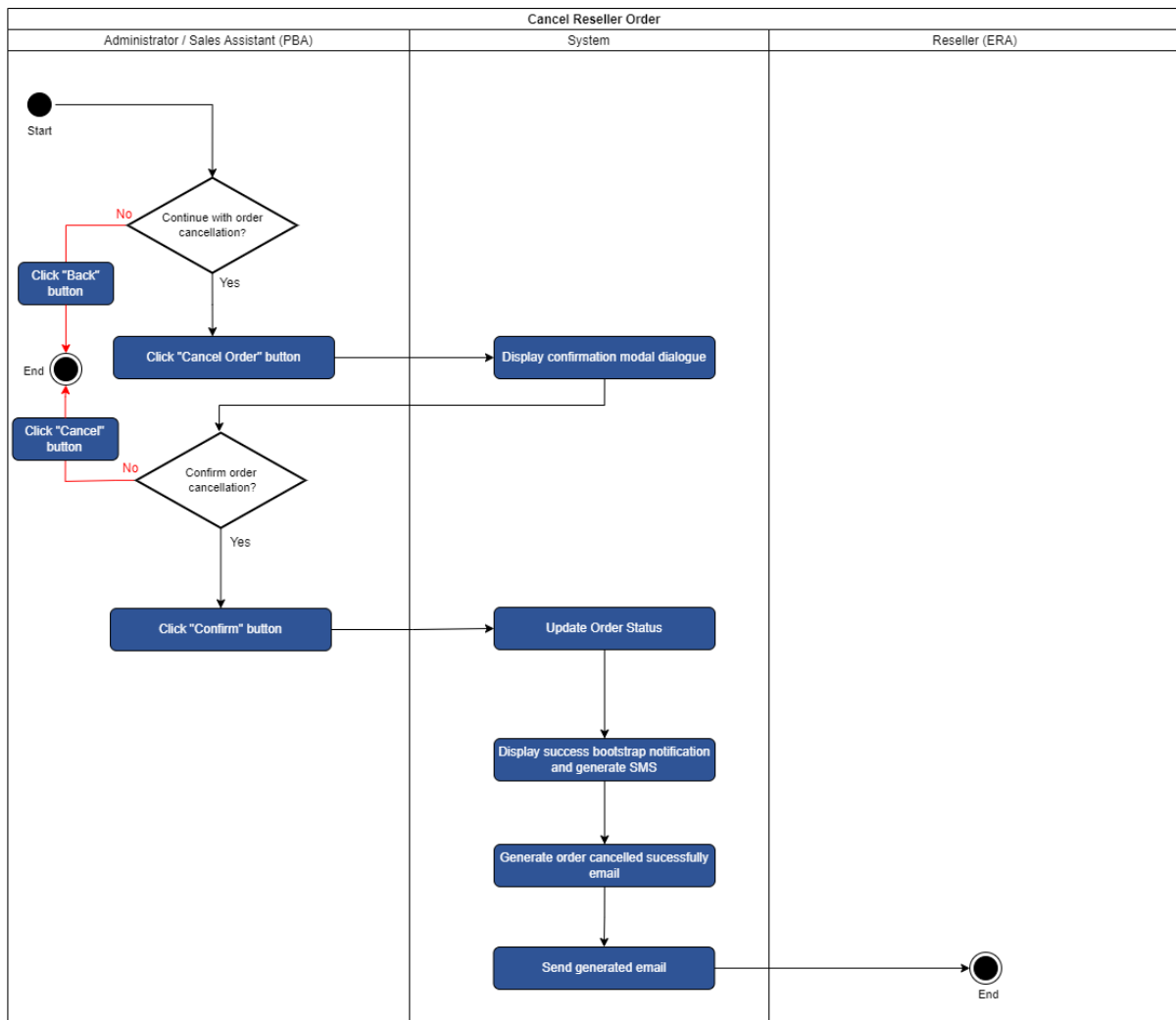


Figure 50 – Cancel Reseller Order use case 5.18

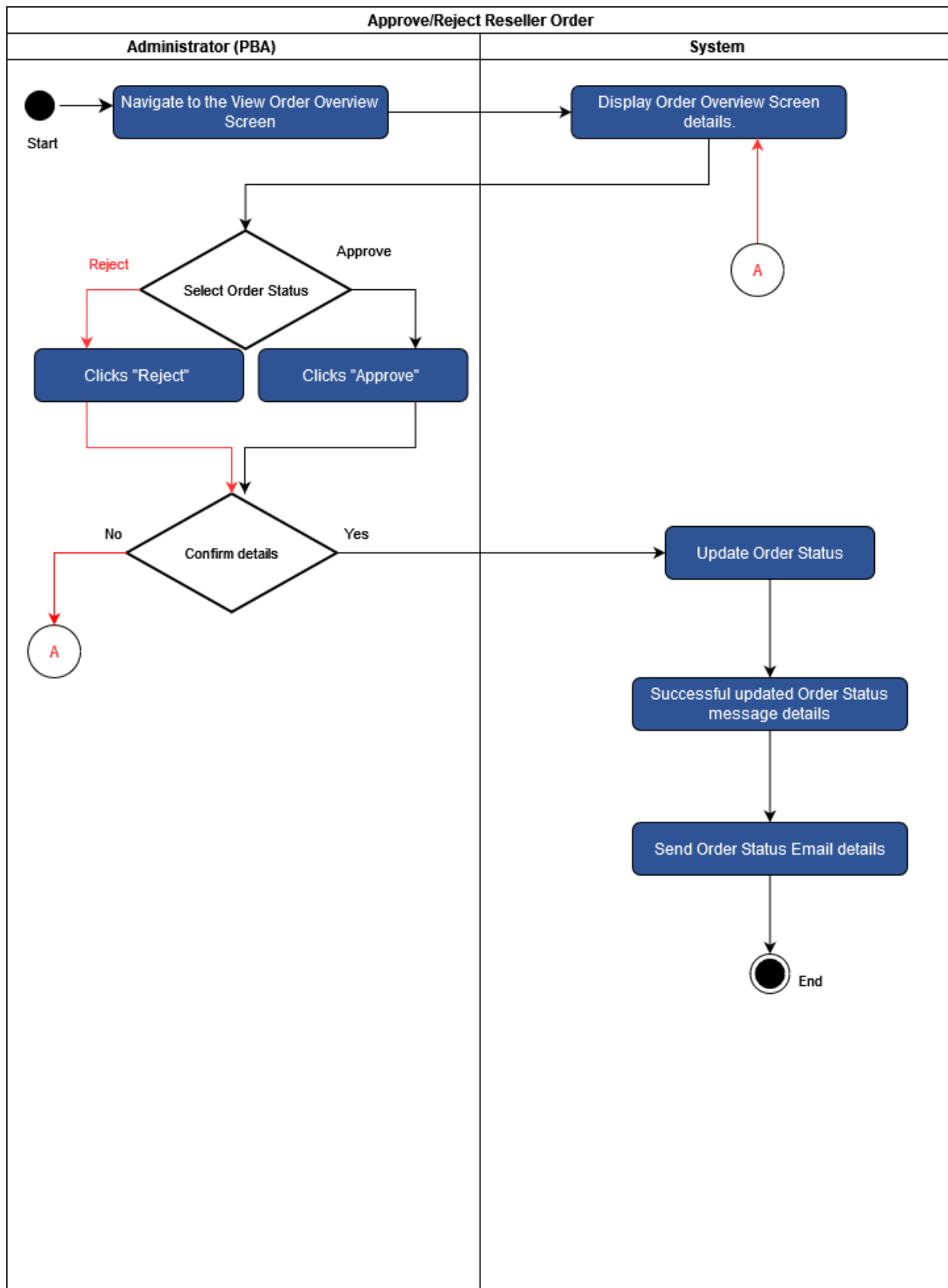


Figure 51 – Approve/Reject Reseller Order use case 5.19

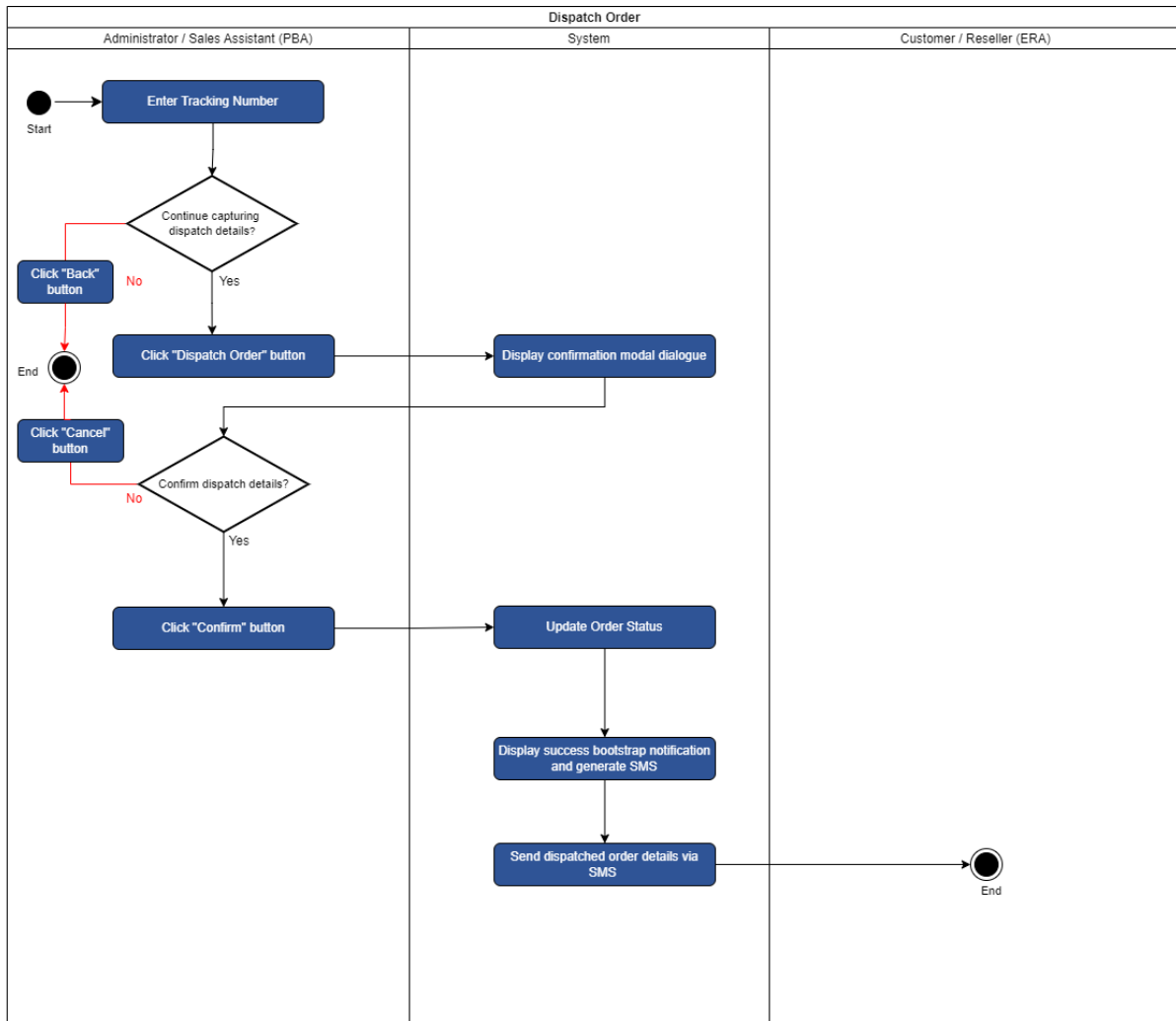


Figure 52 – Dispatch Order use case 5.20

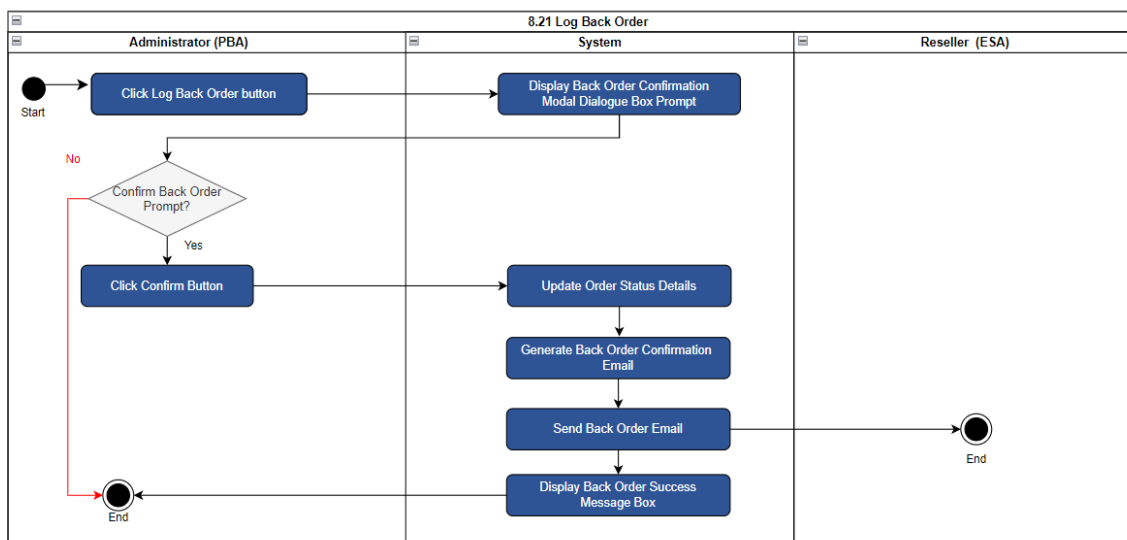


Figure 53 –Log Back Order use case 5.21

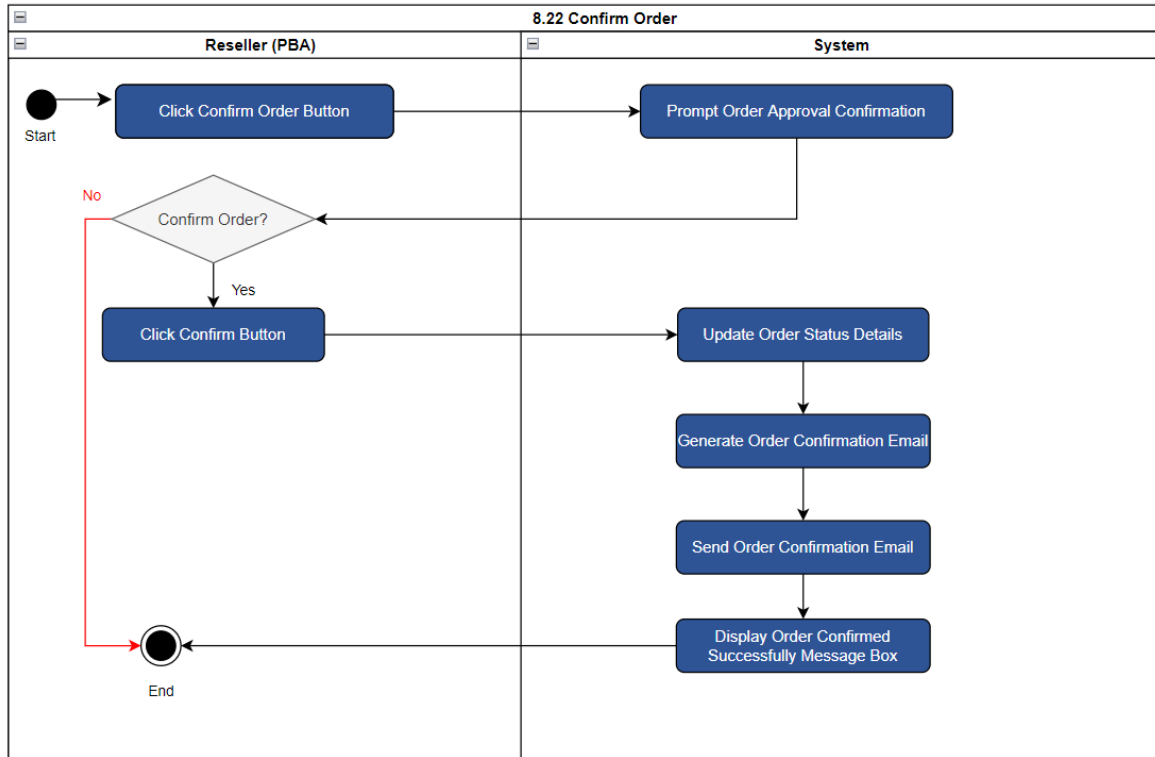


Figure 54 –Confirm Order use case 5.22

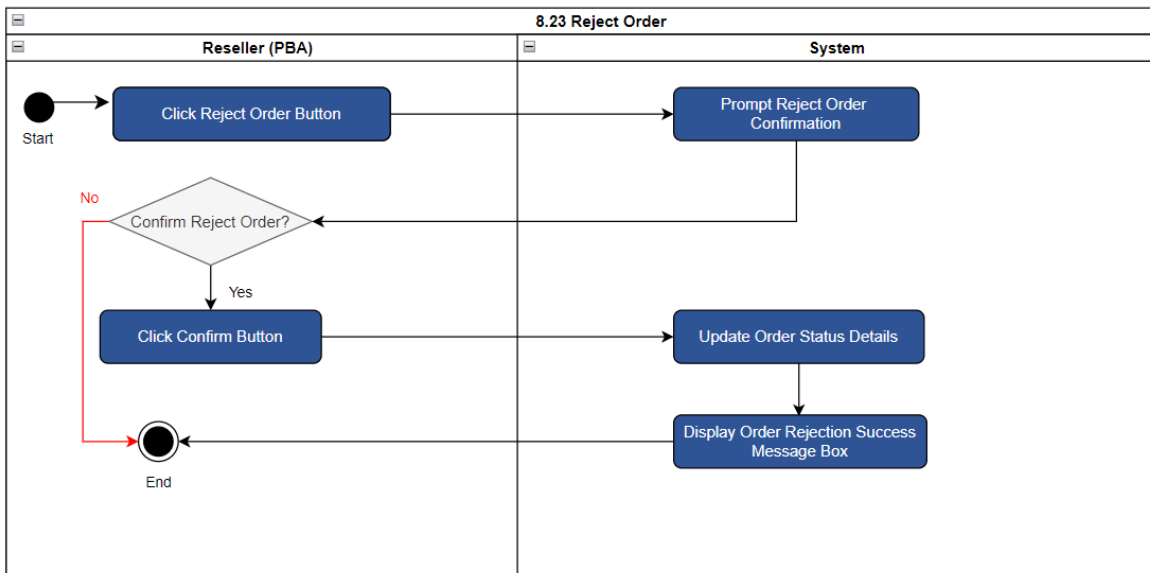


Figure 55 – Reject Order use case 5.23

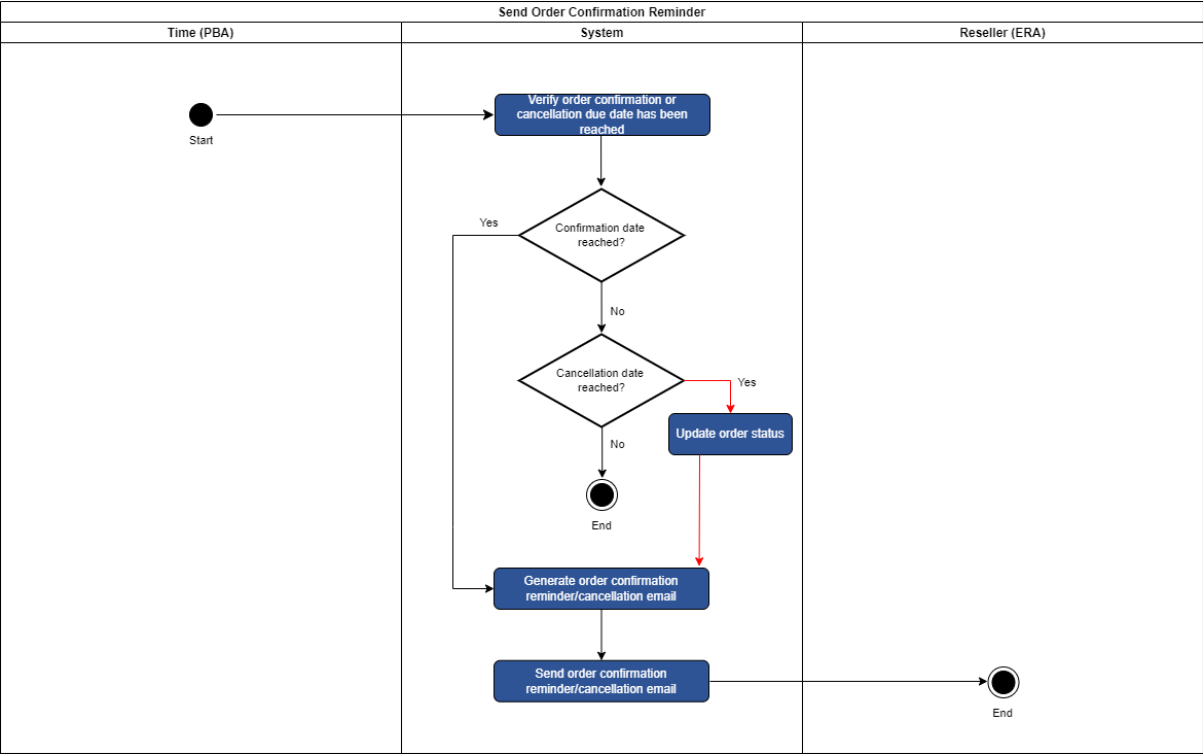


Figure 56 – Send Order Confirmation Reminder use case 5.24

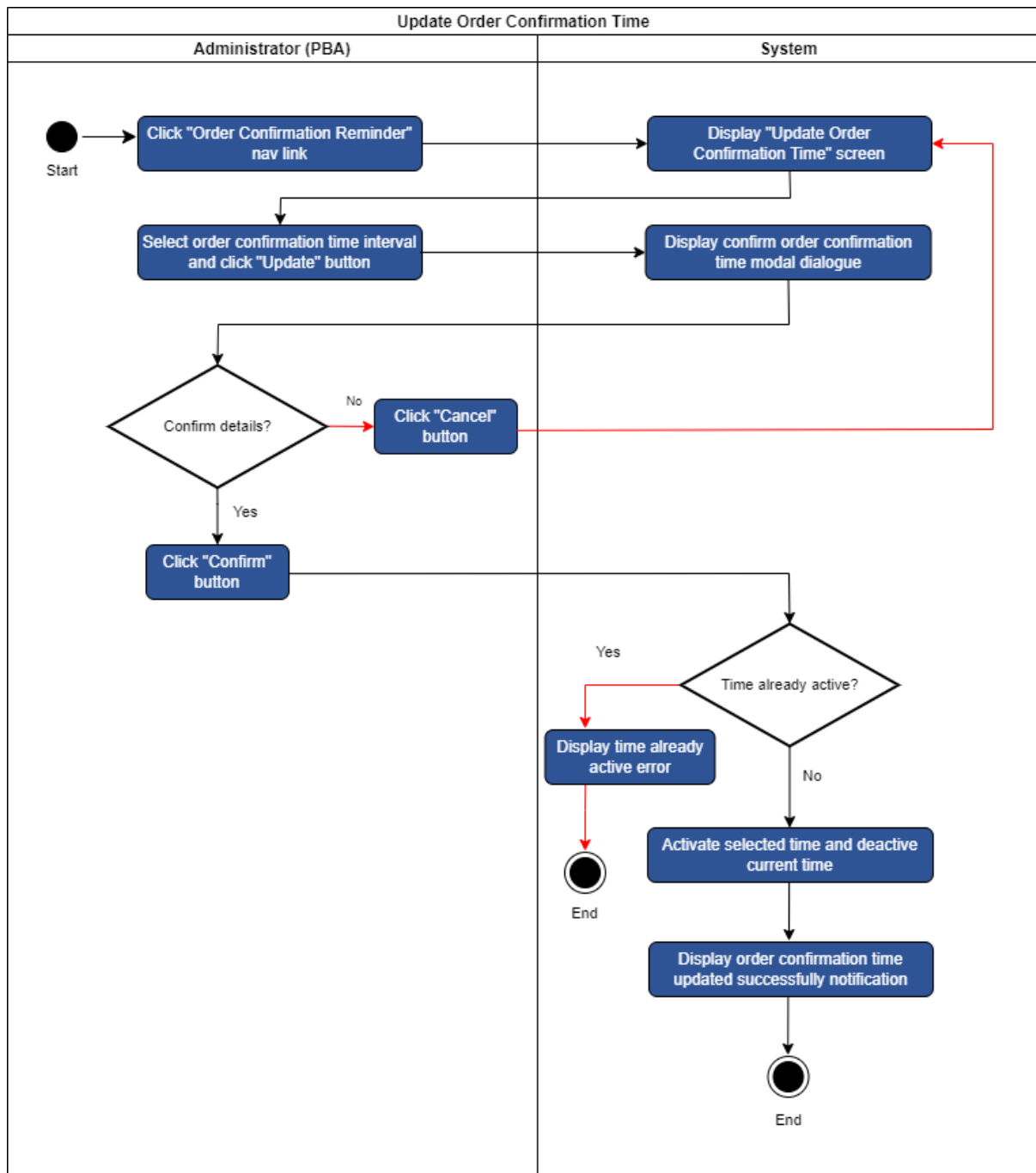


Figure 57 – Update Order Confirmation Time use case 5.25

2.6. Query Reason Subsystem

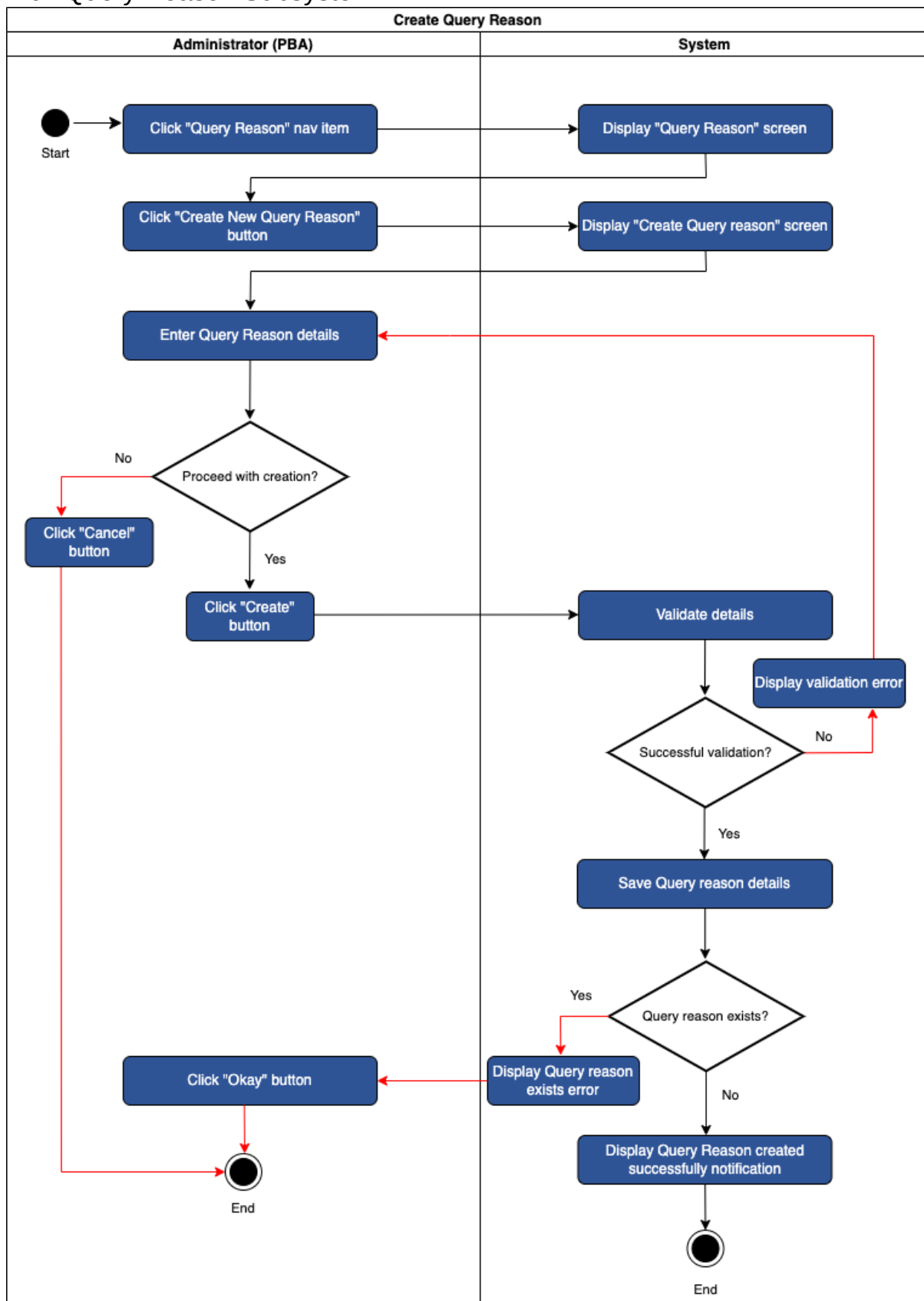


Figure 58 - Create Query Reason use case 6.1

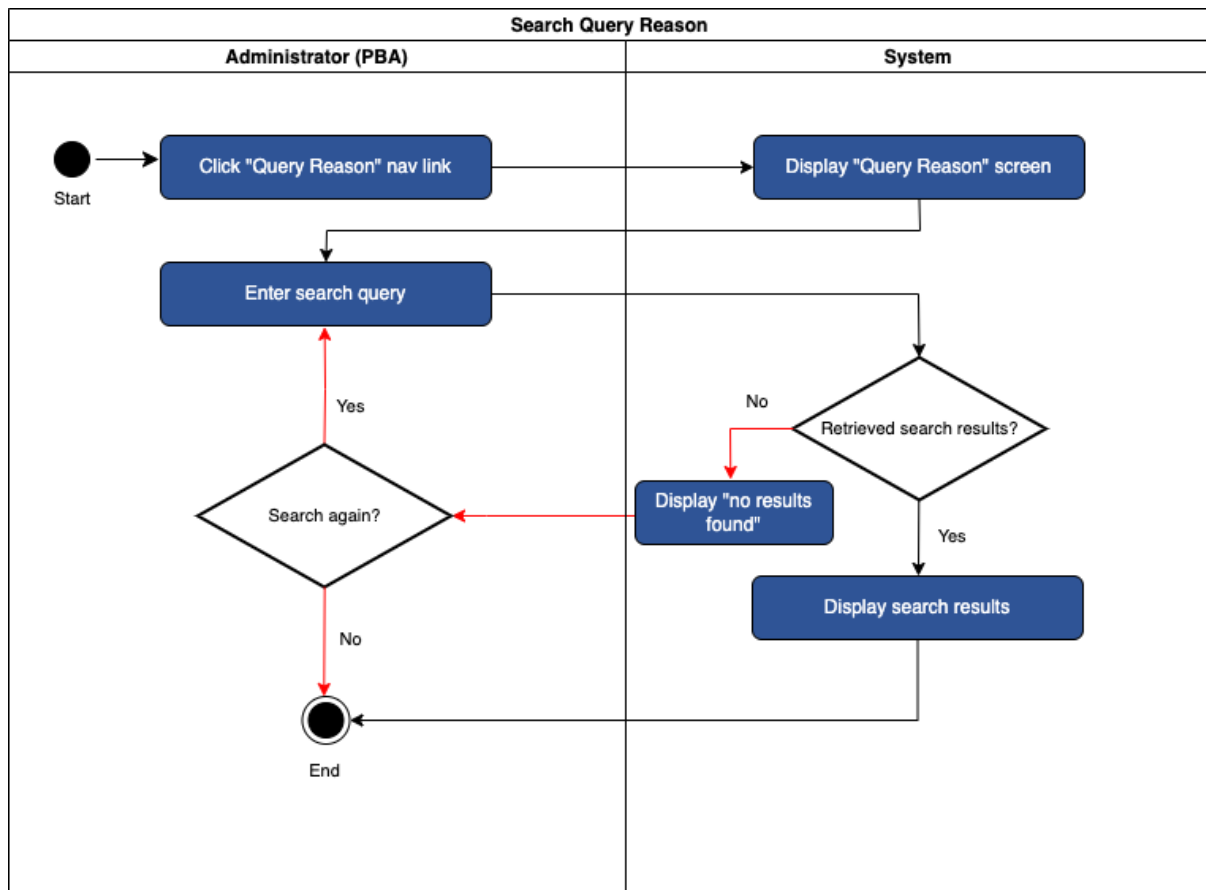


Figure 59 - Search Query Reason use case 6.2

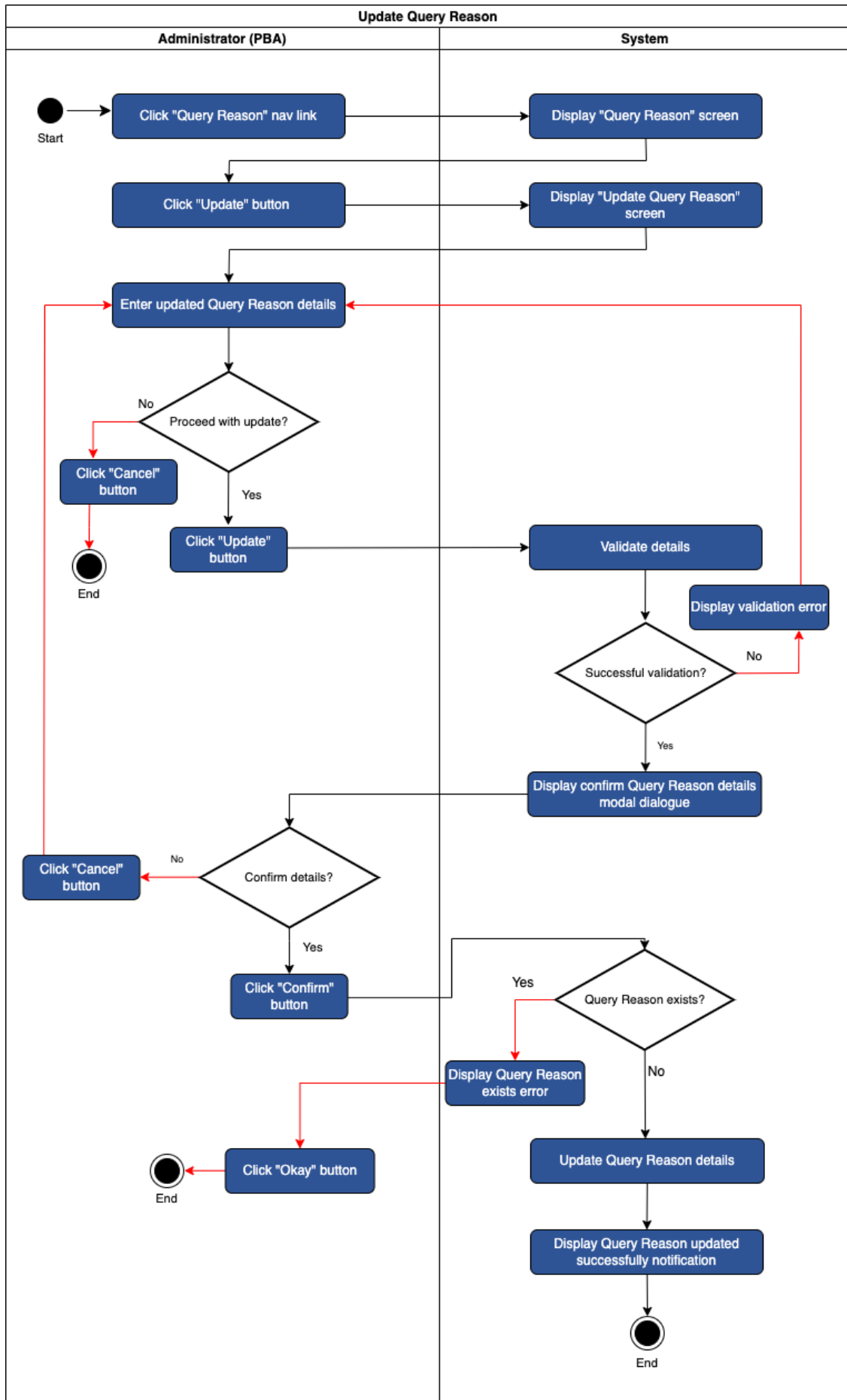


Figure 60 - Update Query Reason use case 6.3

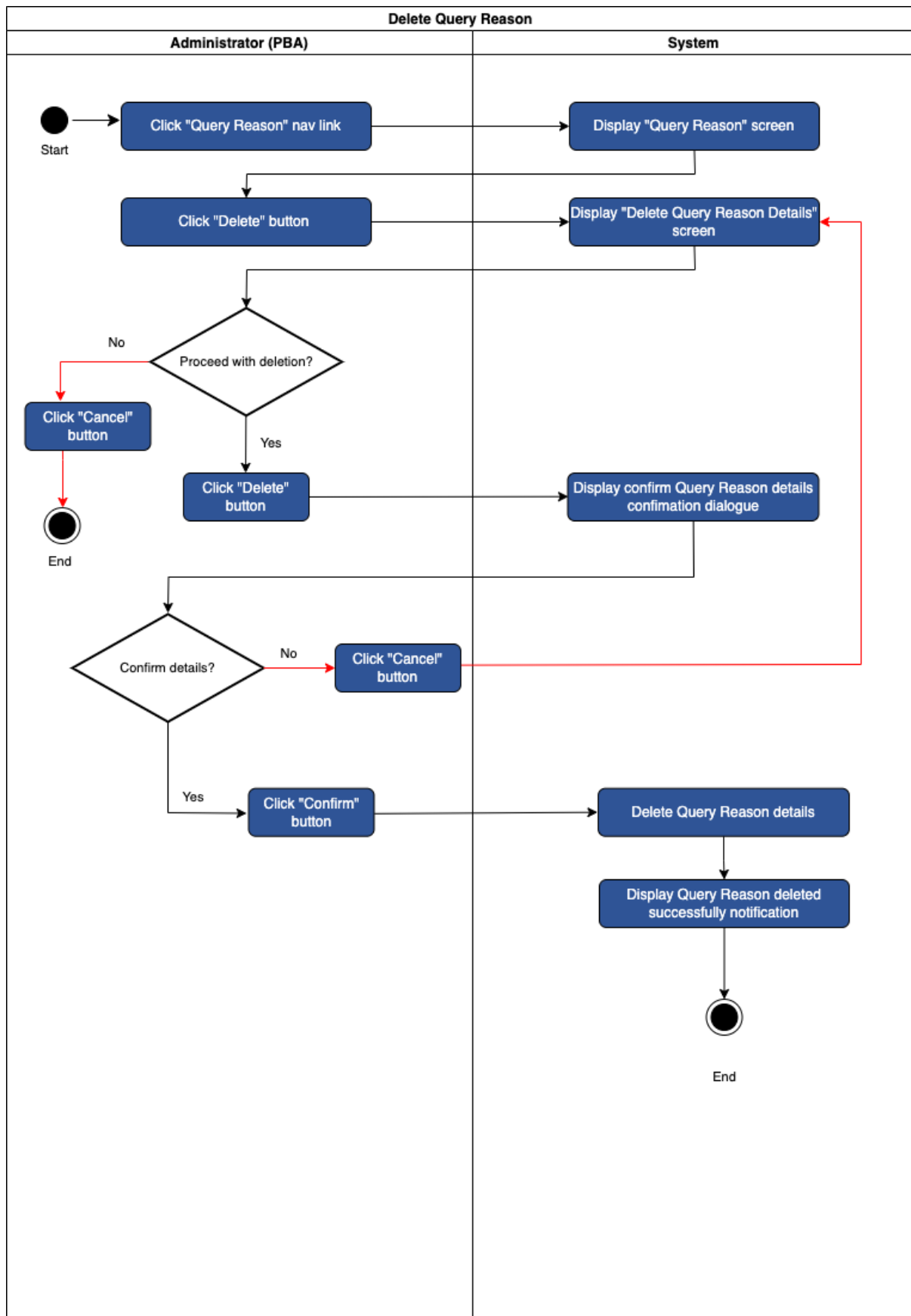


Figure 61 -Delete Query Reason use case 6.4

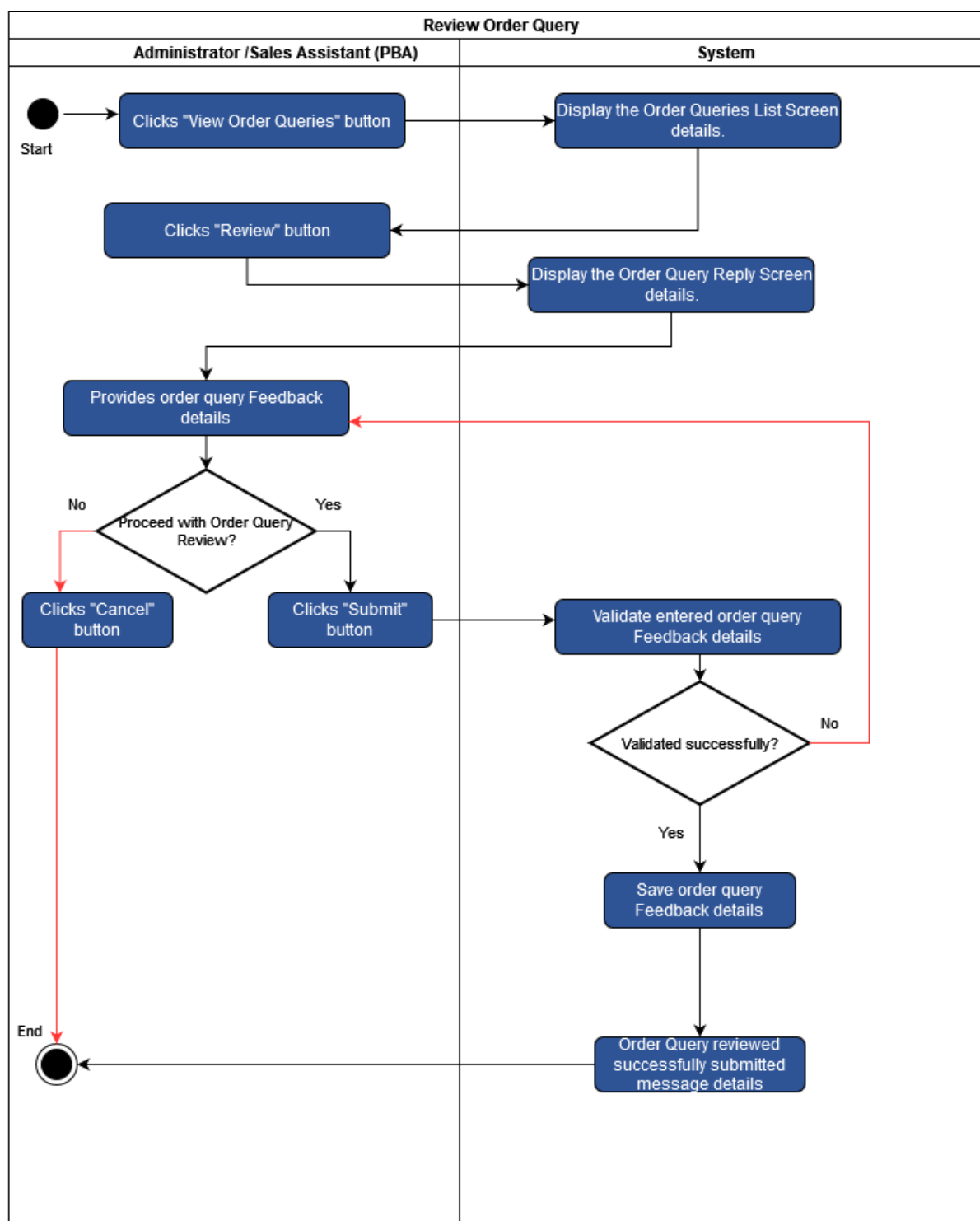


Figure 62 - Review Order Query use case 6.5

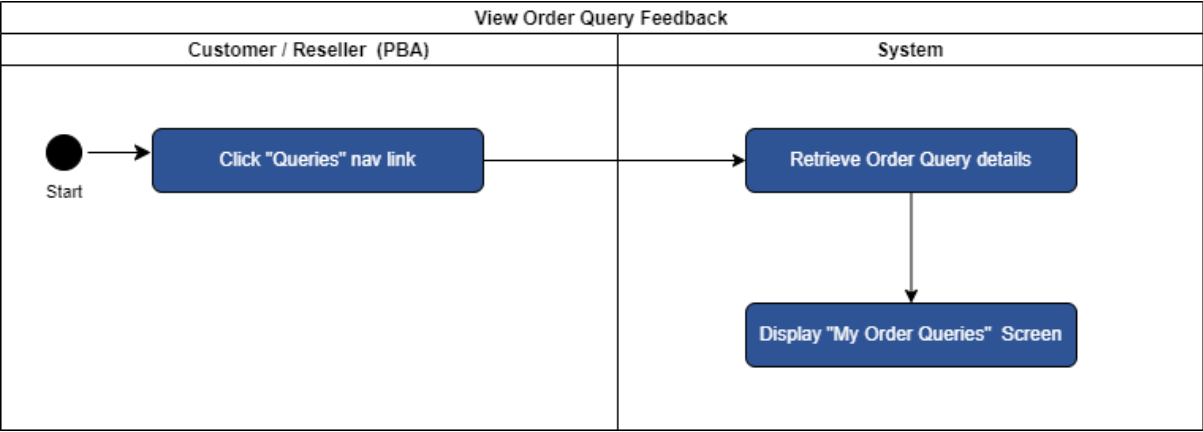


Figure 63 -View Order Query Feedback use case 6.6

2.7. Review Subsystem

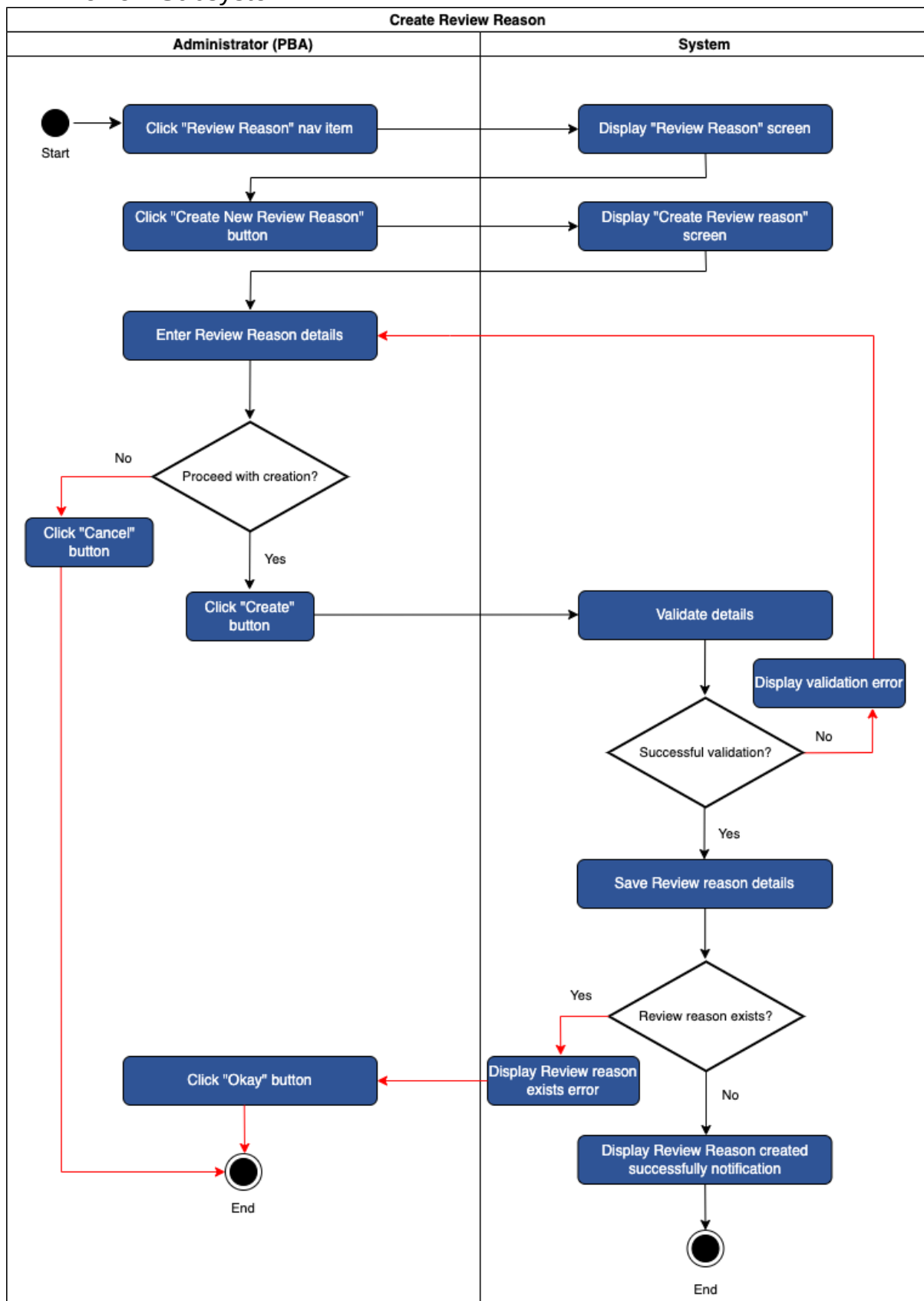


Figure 64 - Create Review Reason use case 7.1

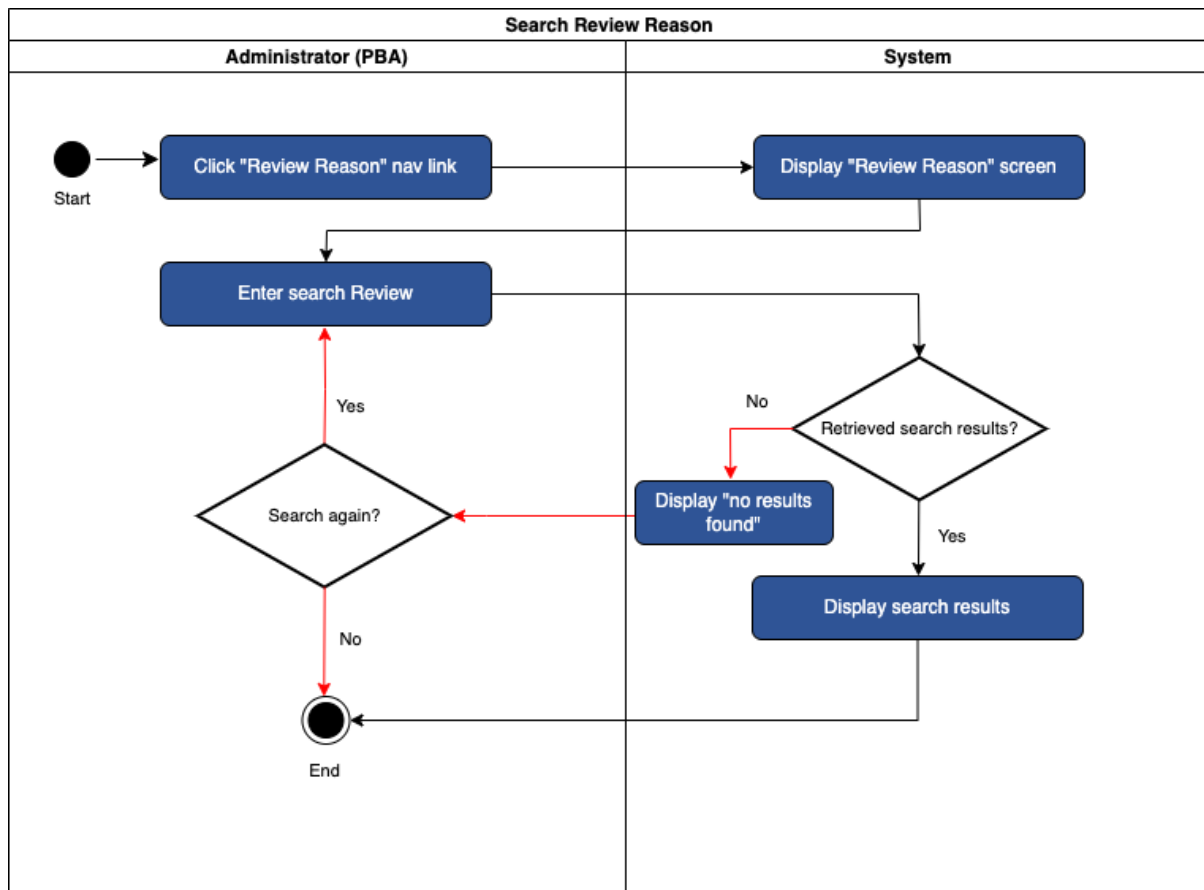


Figure 65- Search Review Reason use case 7.2

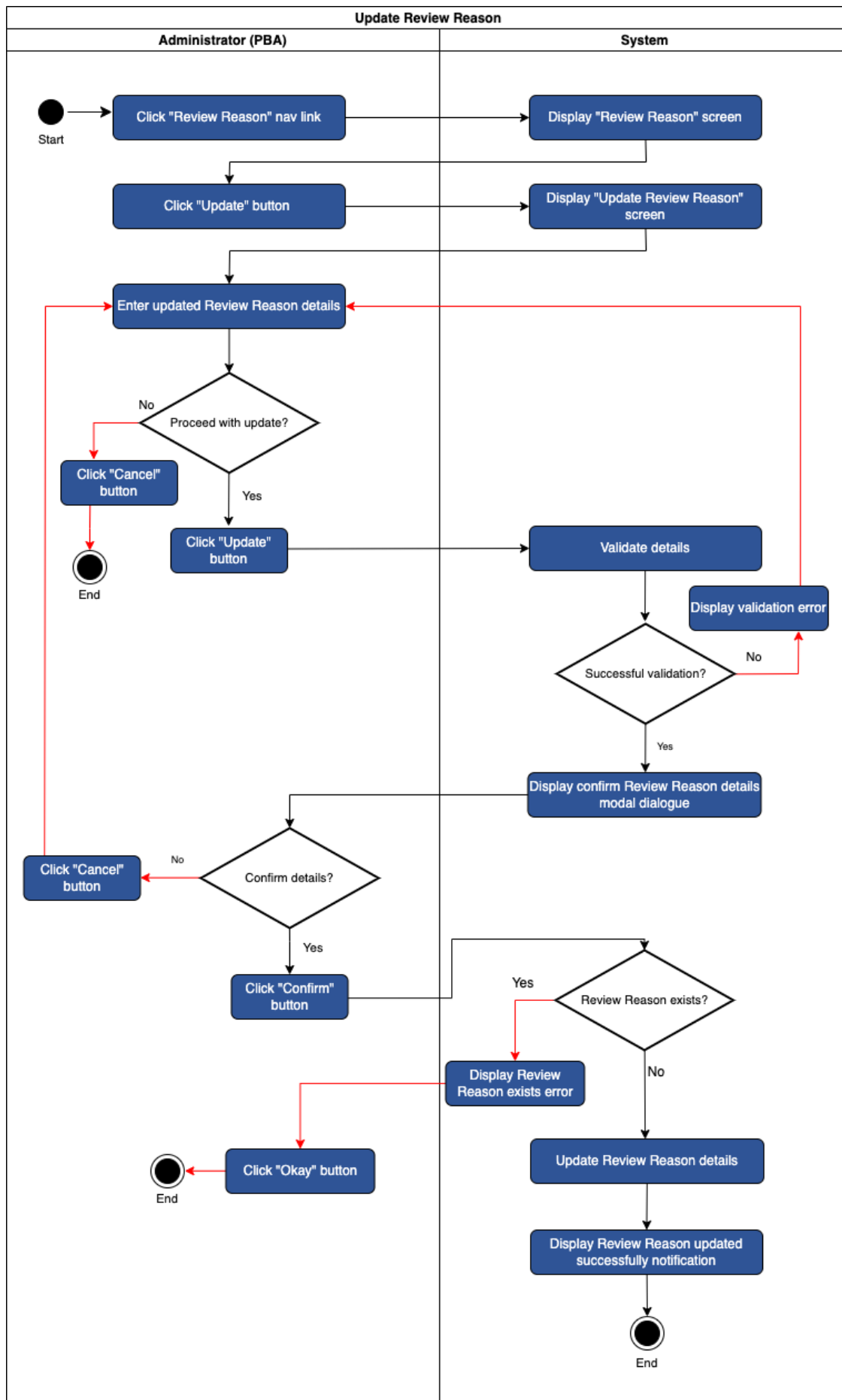


Figure 66 - Update Review Reason use case 7.3

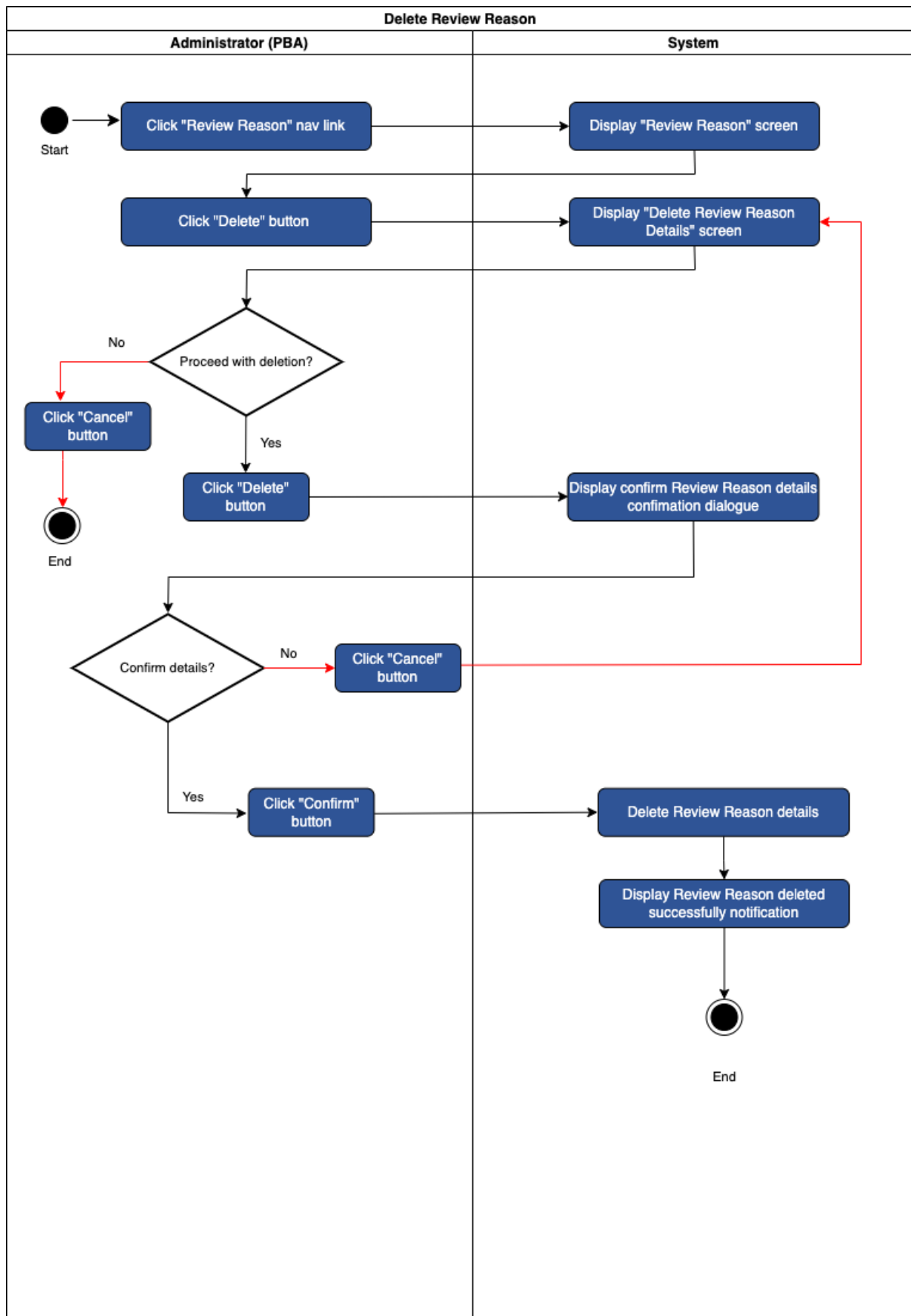


Figure 67 - Delete Review Reason use case 7.4

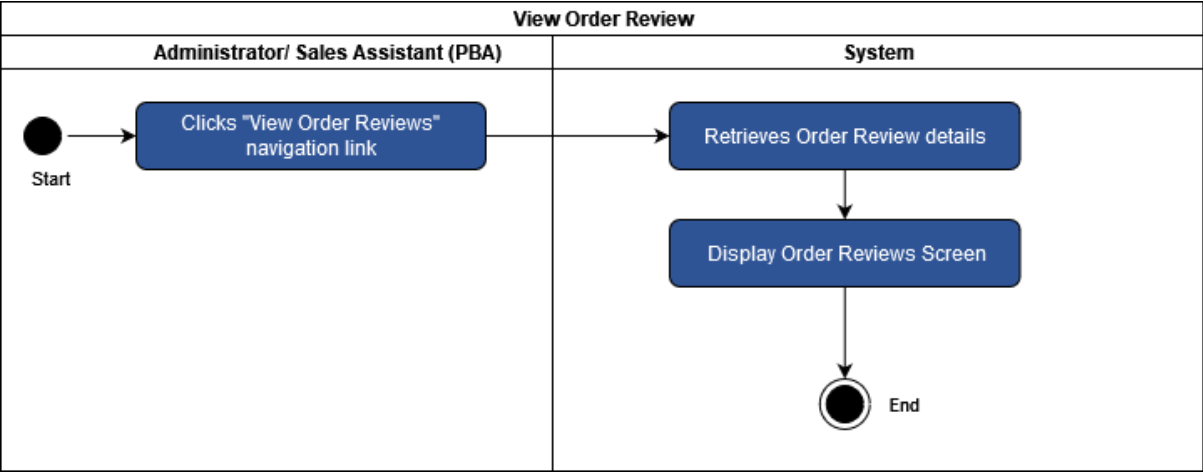


Figure 68 - View Order Review use case 7.5

2.8. Inventory Management Subsystem

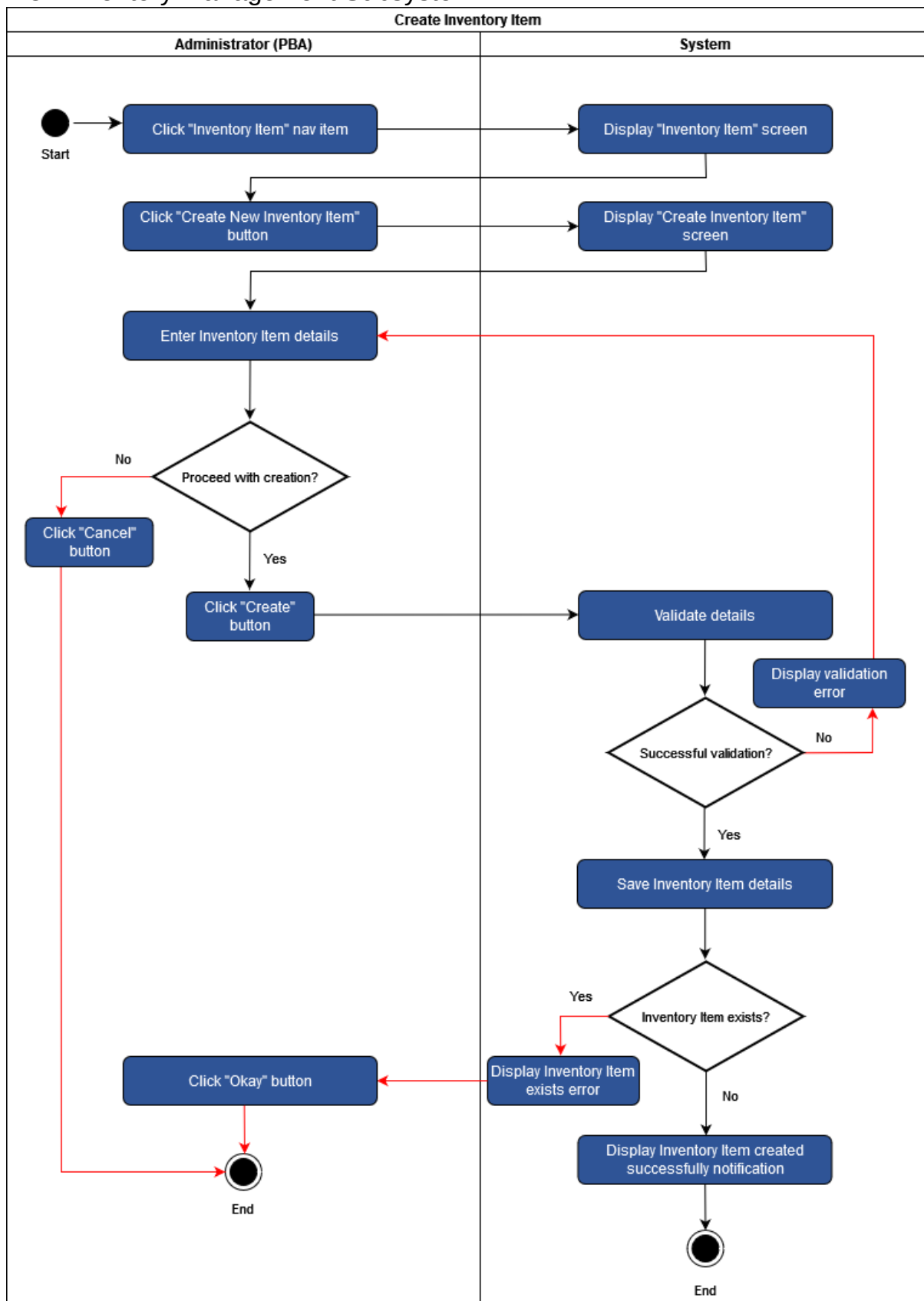


Figure 69 – Create Inventory Item use case 8.1

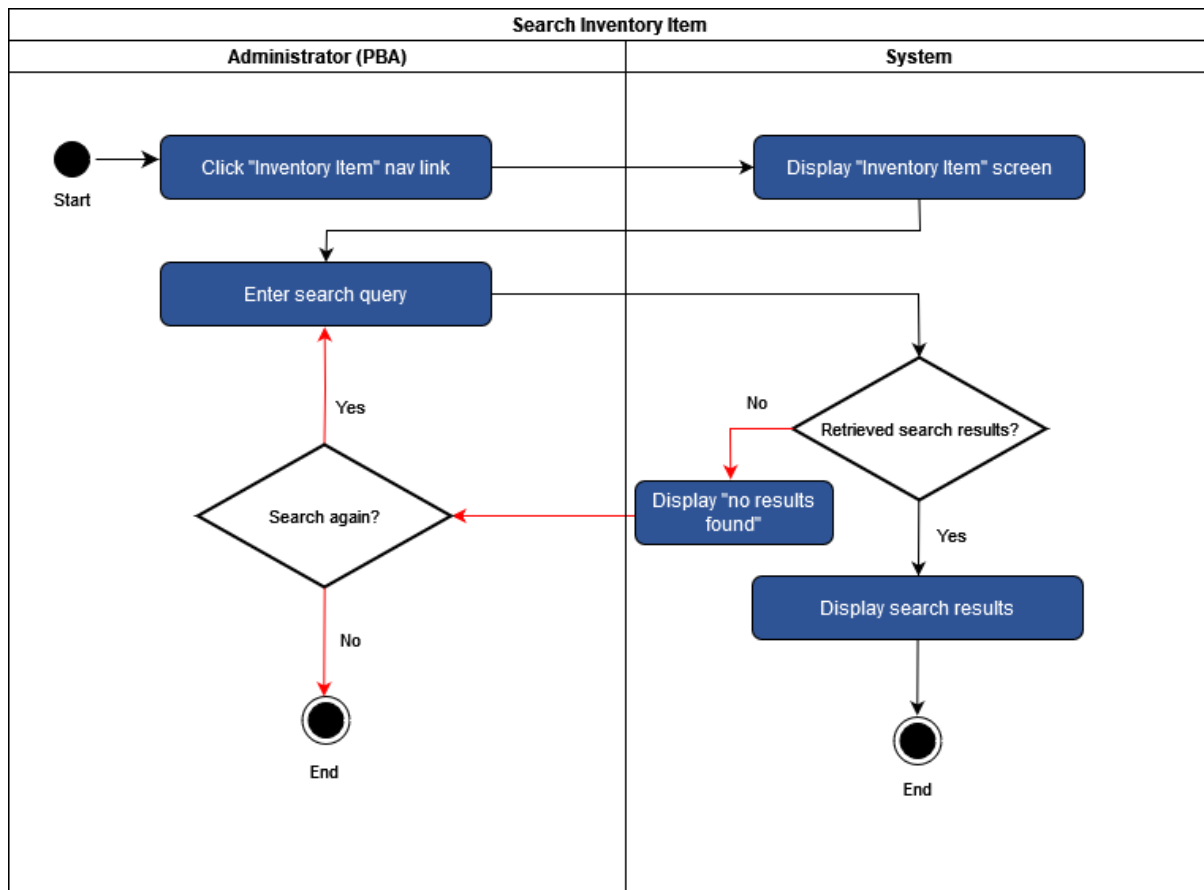


Figure 70 – Search Inventory Item use case 8.2

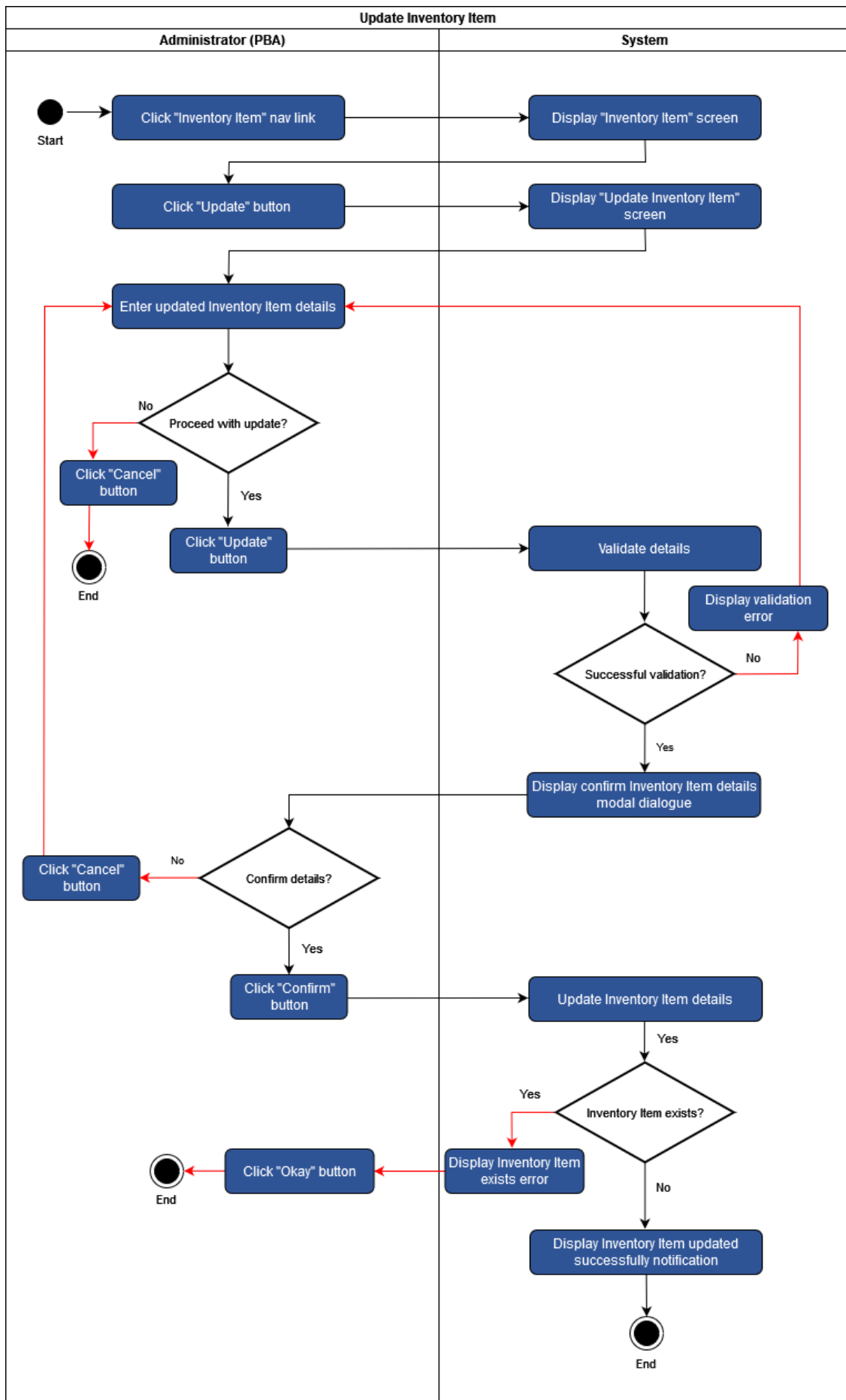


Figure 71 – Update Inventory Item use case 8.3

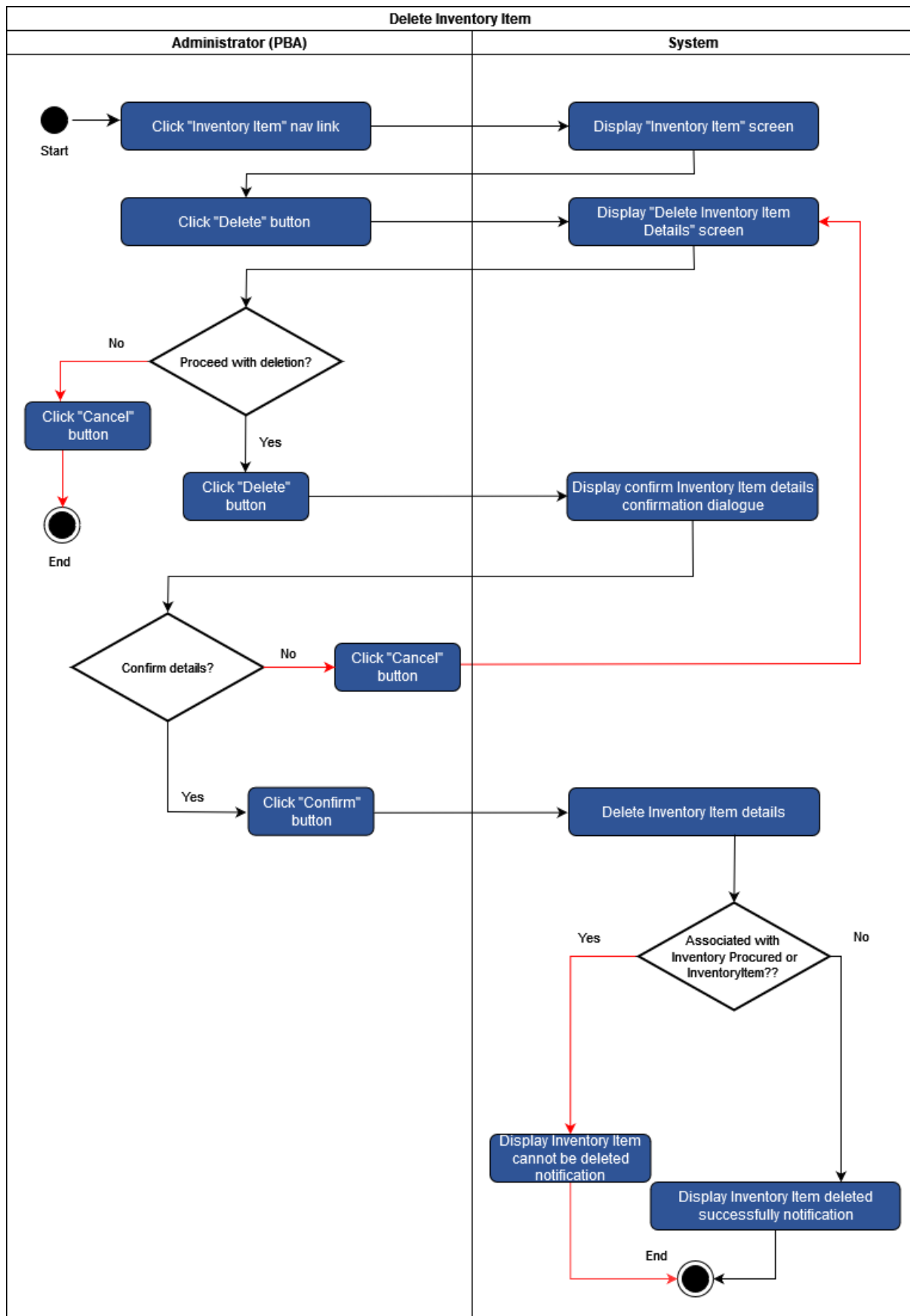


Figure 72 – Delete Inventory Item use case 8.4

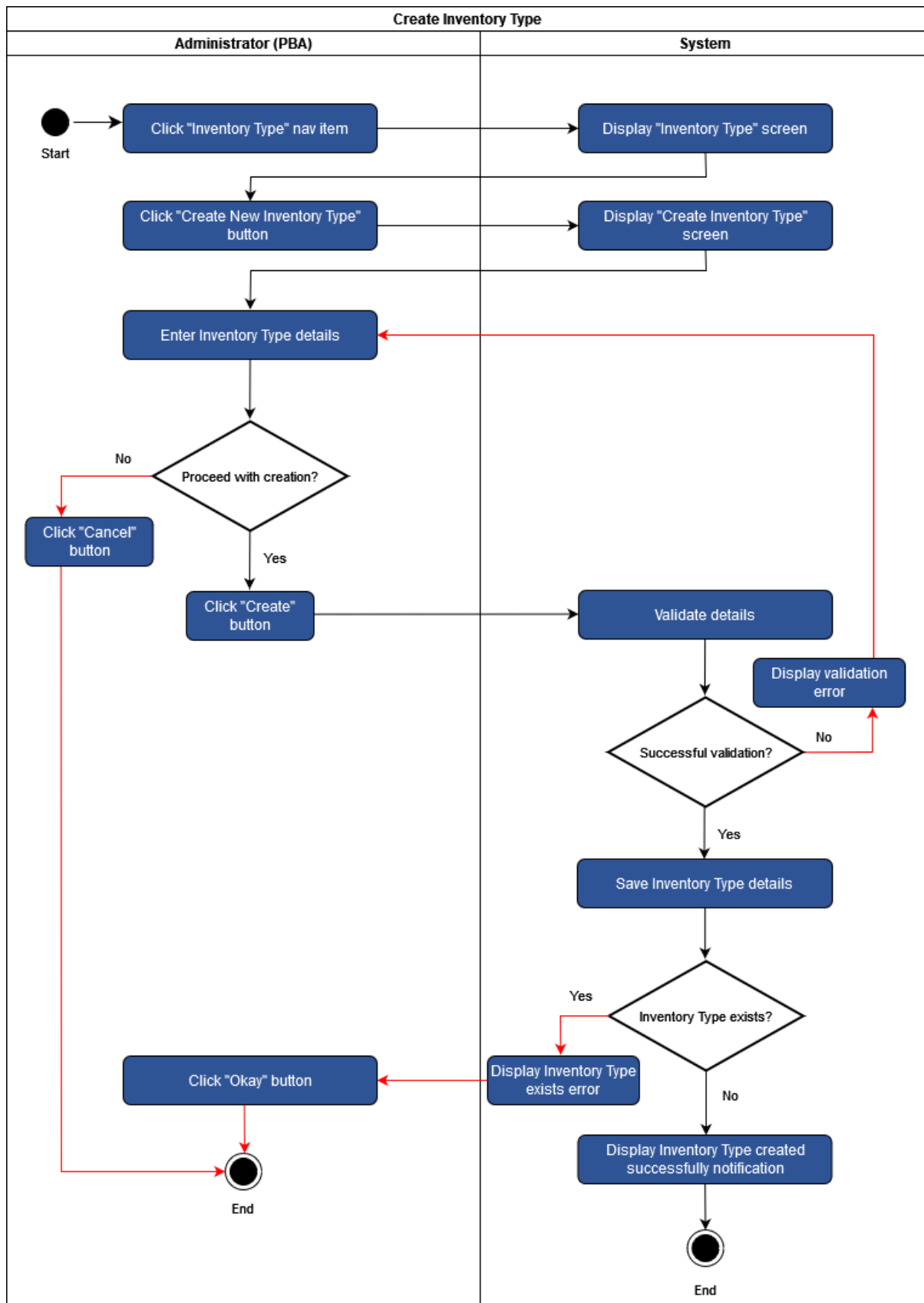


Figure 73 – Create Inventory Type use case 8.5

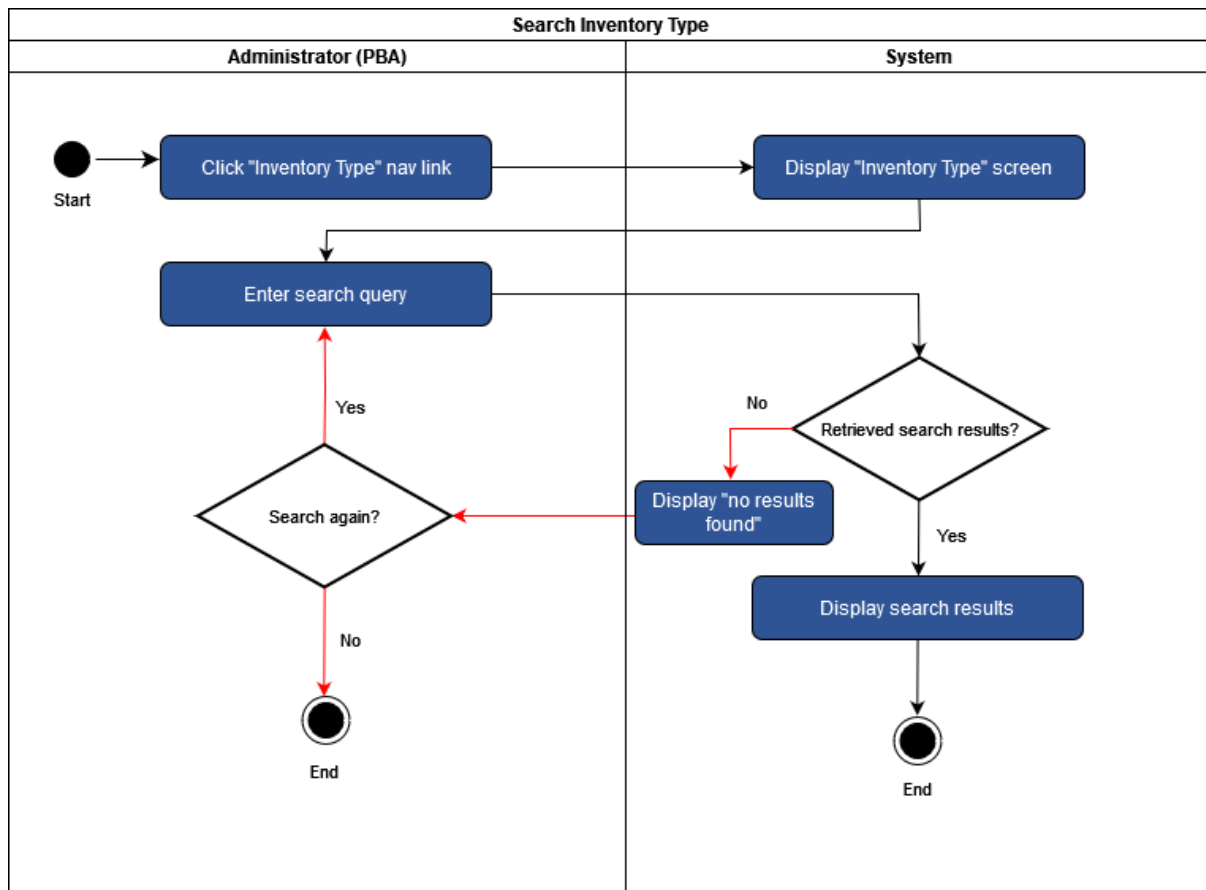


Figure 74 – Search Inventory Type use case 8.6

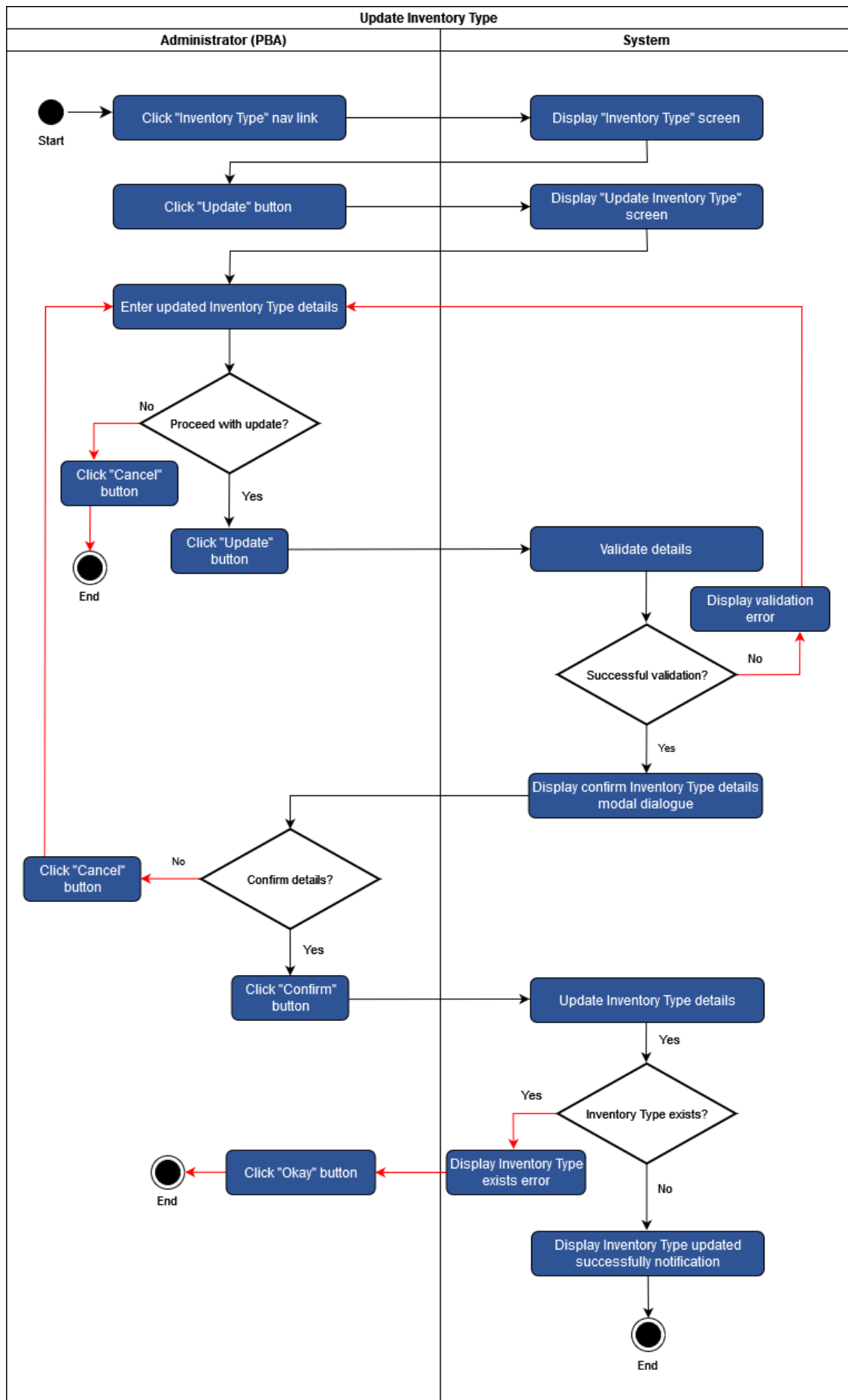


Figure 75 – Update Inventory Type use case 8.7

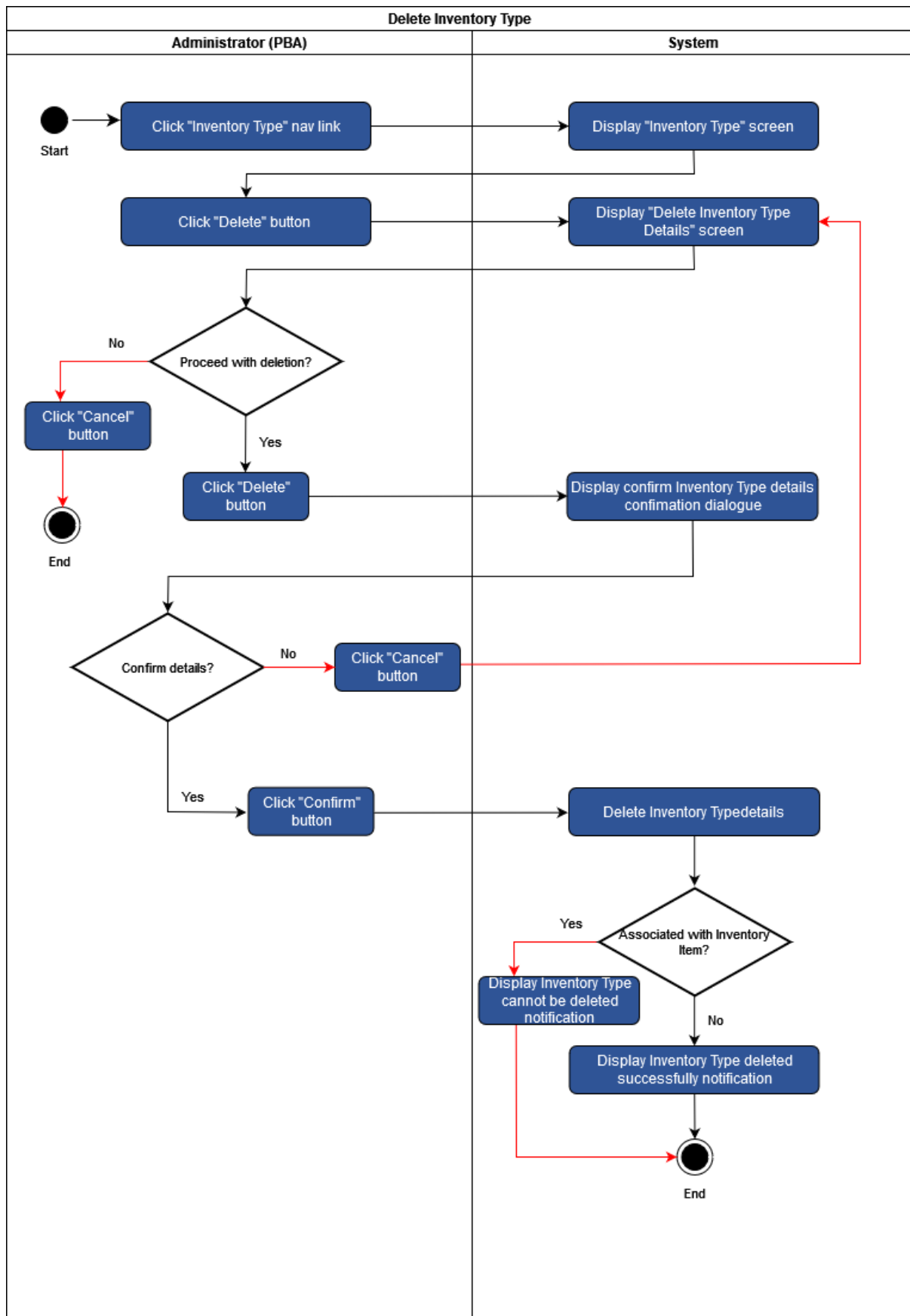


Figure 76 – Delete Inventory Type use case 8.8

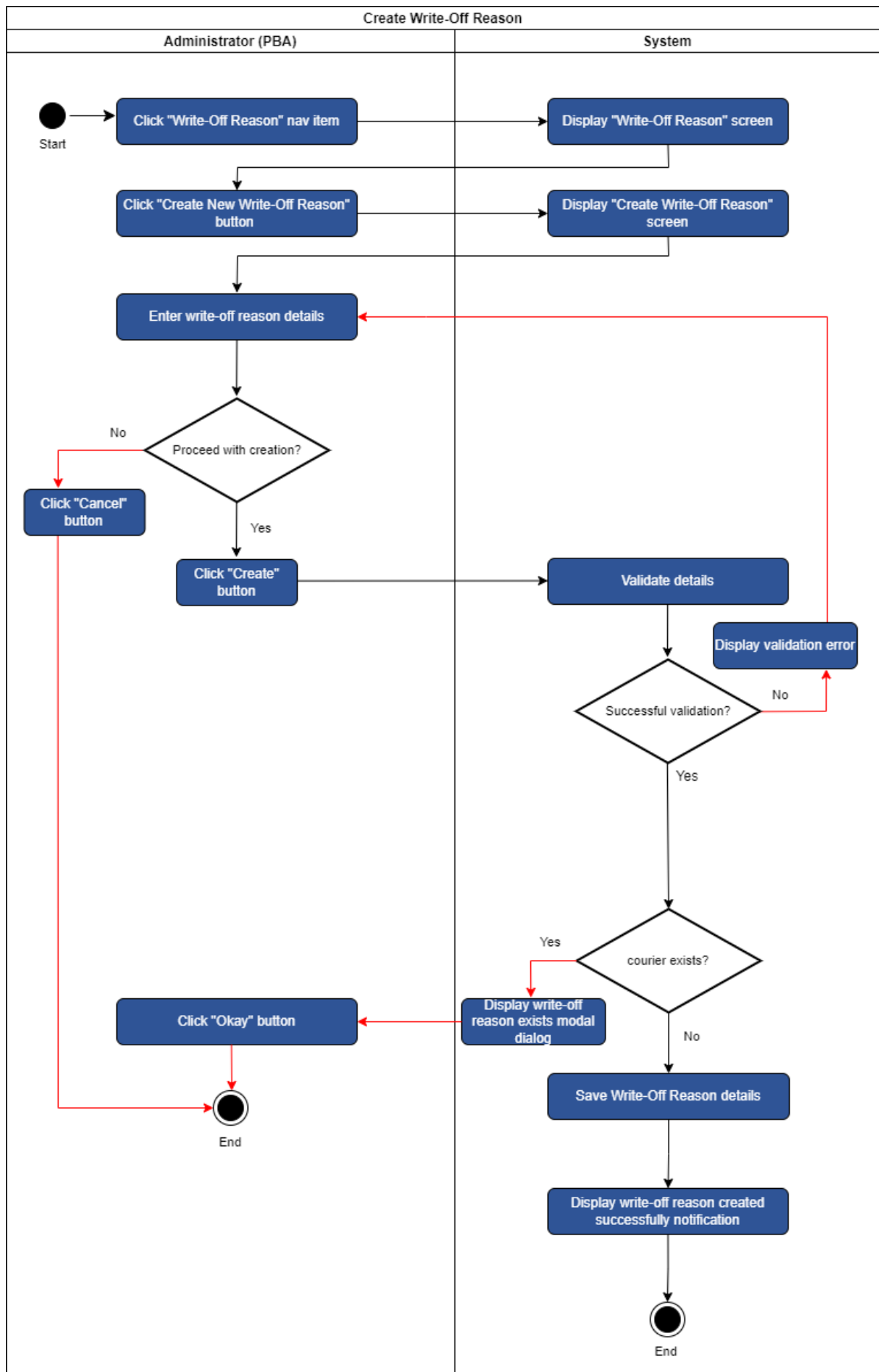


Figure 77 – Create Write-Off Reason use case 8.9

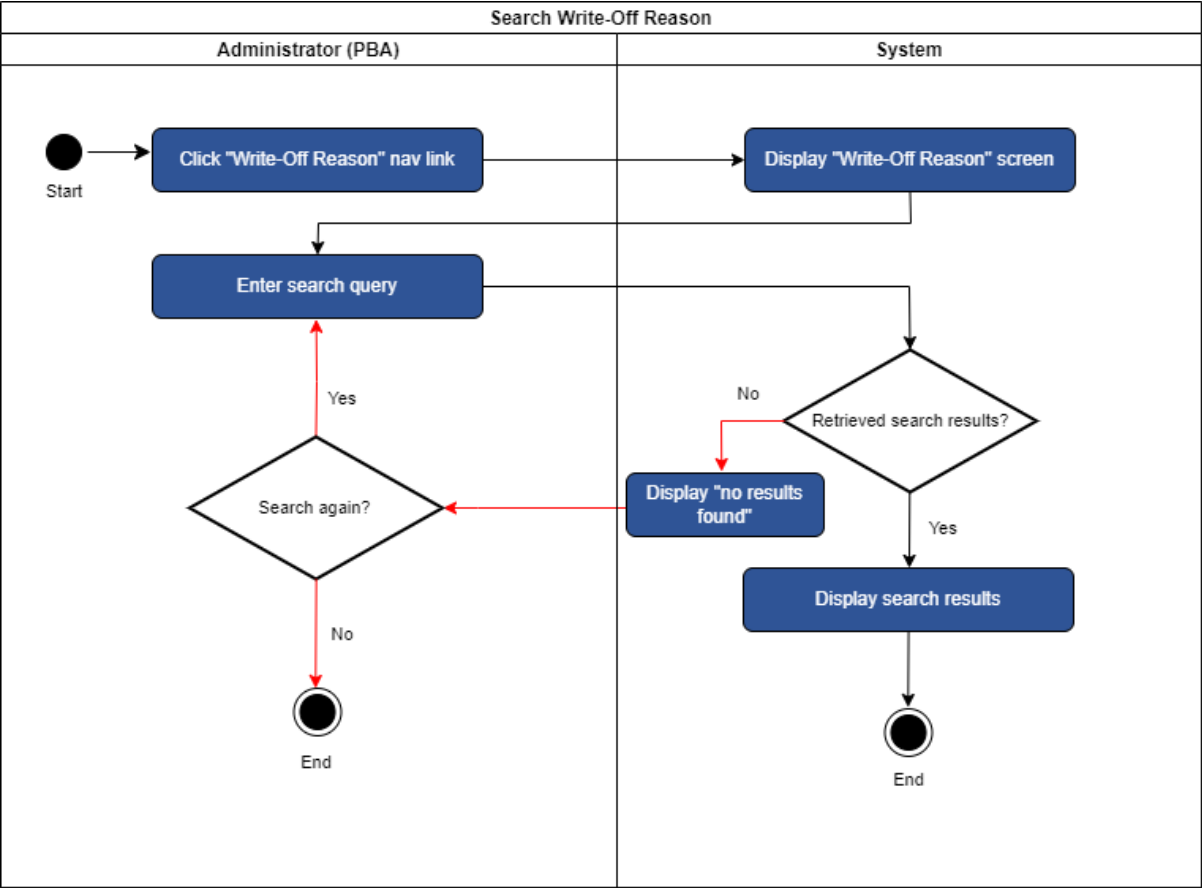


Figure 78 – Search Write-Off Reason use case 8.10

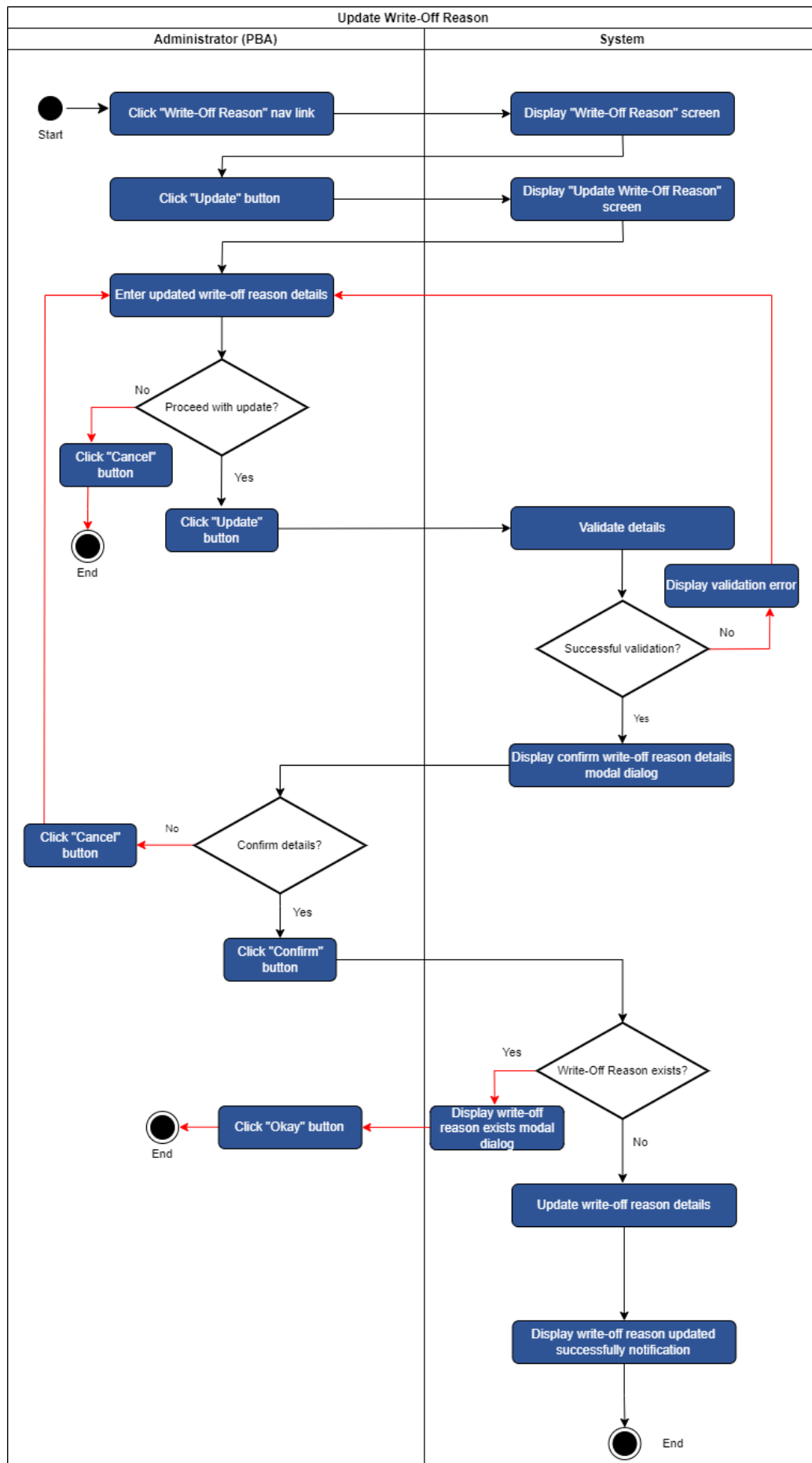


Figure 79 –Update Write-Off Reason use case 8.11

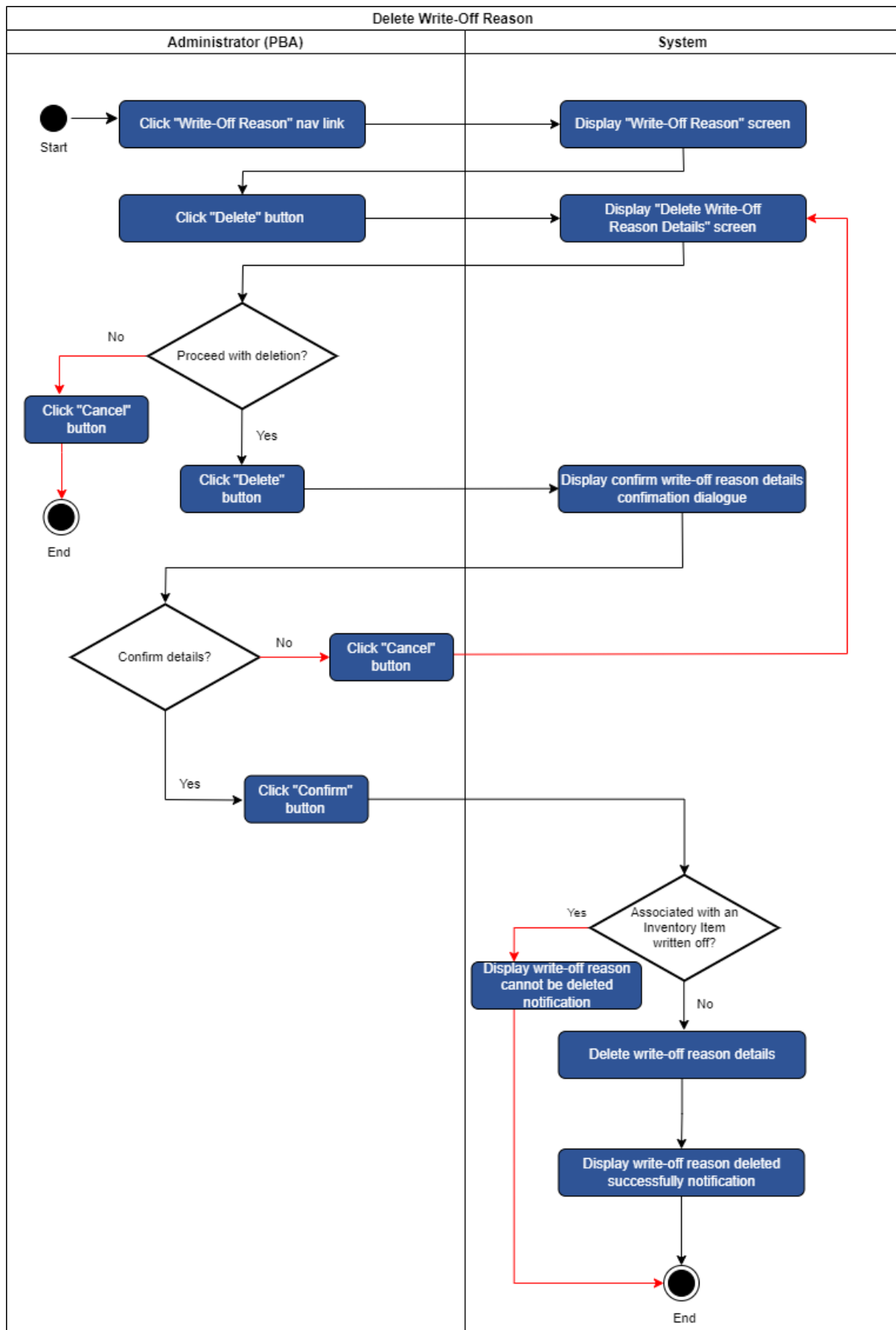


Figure 80 – Delete Write-Off Reason use case 8.12

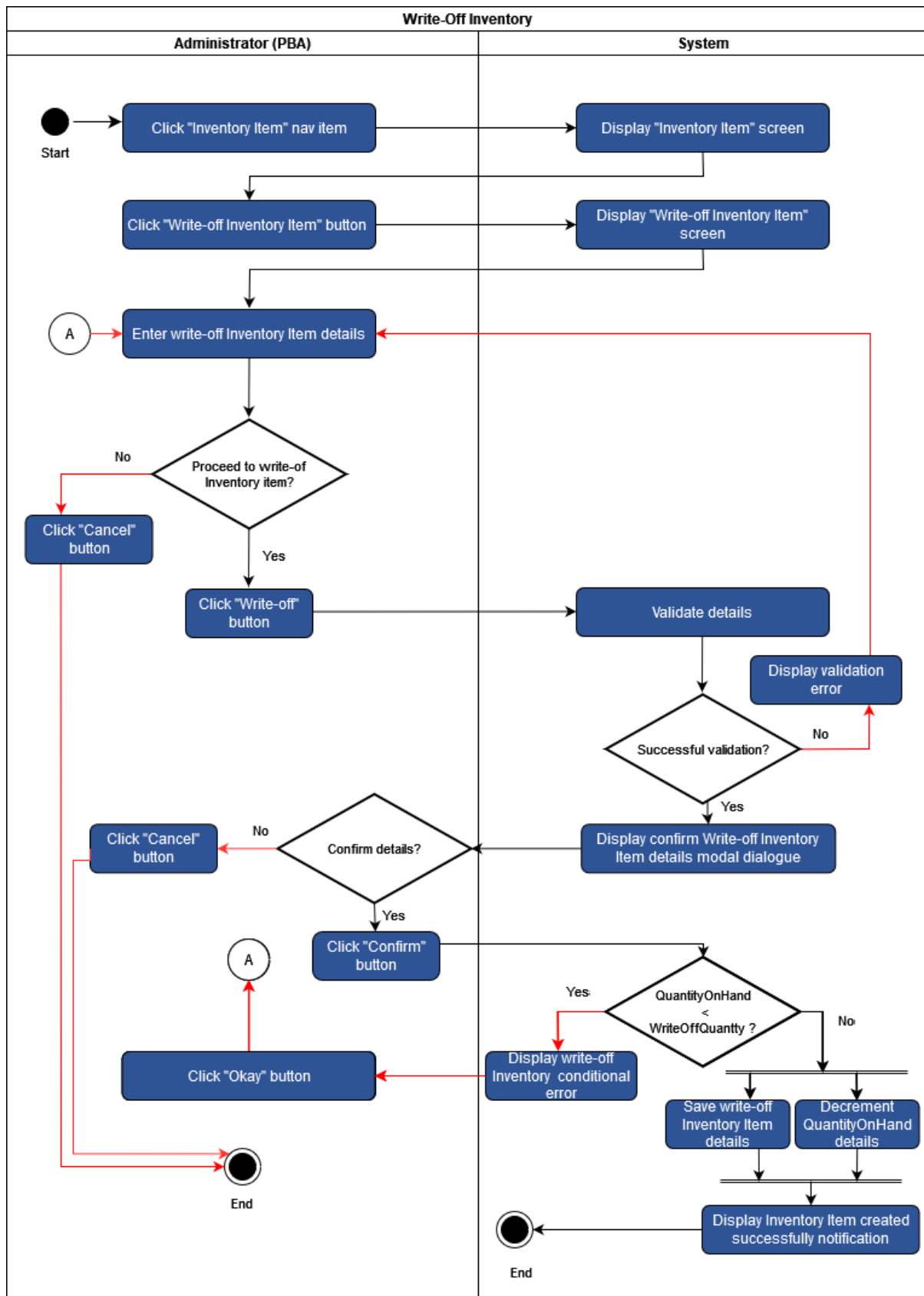


Figure 81 –Write-Off Inventory use case 8.13

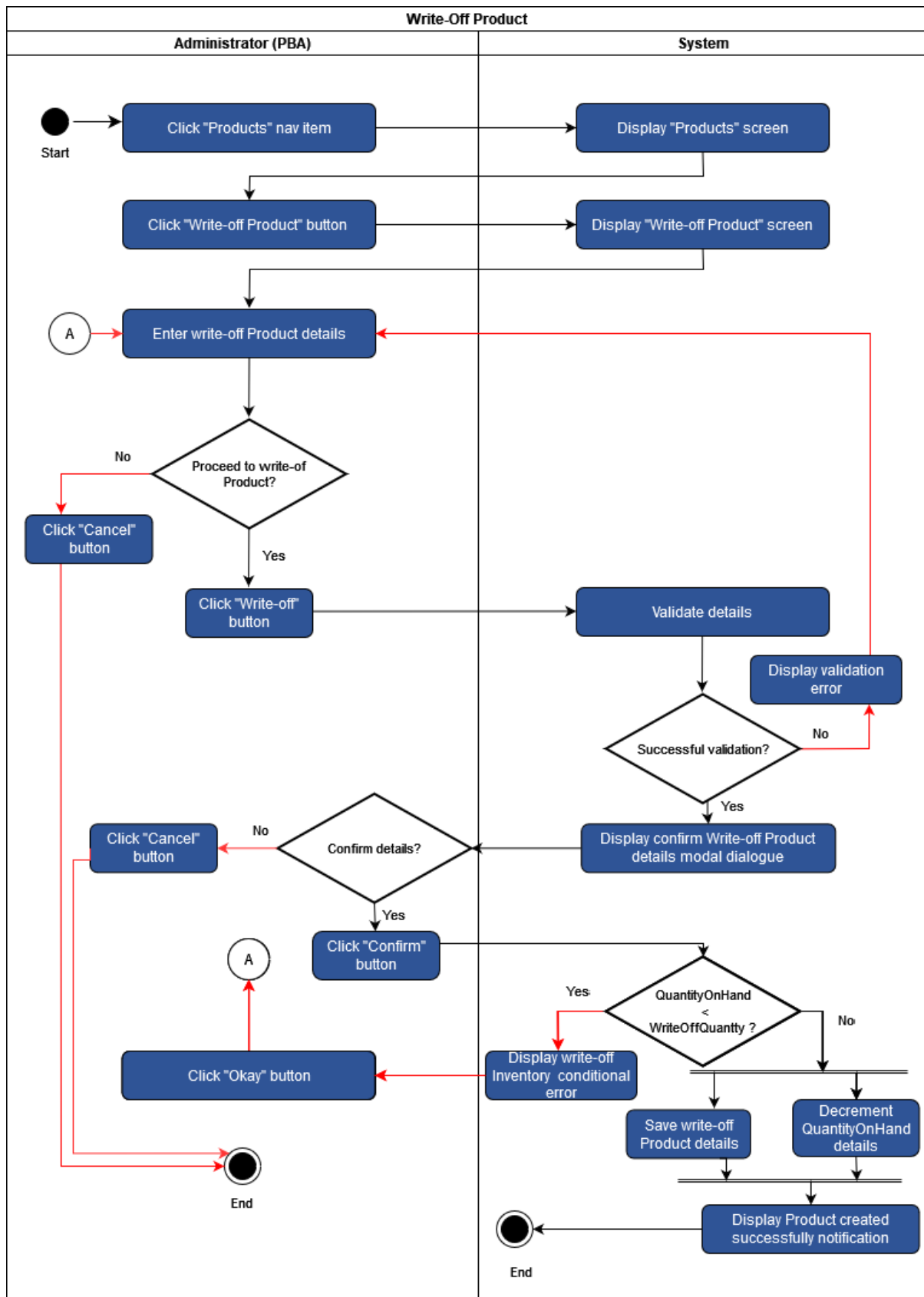


Figure 82 –Write-Off Product use case 8.14

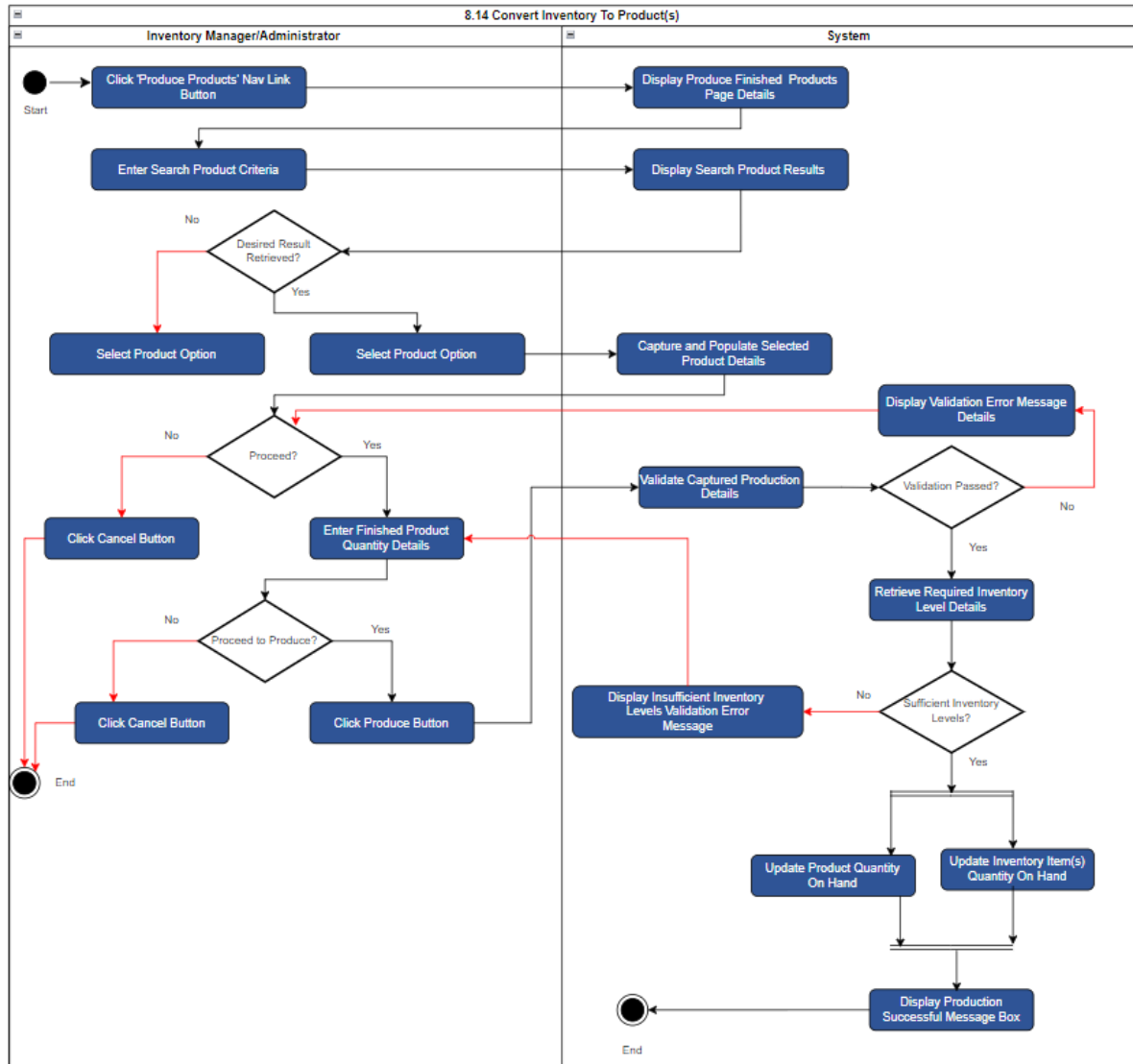


Figure 83 – Convert Inventory to Product use case 8.15

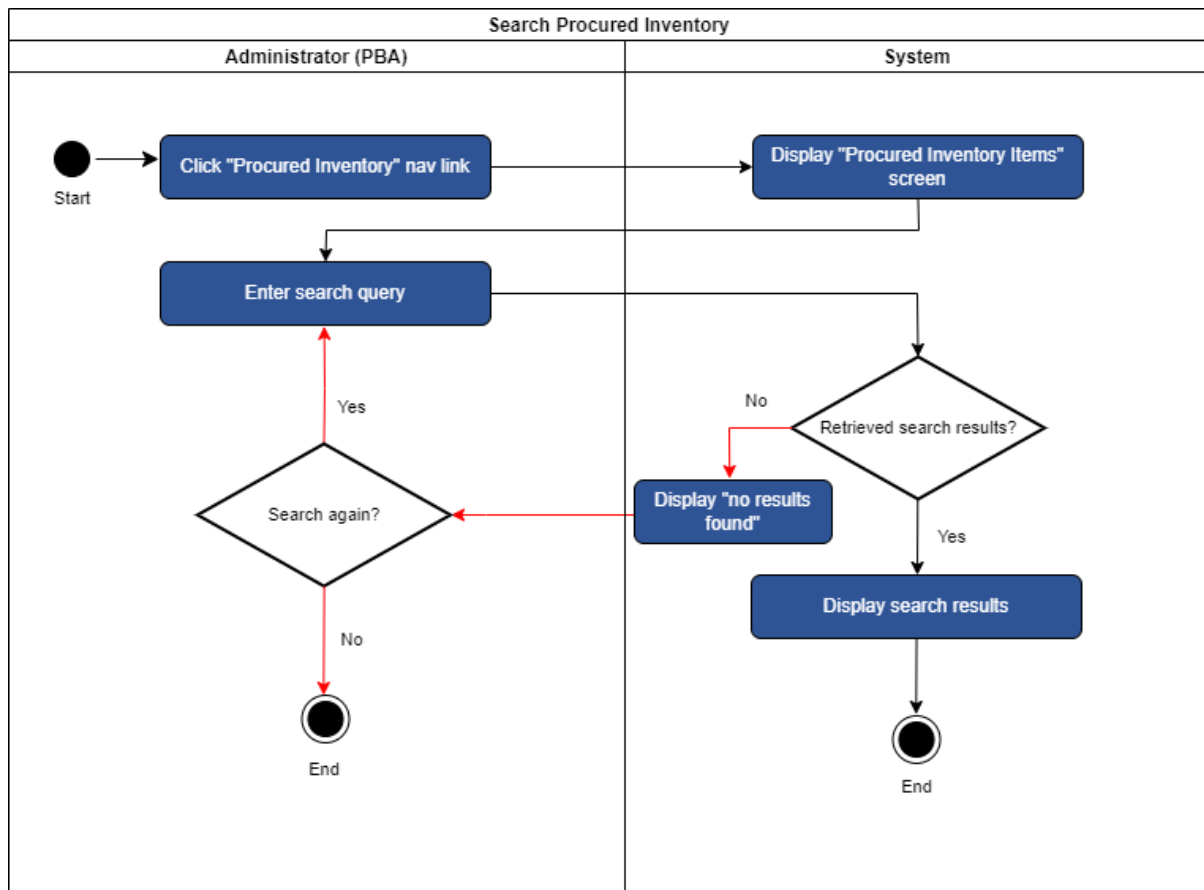


Figure 84 – Search Procured Inventory use case 8.16

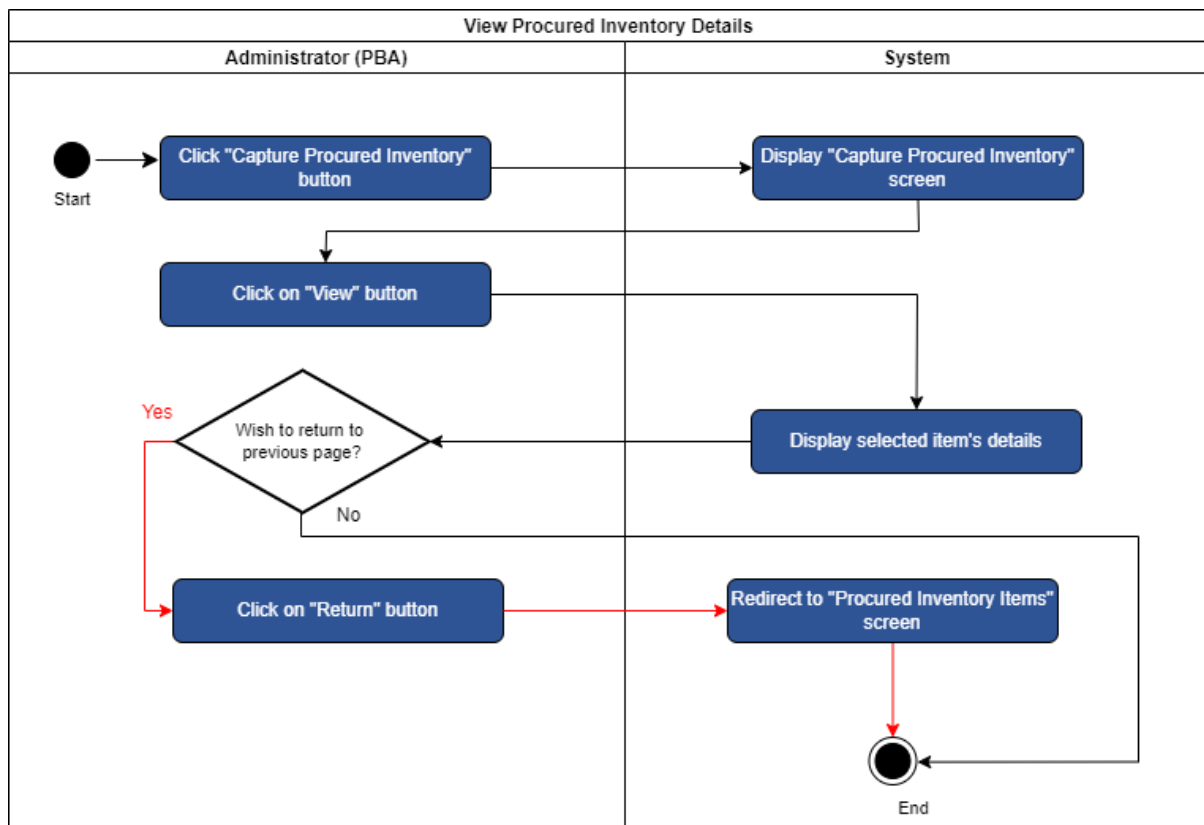


Figure 85 –View Procured Inventory Details use case 8.17

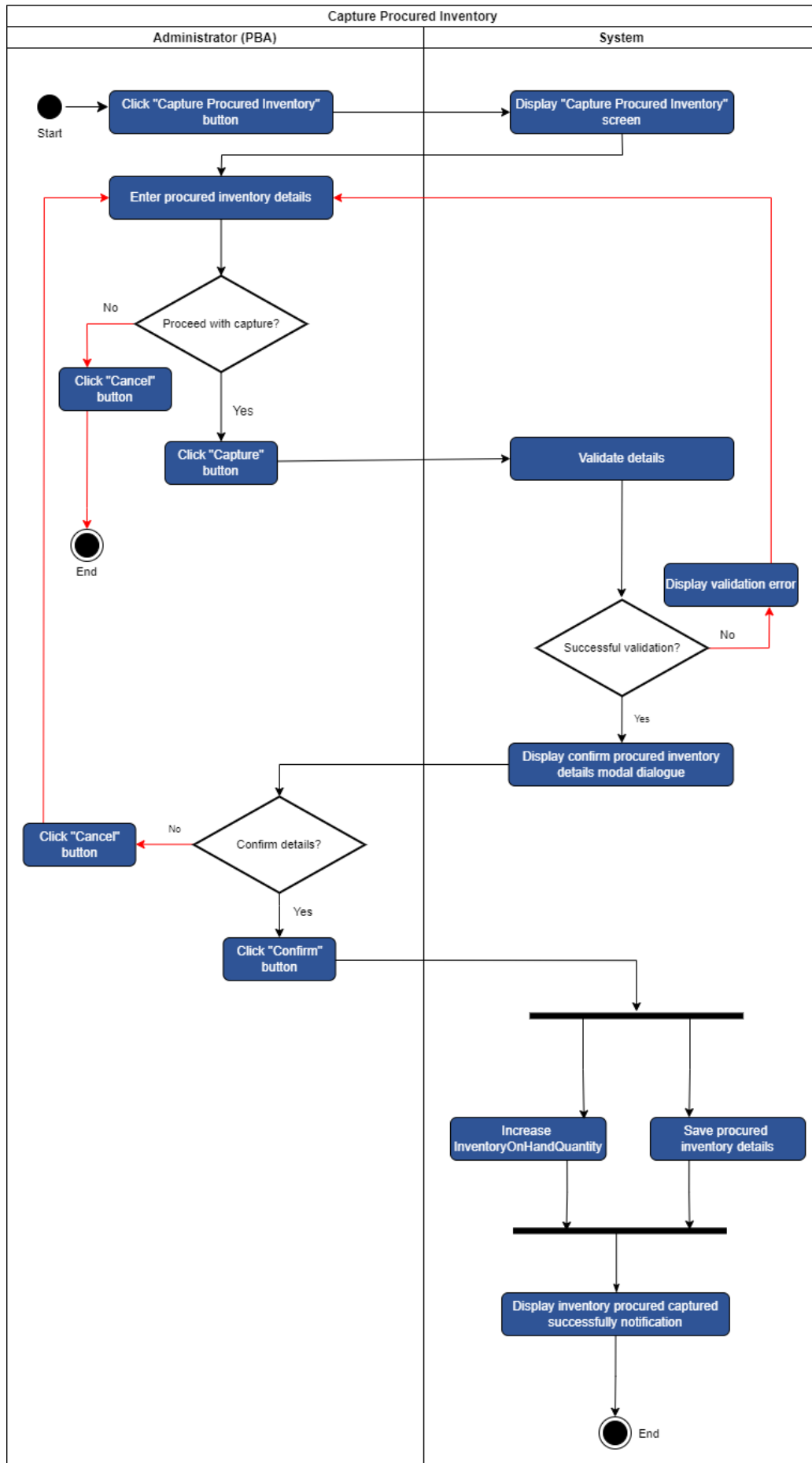


Figure 86 –Capture Procured Inventory use case 8.18

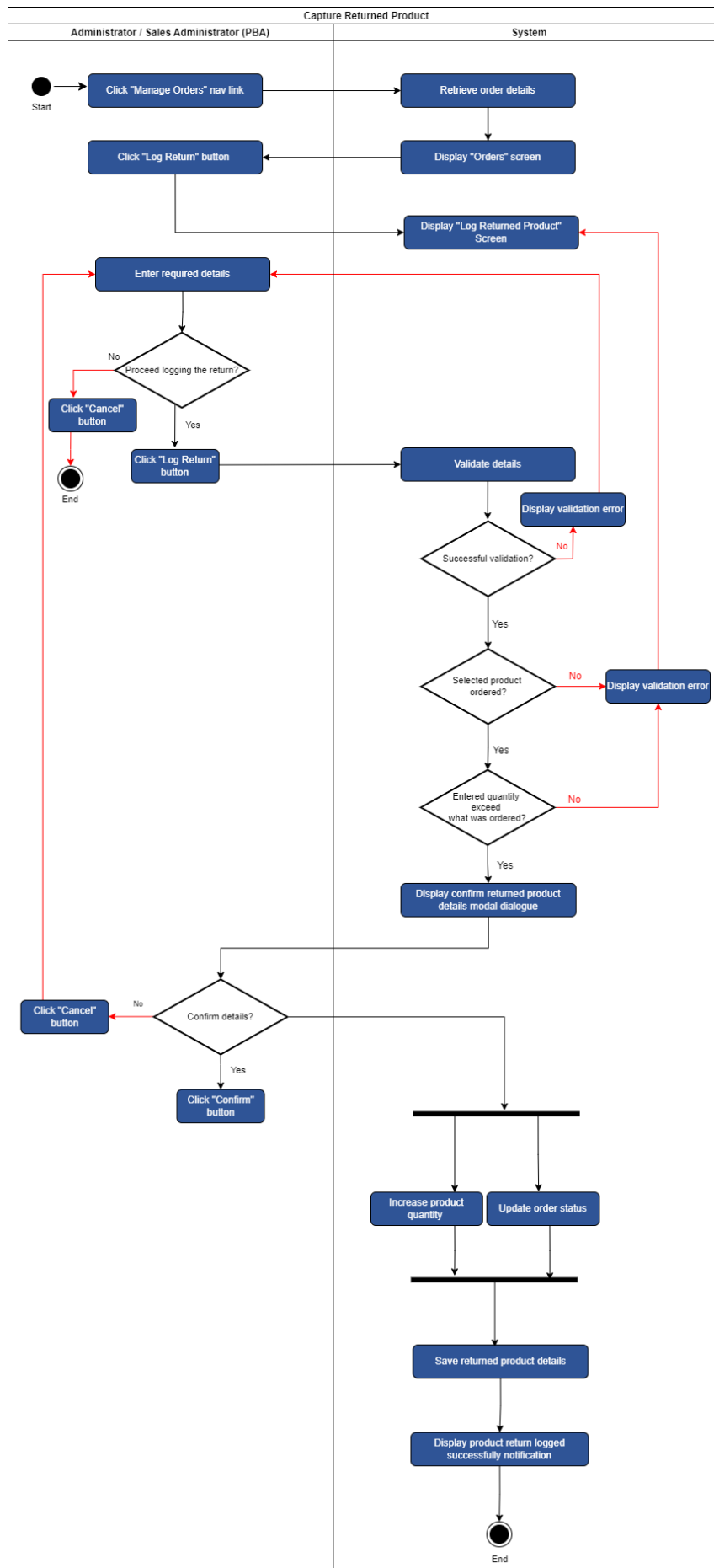


Figure 87 –Capture Returned Product use case 8.19

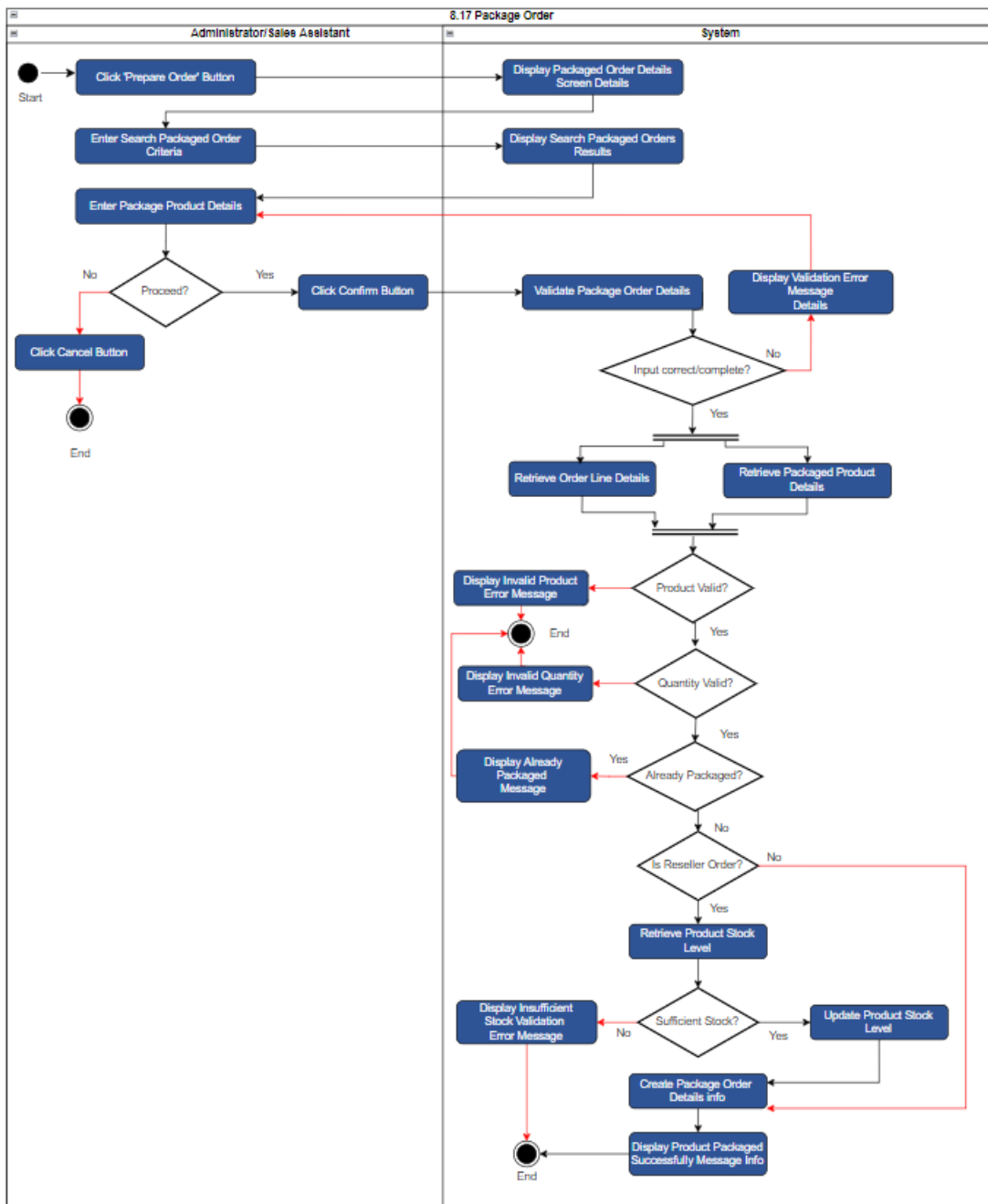


Figure 88 – Package Order use case 8.20

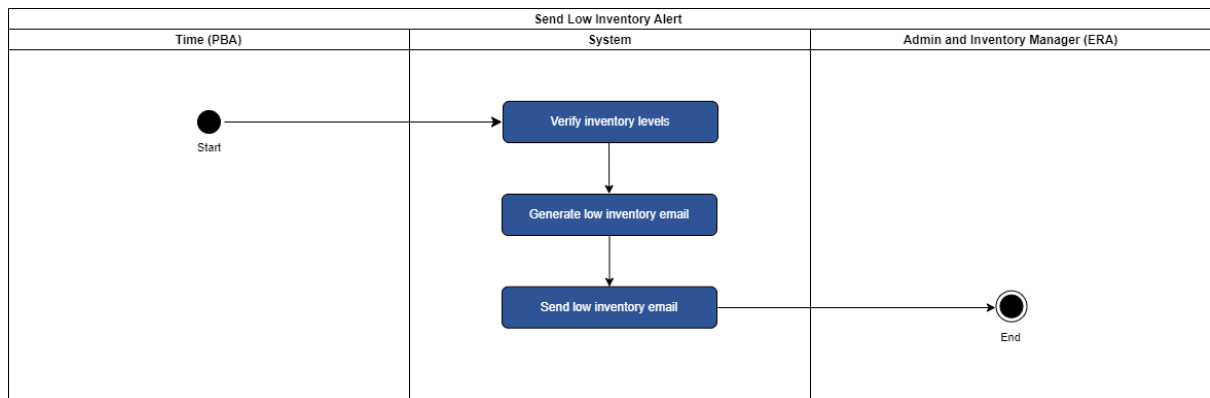


Figure 89 –Send Low Inventory Alert use case 8.21

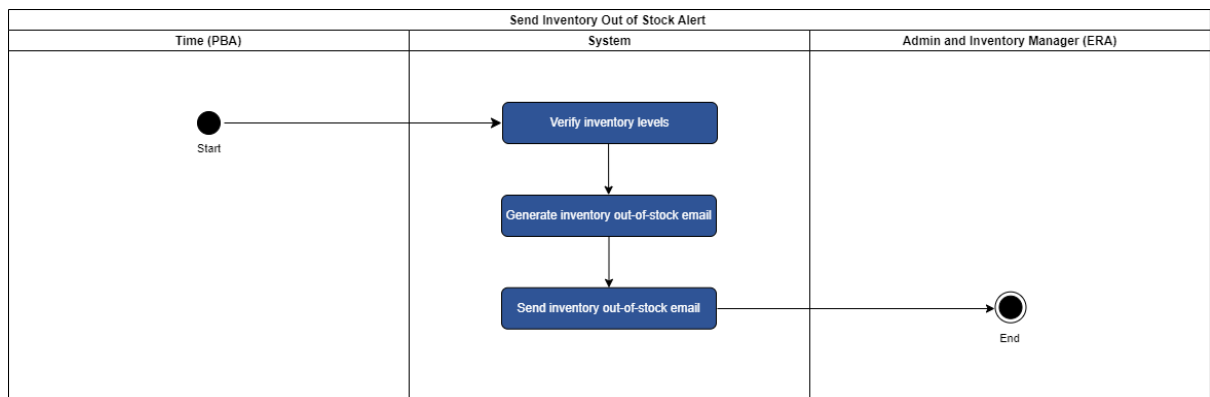


Figure 90 – Send Inventory Out of Stock Alert use case 8.22

2.9. Location Subsystem

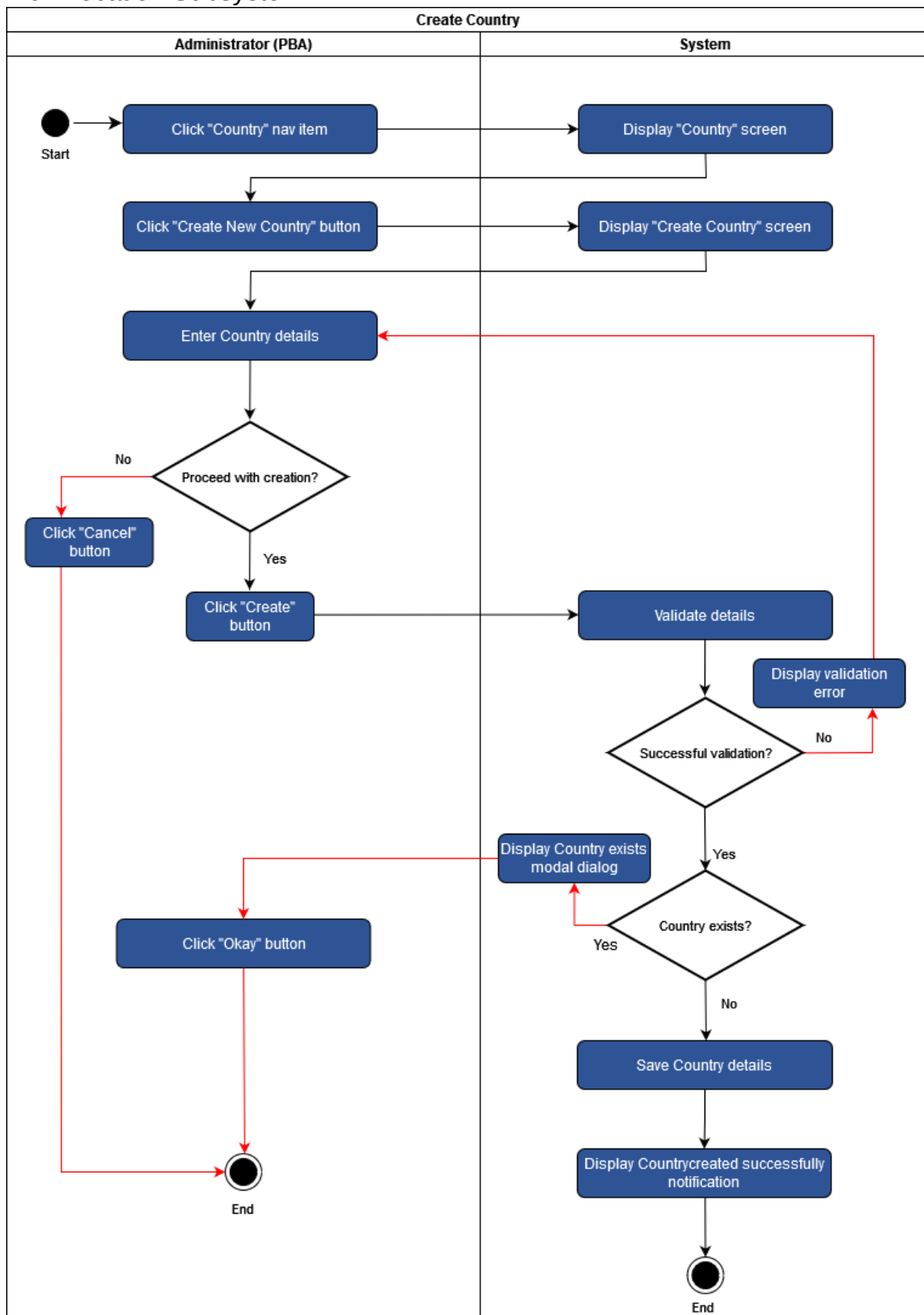


Figure 91 – Create Country use case 9.1

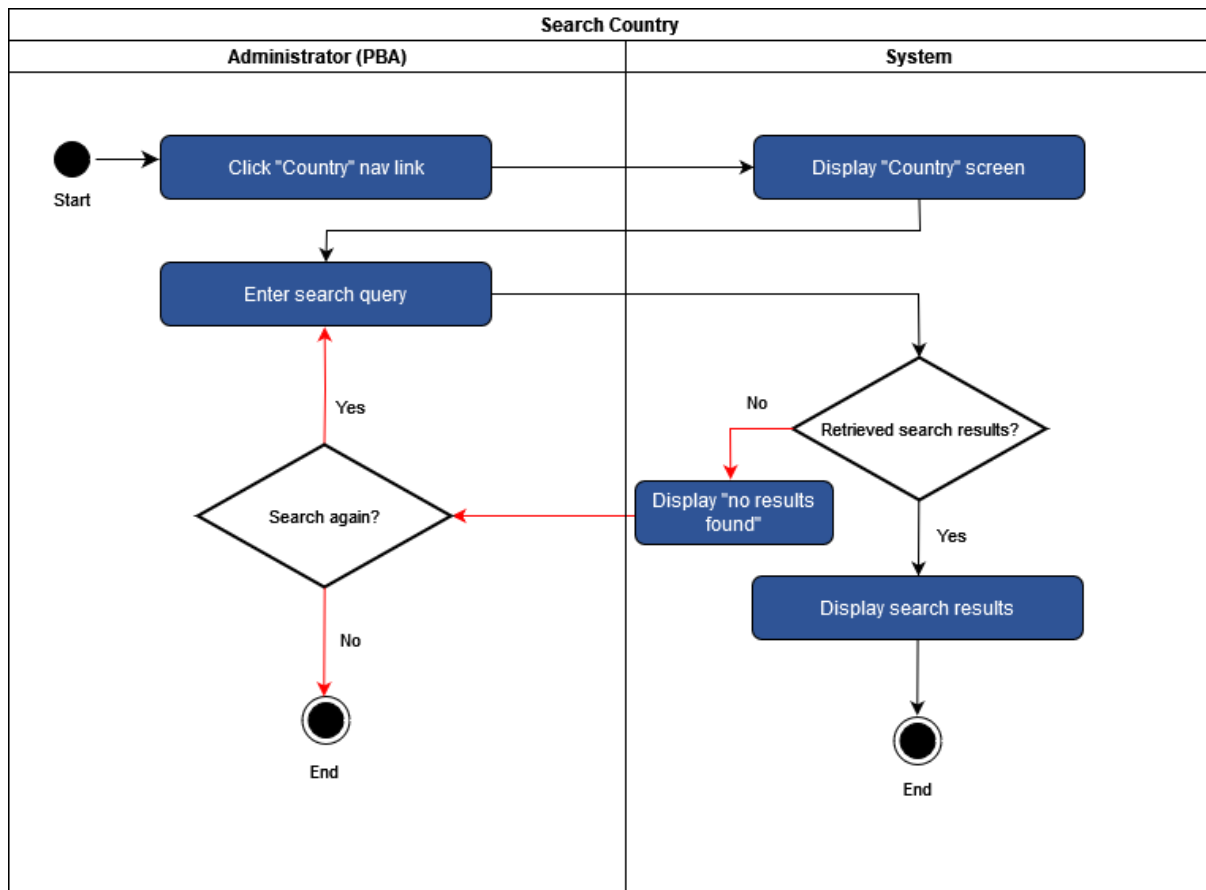


Figure 92 – Search Country use case 9.2

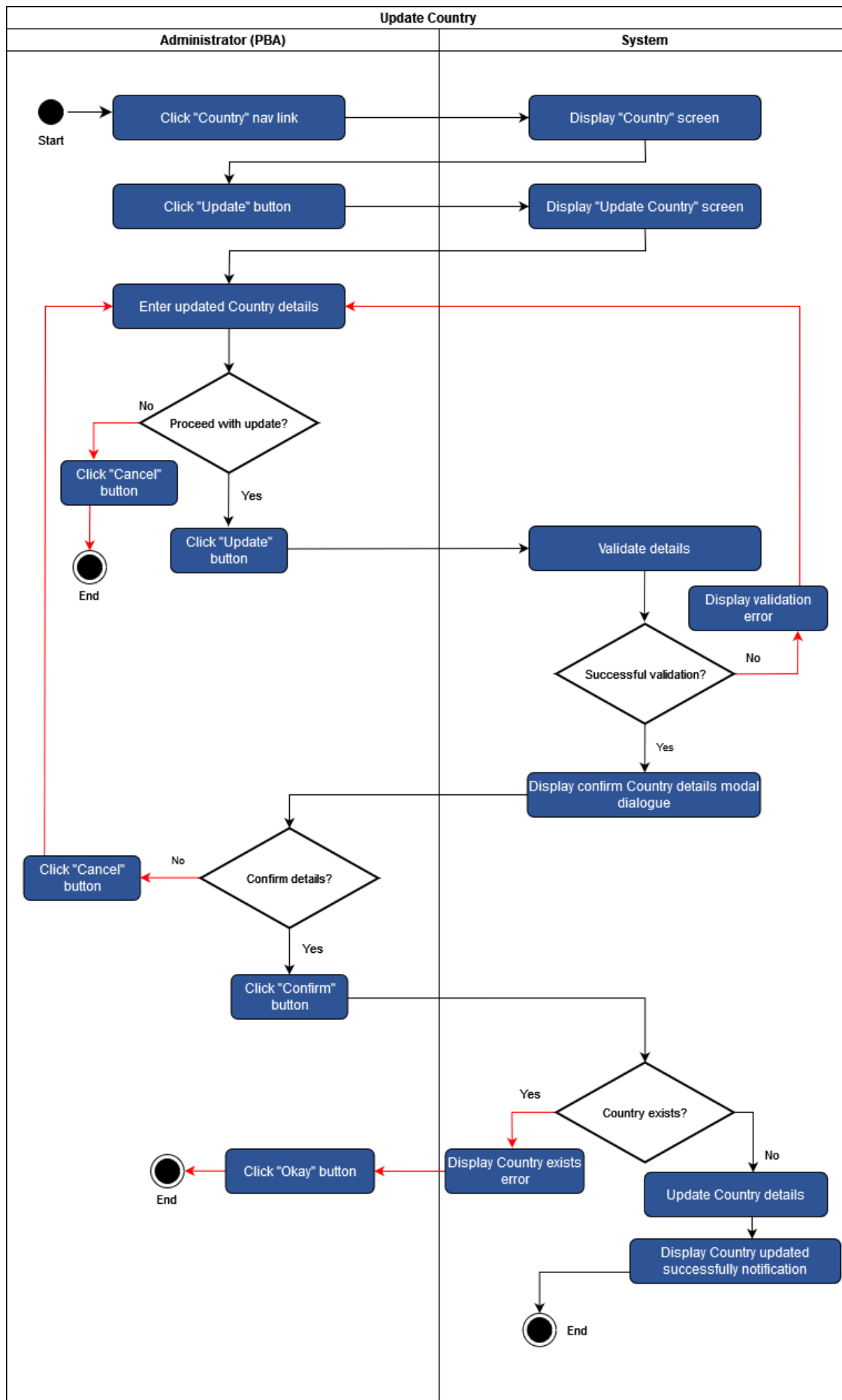


Figure 93 – Update Country use case 9.3

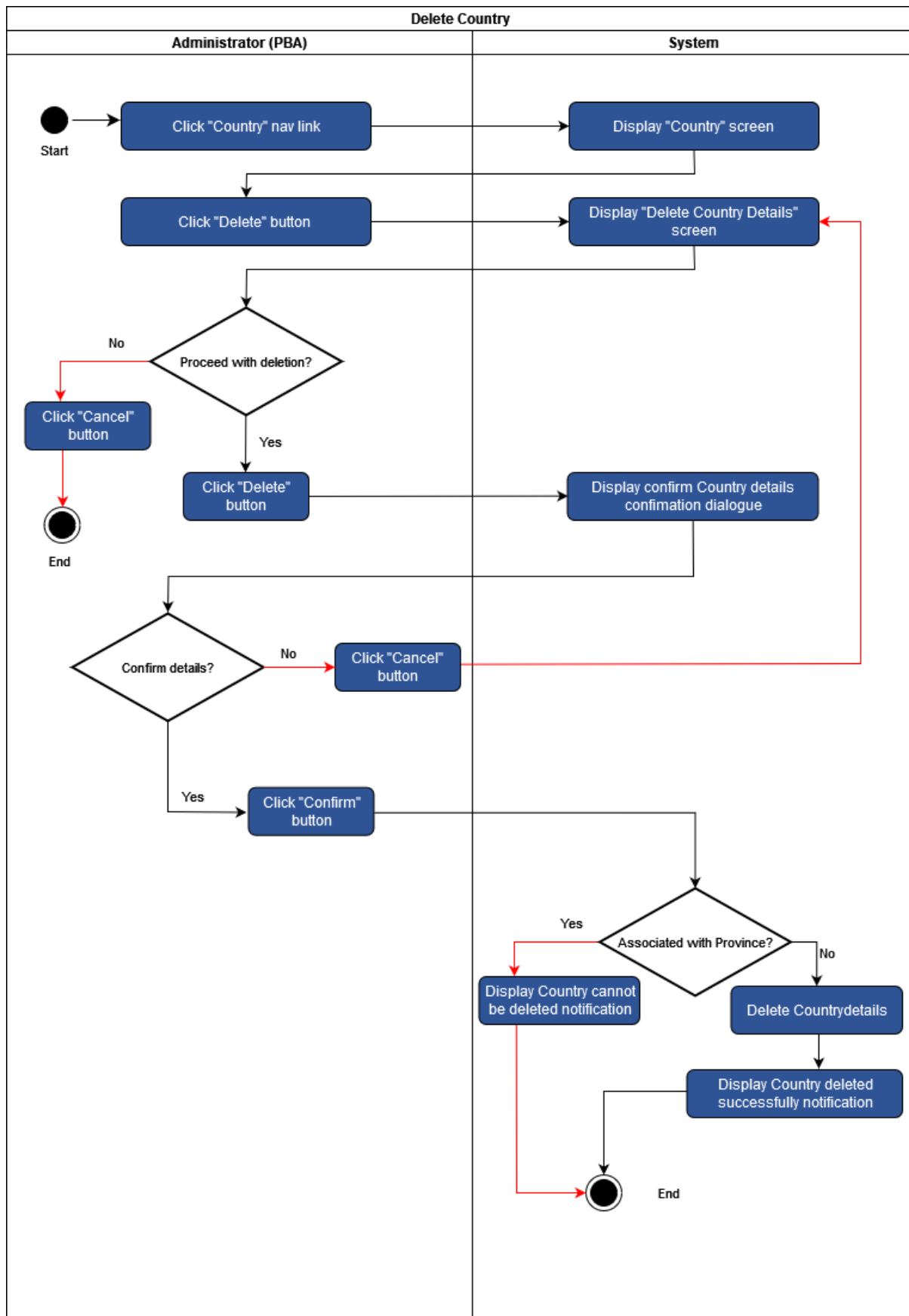


Figure 94 – Delete Country use case 9.4

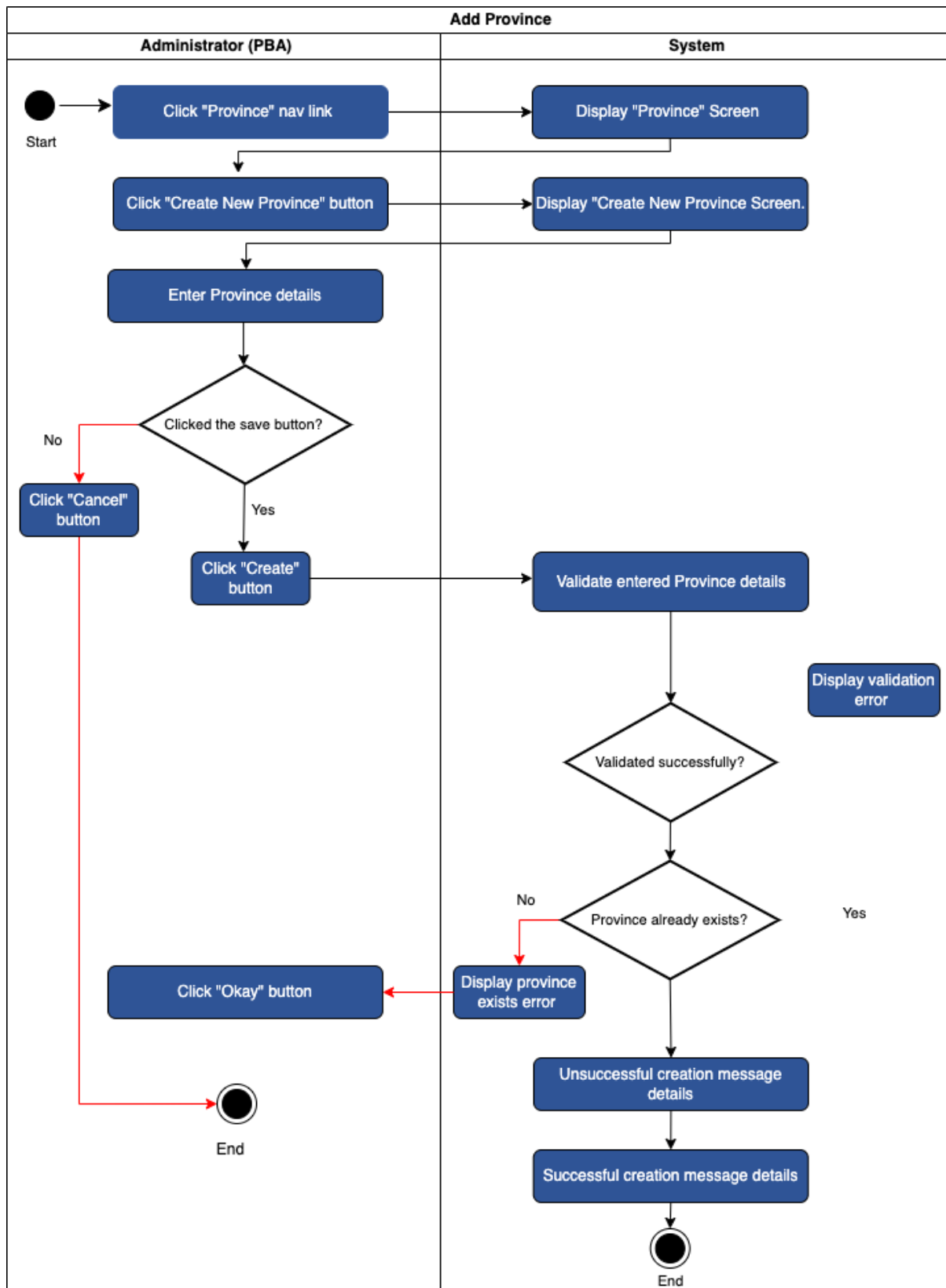


Figure 95 – Add Province use case 9.5

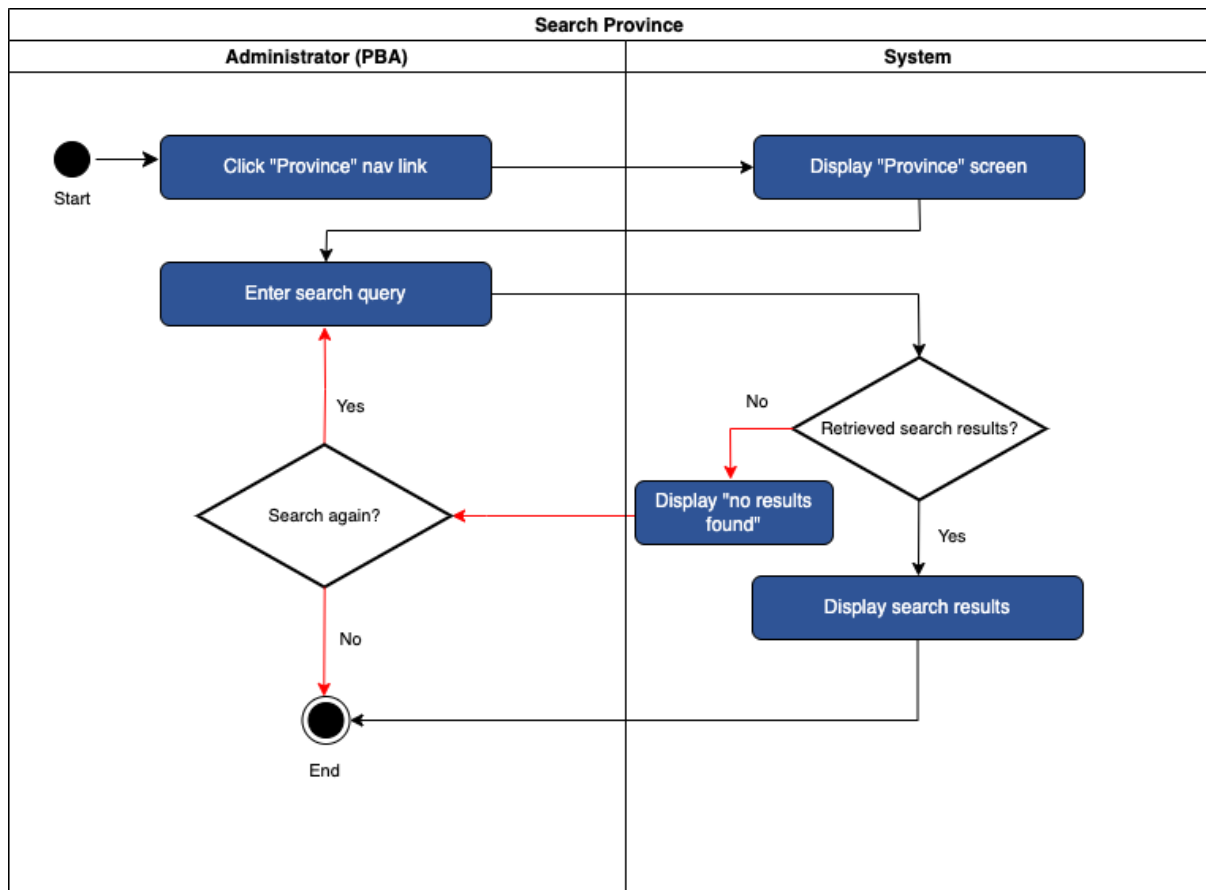


Figure 96 – Search Province use case 9.6

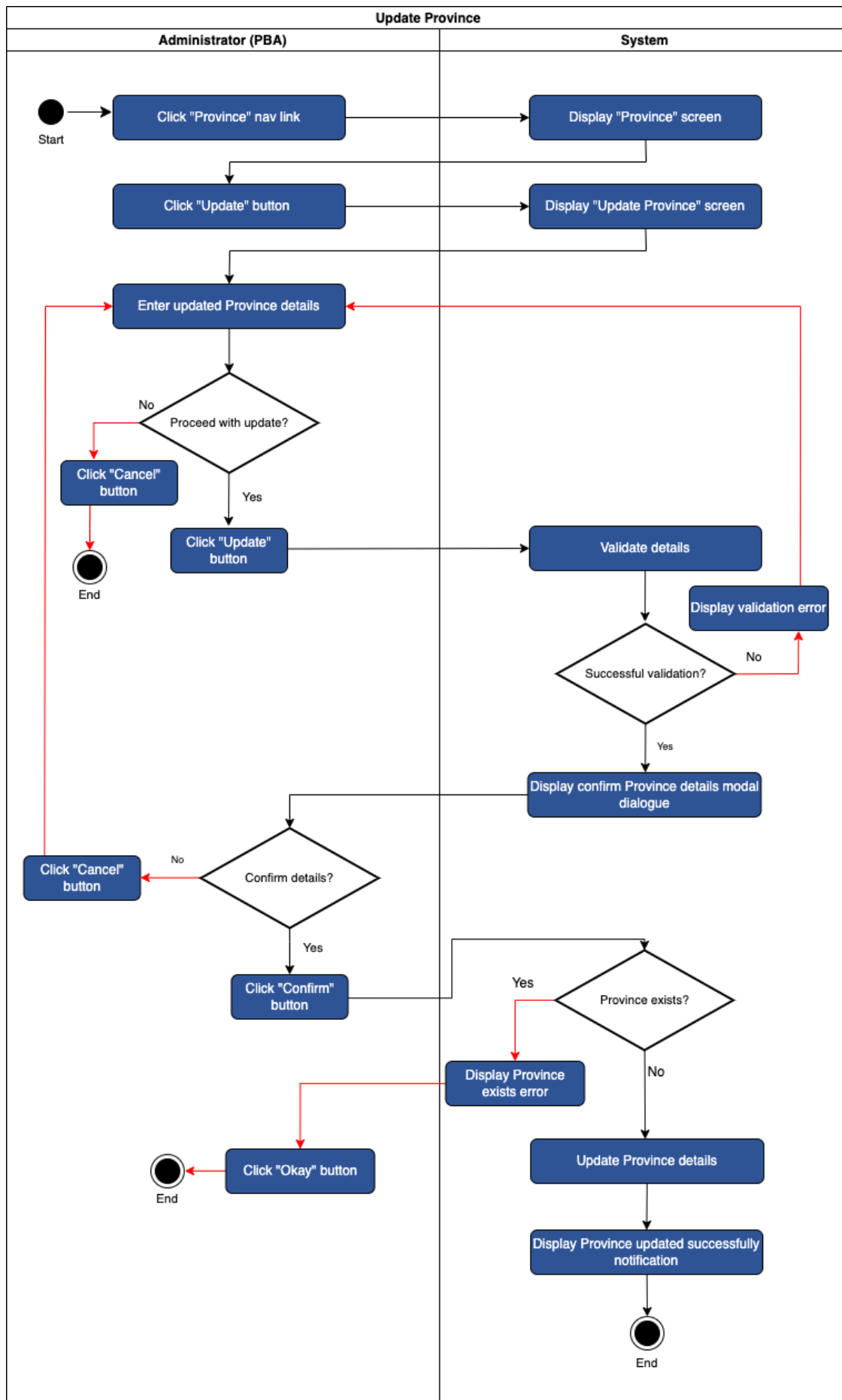


Figure 97 – Update Province use case 9.7

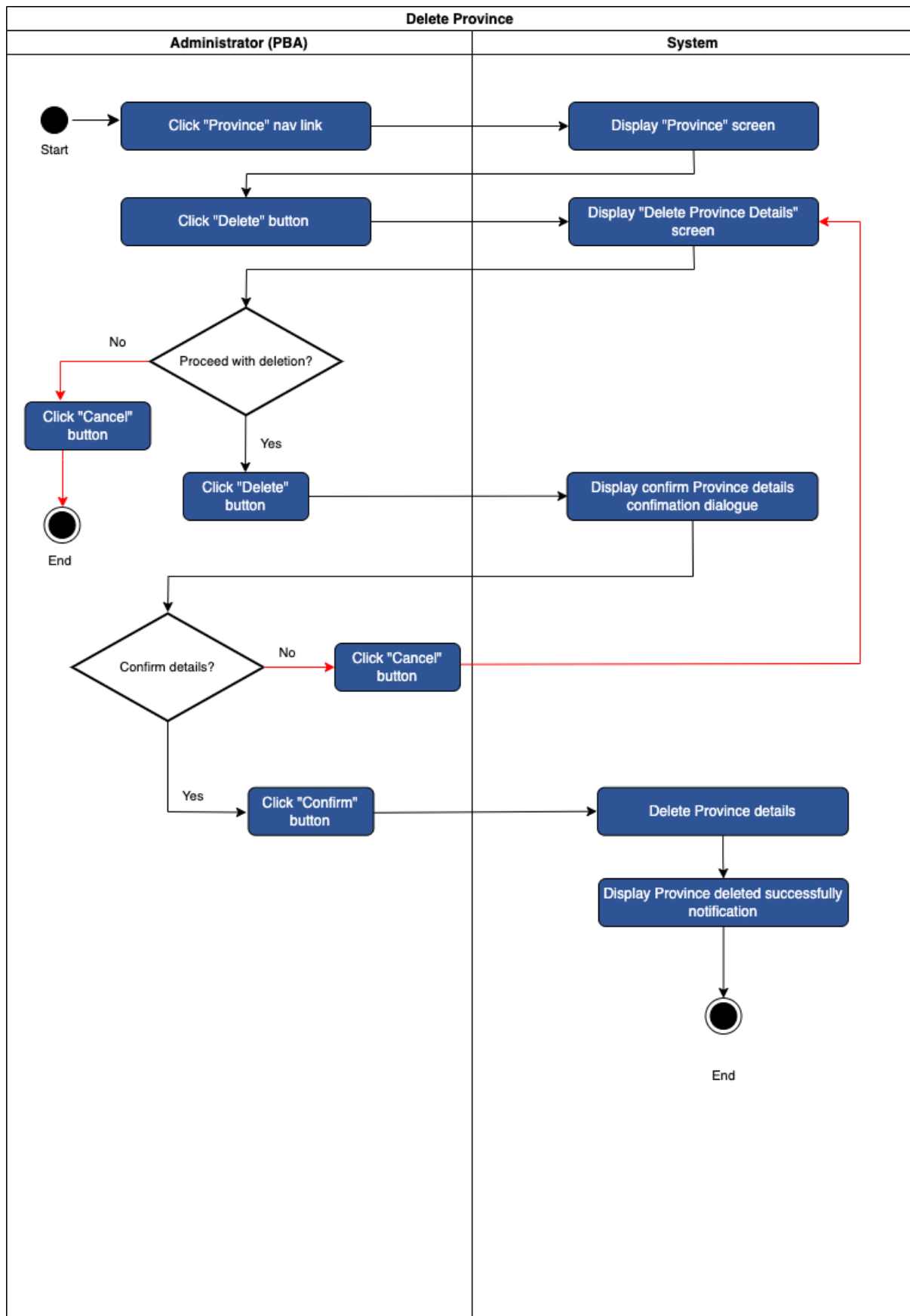


Figure 98 – Delete Province use case 9.8

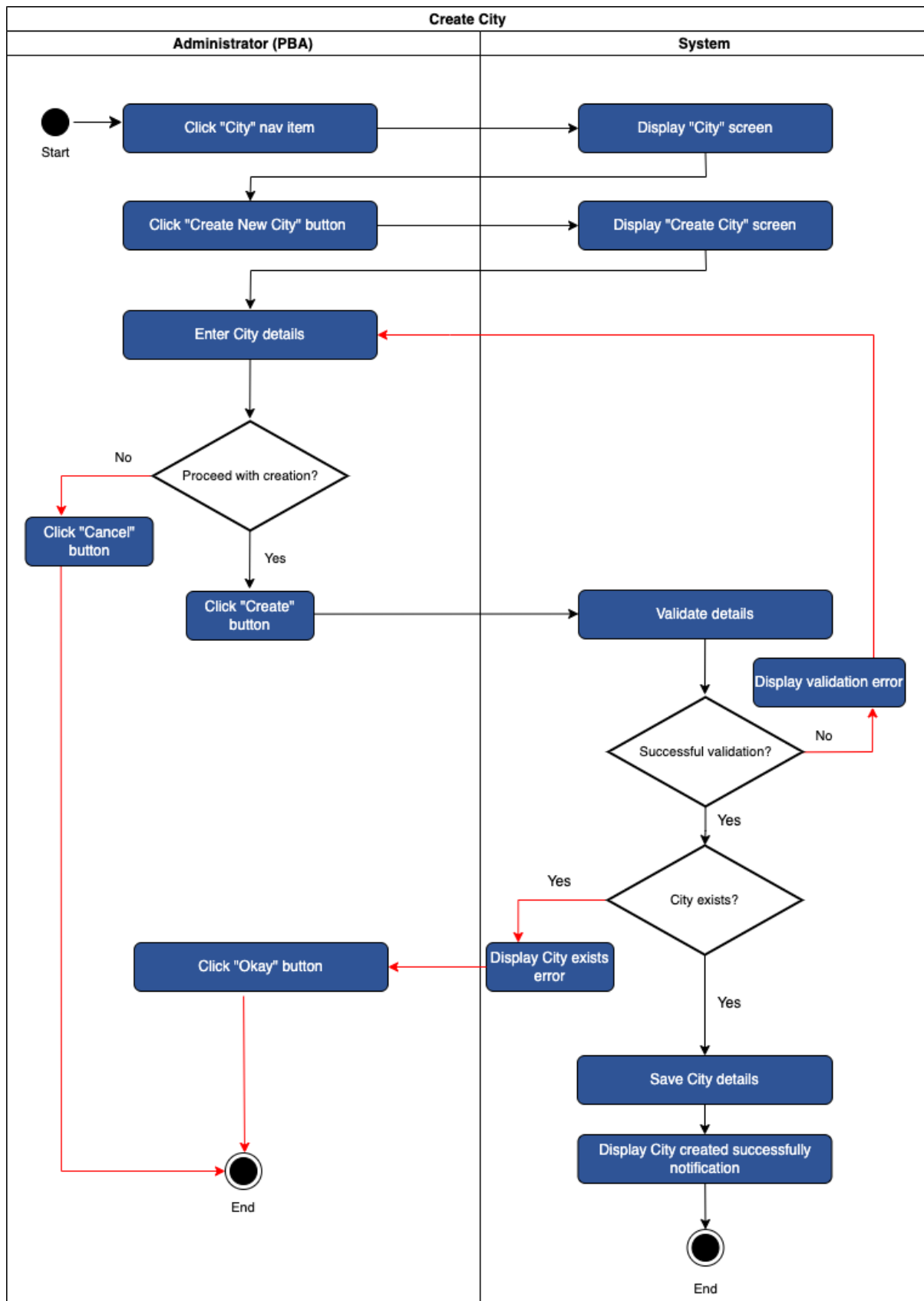


Figure 99 –Create City use case 9.9

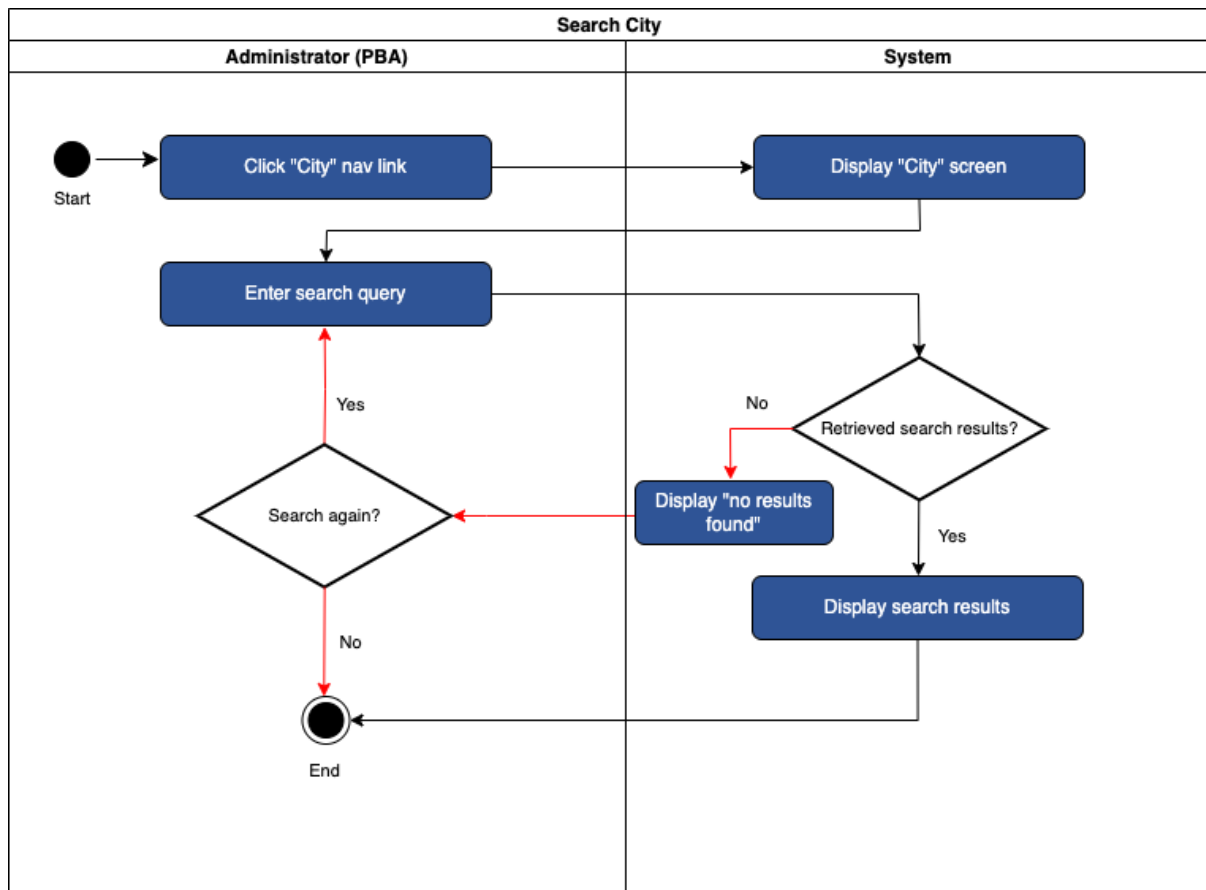


Figure 100 – Search City use case 9.10

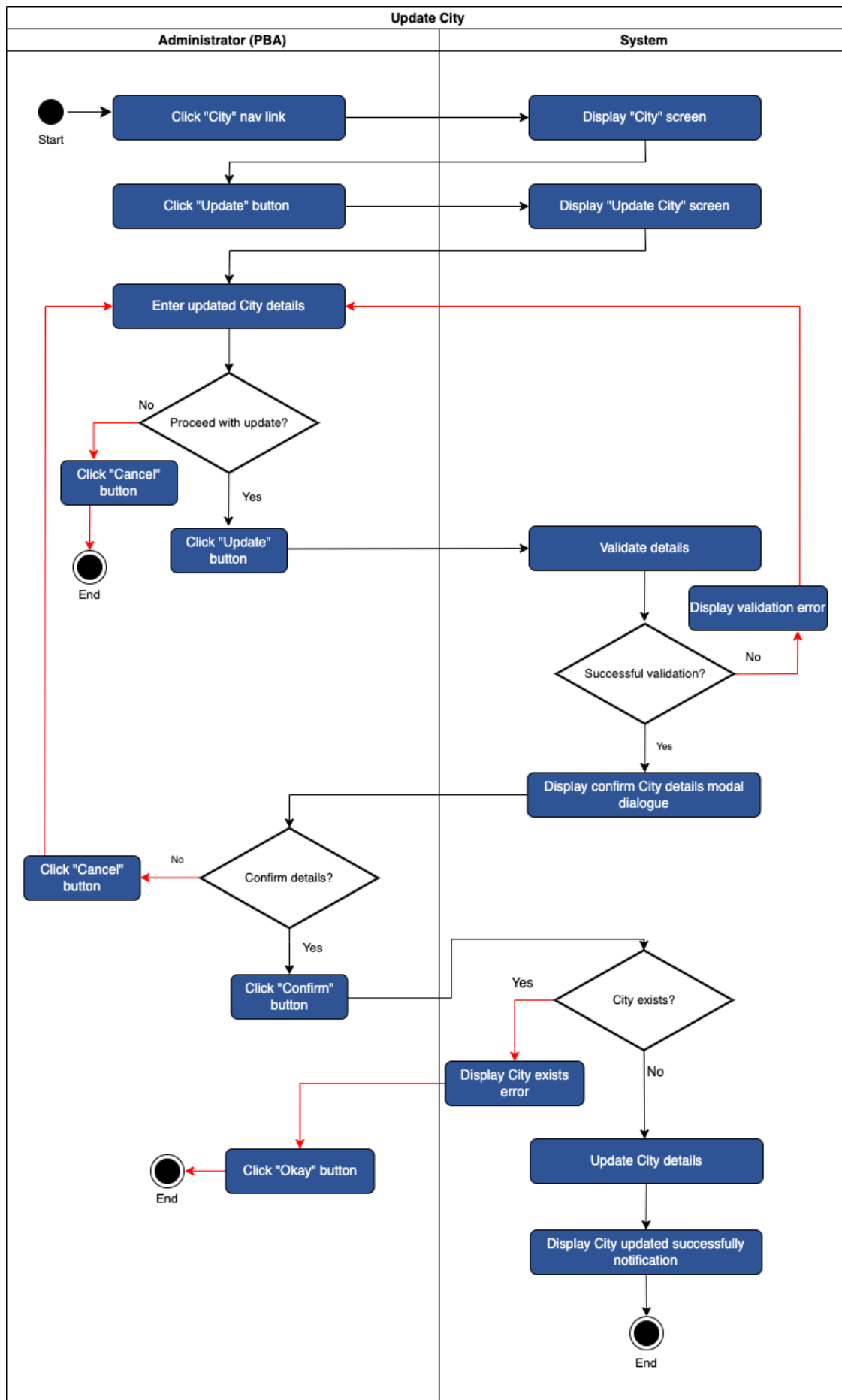


Figure 101– Update City use case 9.11

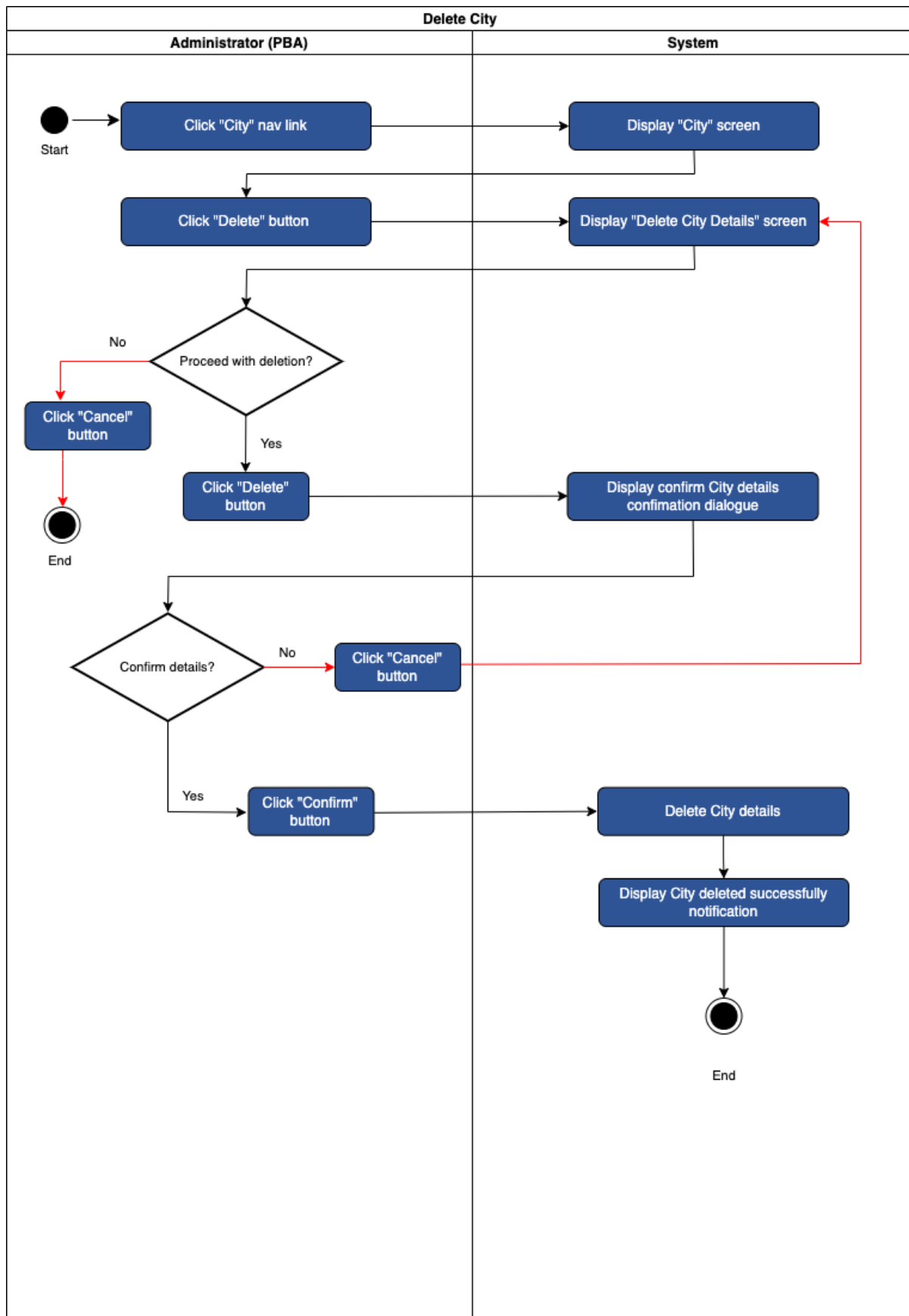


Figure 102– Delete City use case 9.12

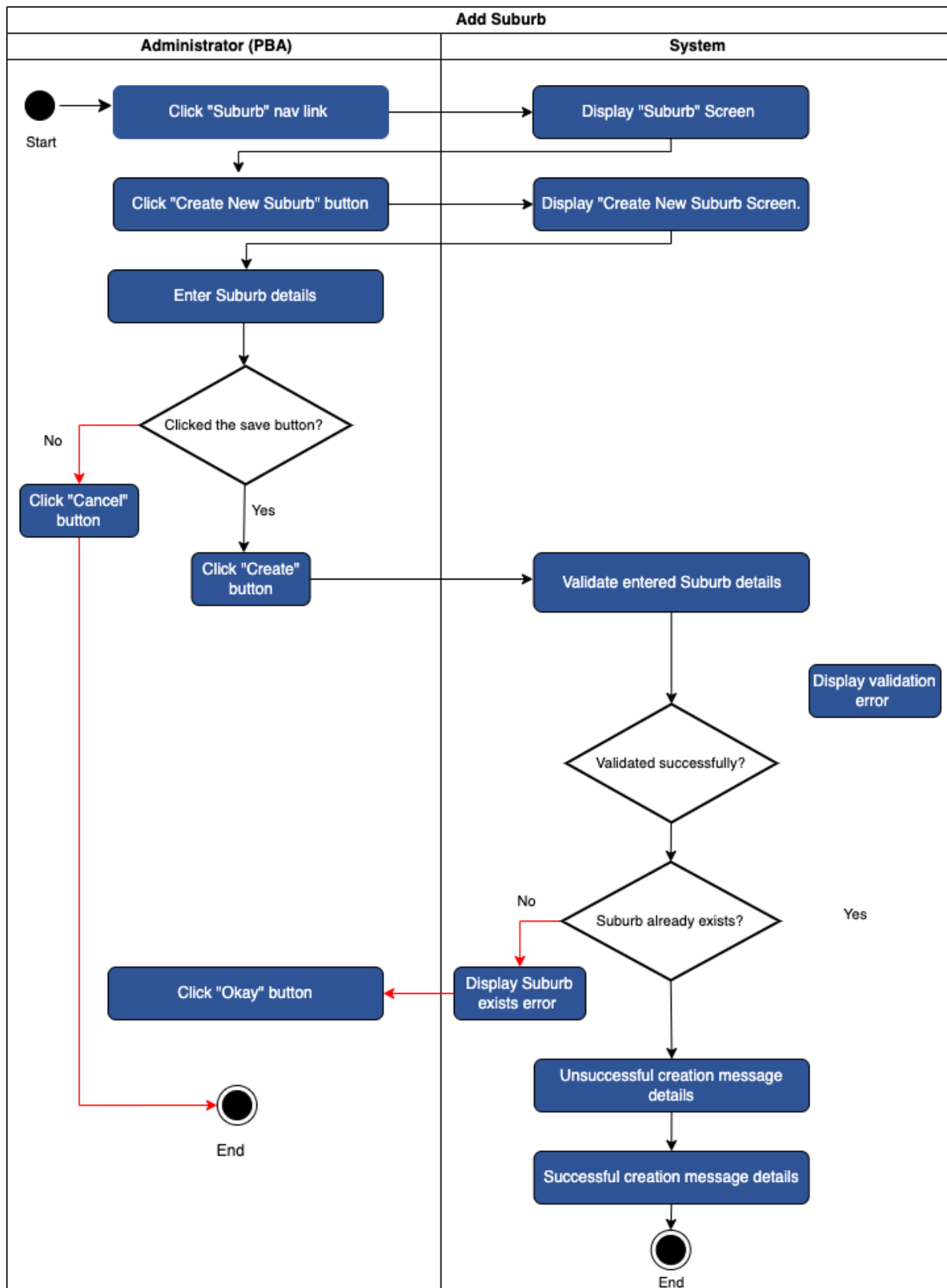


Figure 103 – Add Suburb use case 9.13

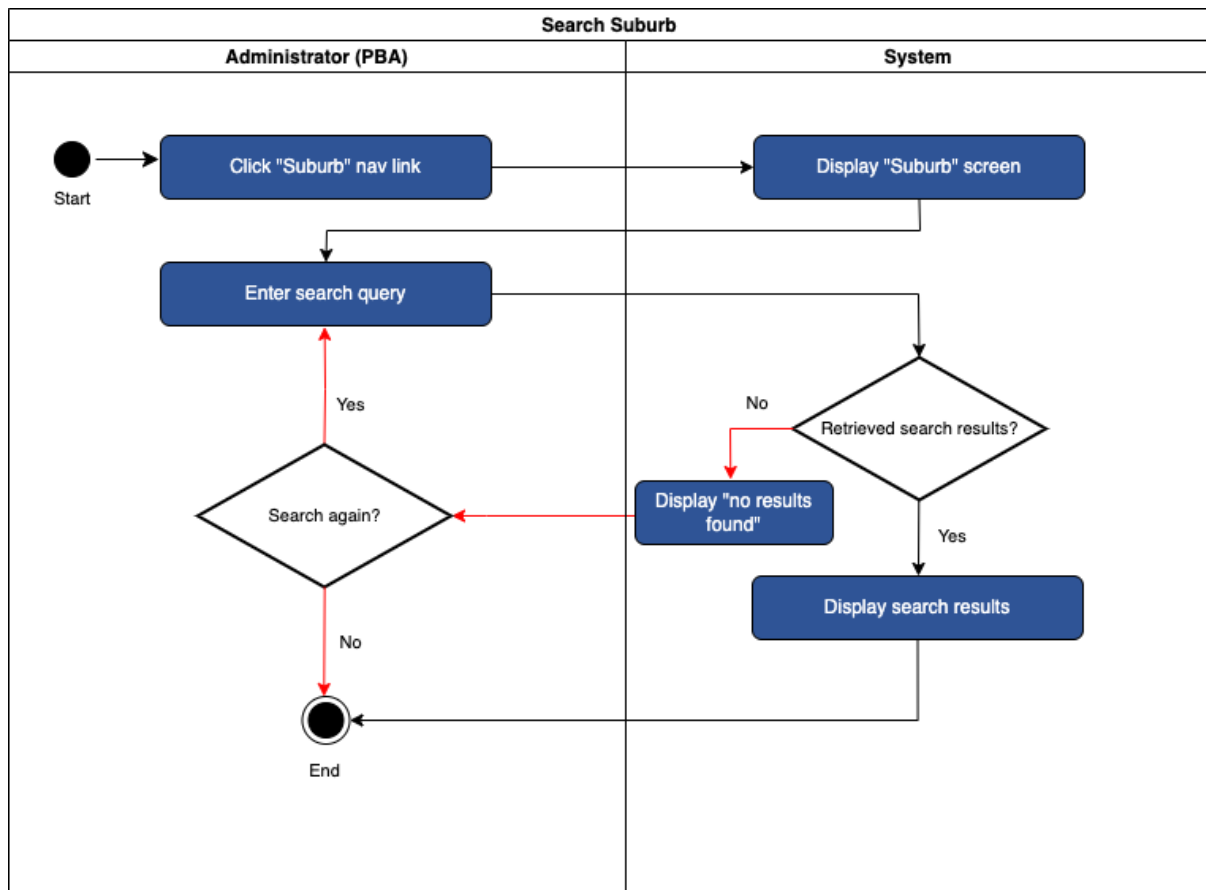


Figure 104 –Search Suburb use case 9.14

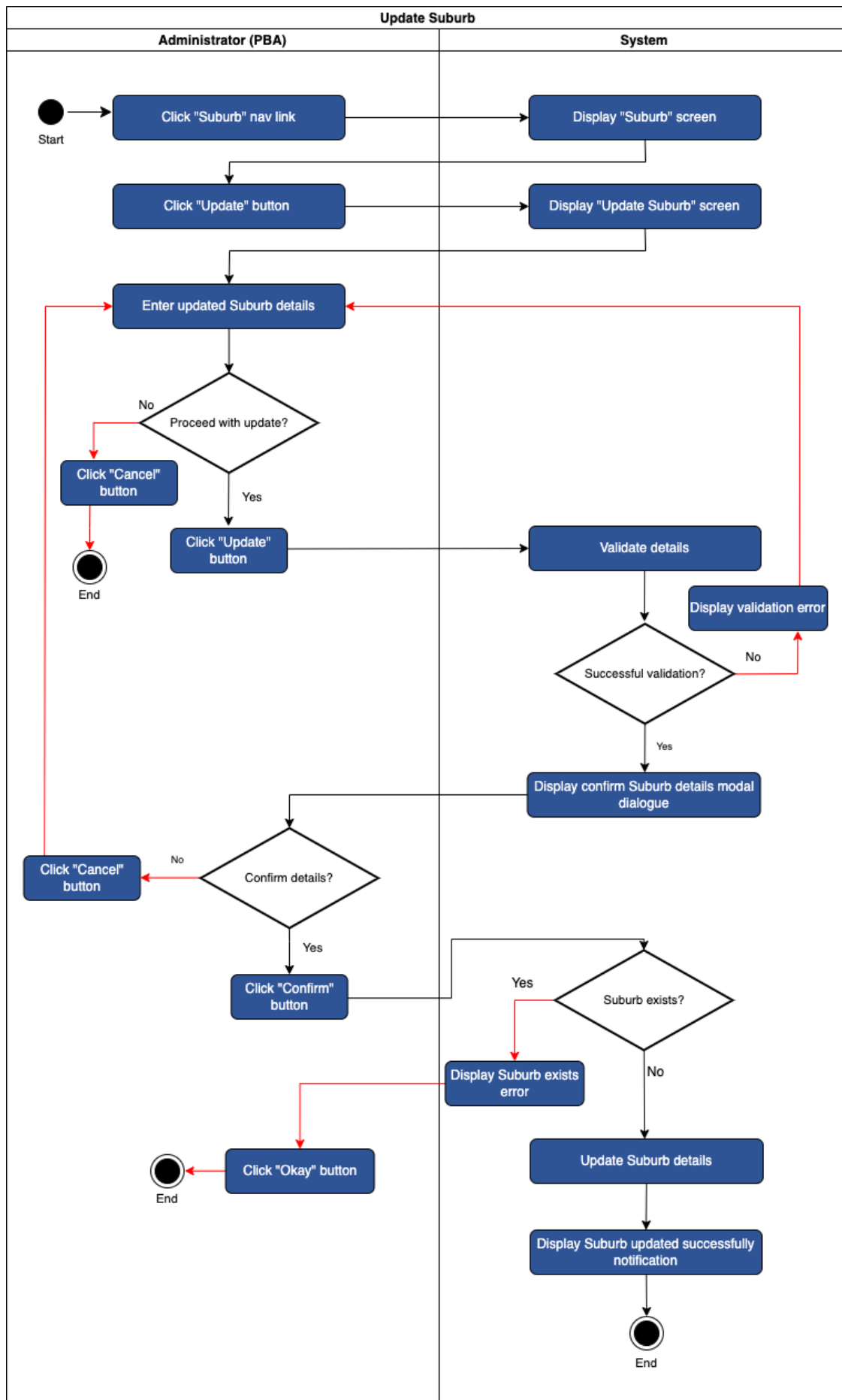


Figure 105 –Update Suburb use case 9.15

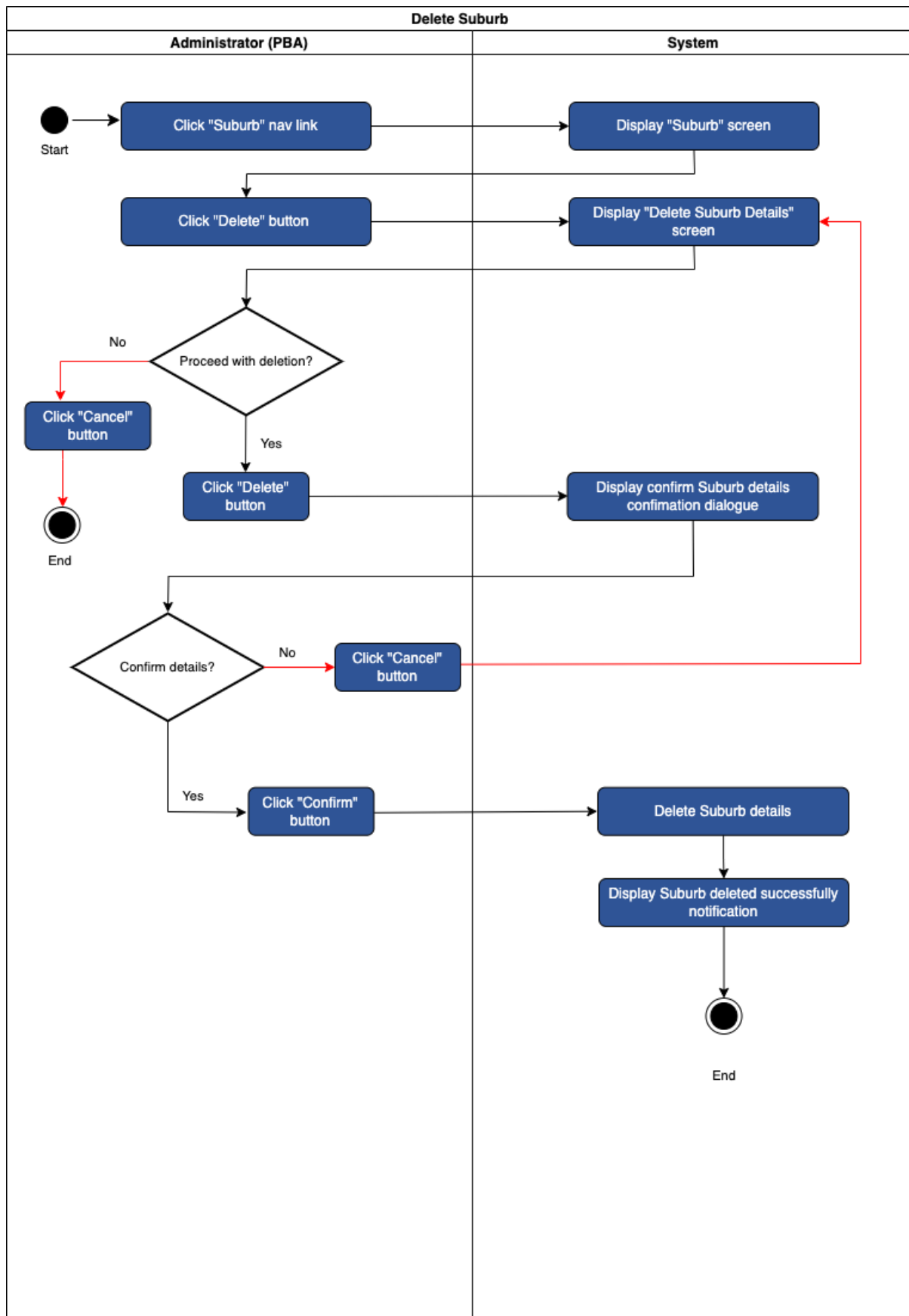


Figure 106 –Delete Suburb use case 9.16

2.10. Reporting Subsystem

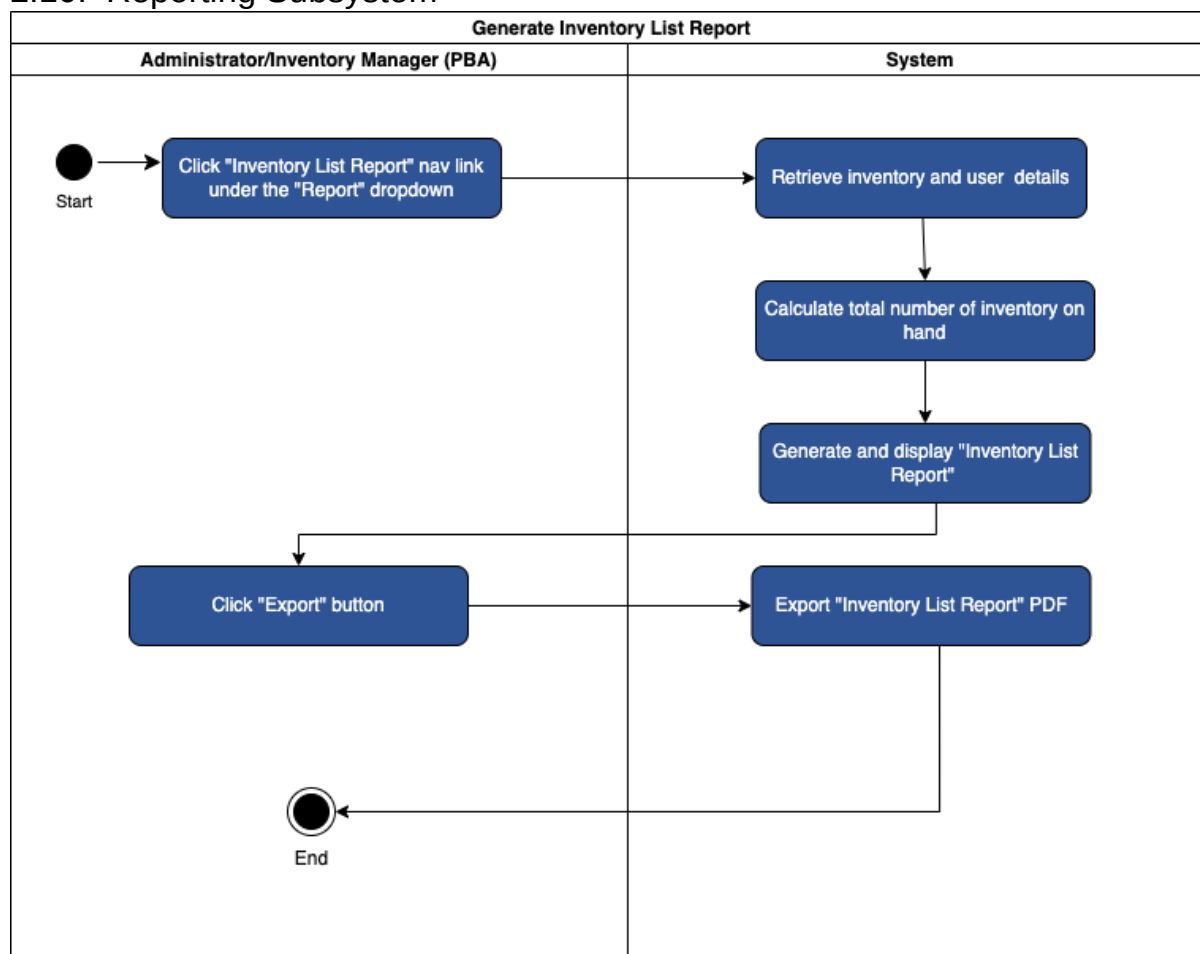


Figure 107 - Generate Inventory List Report use case 10.1

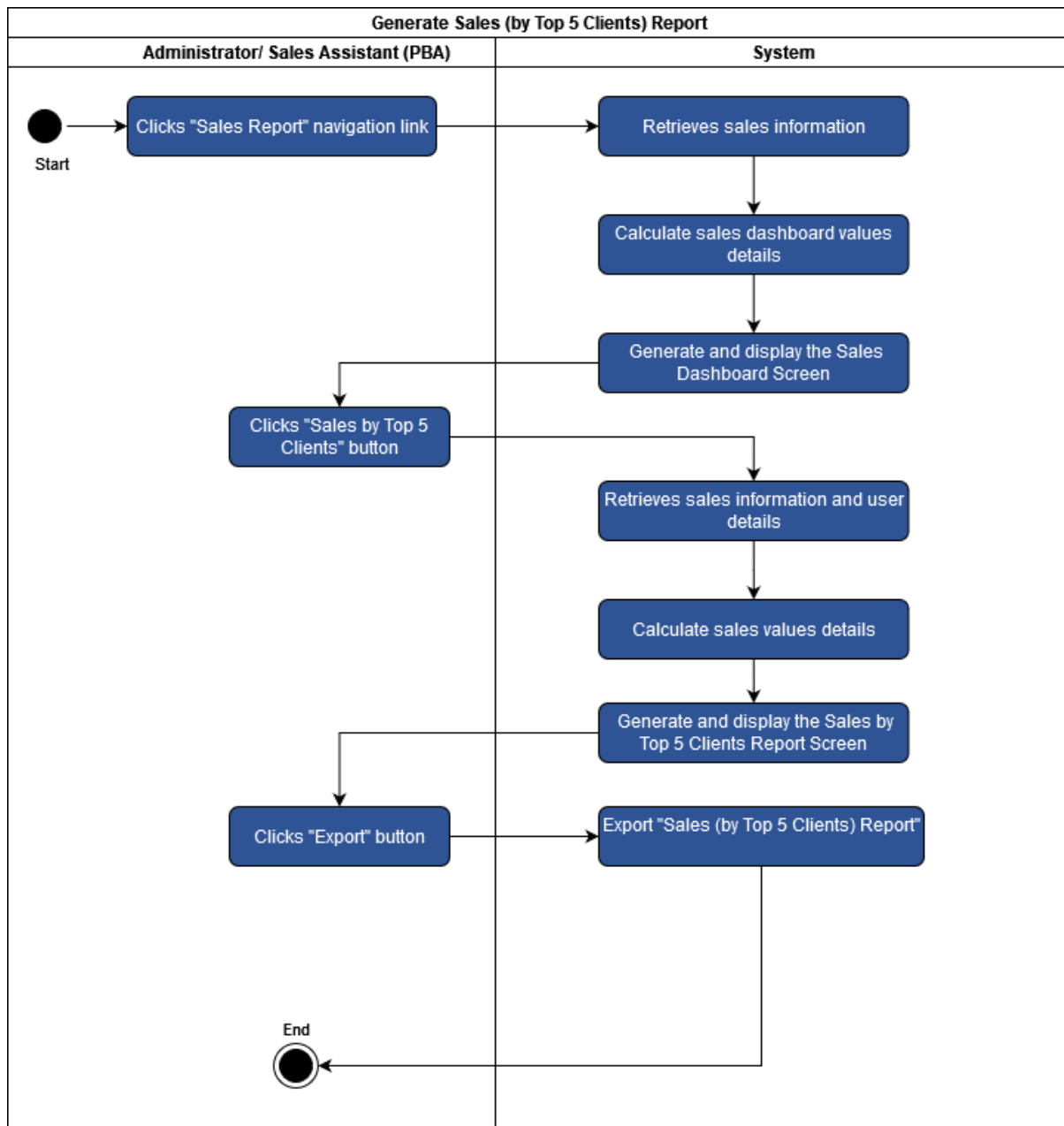


Figure 108 - Generate Sales (by Top 5 Clients) Report use case 10.2

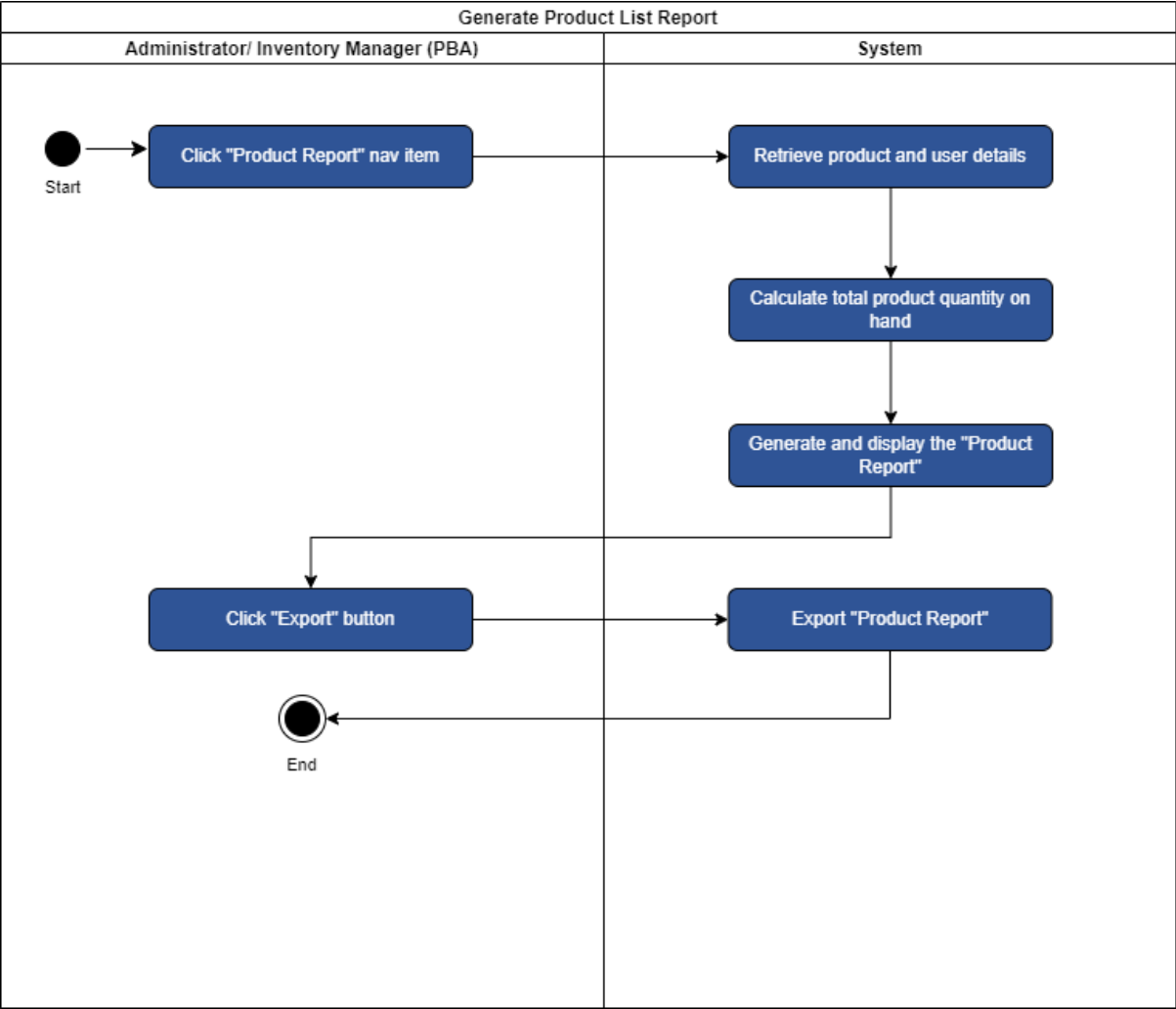


Figure 109 - Generate Product List Report use case 10.3

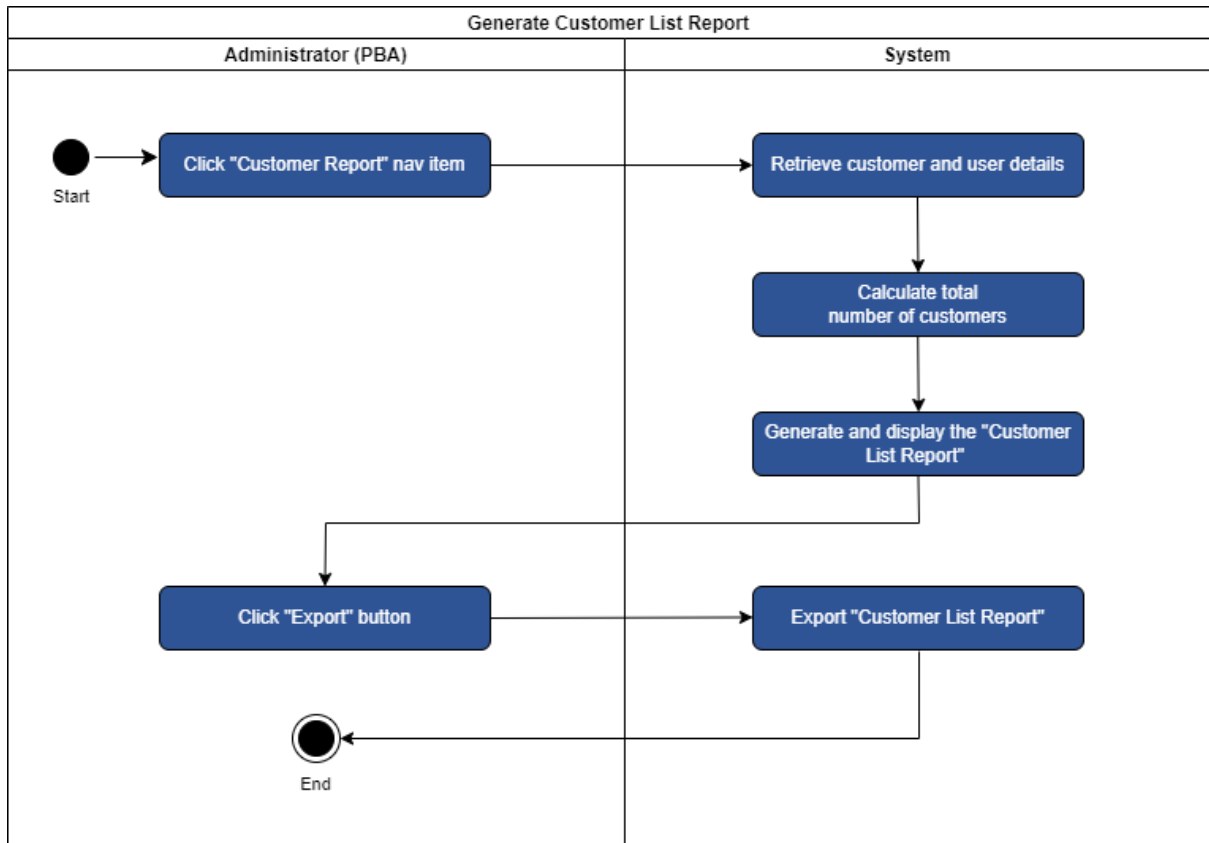


Figure 110 - Generate Customer List Report use case 10.4

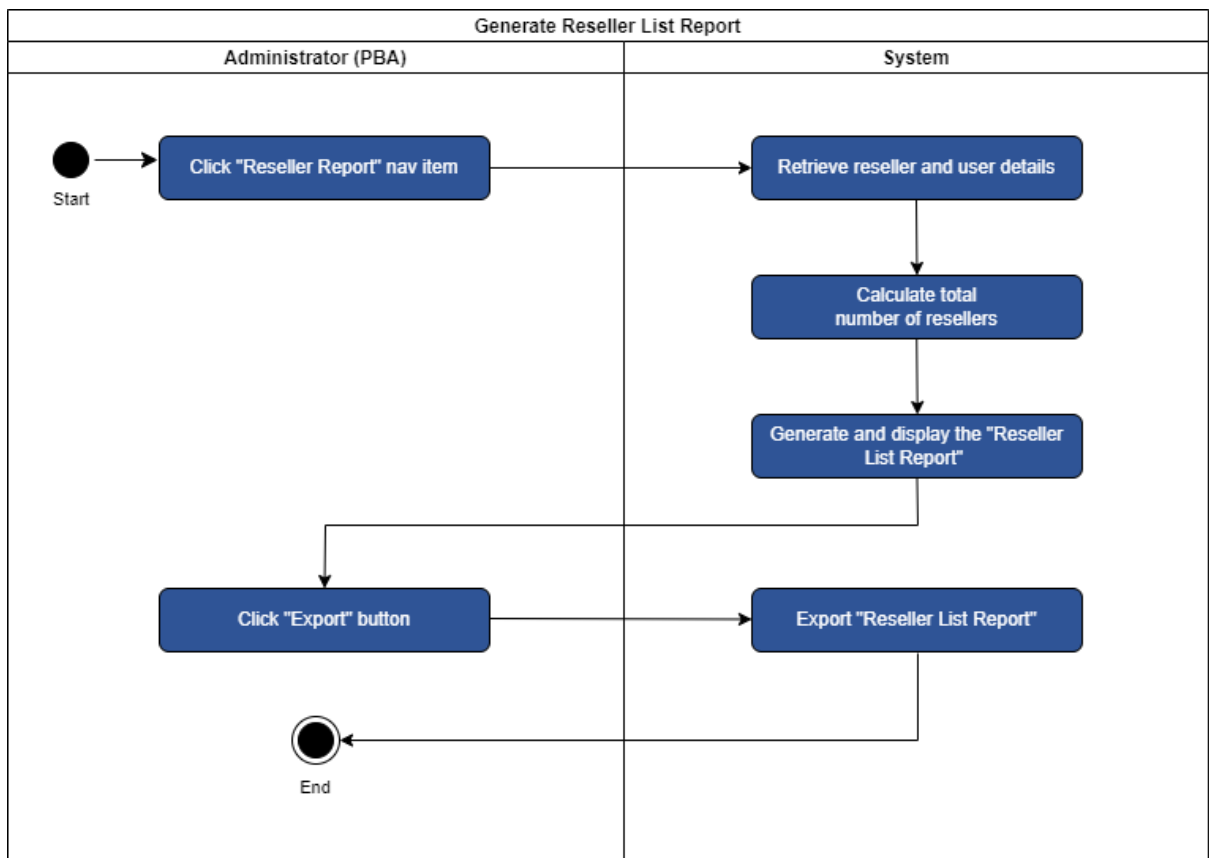


Figure 111 - Generate Reseller List Report use case 10.5

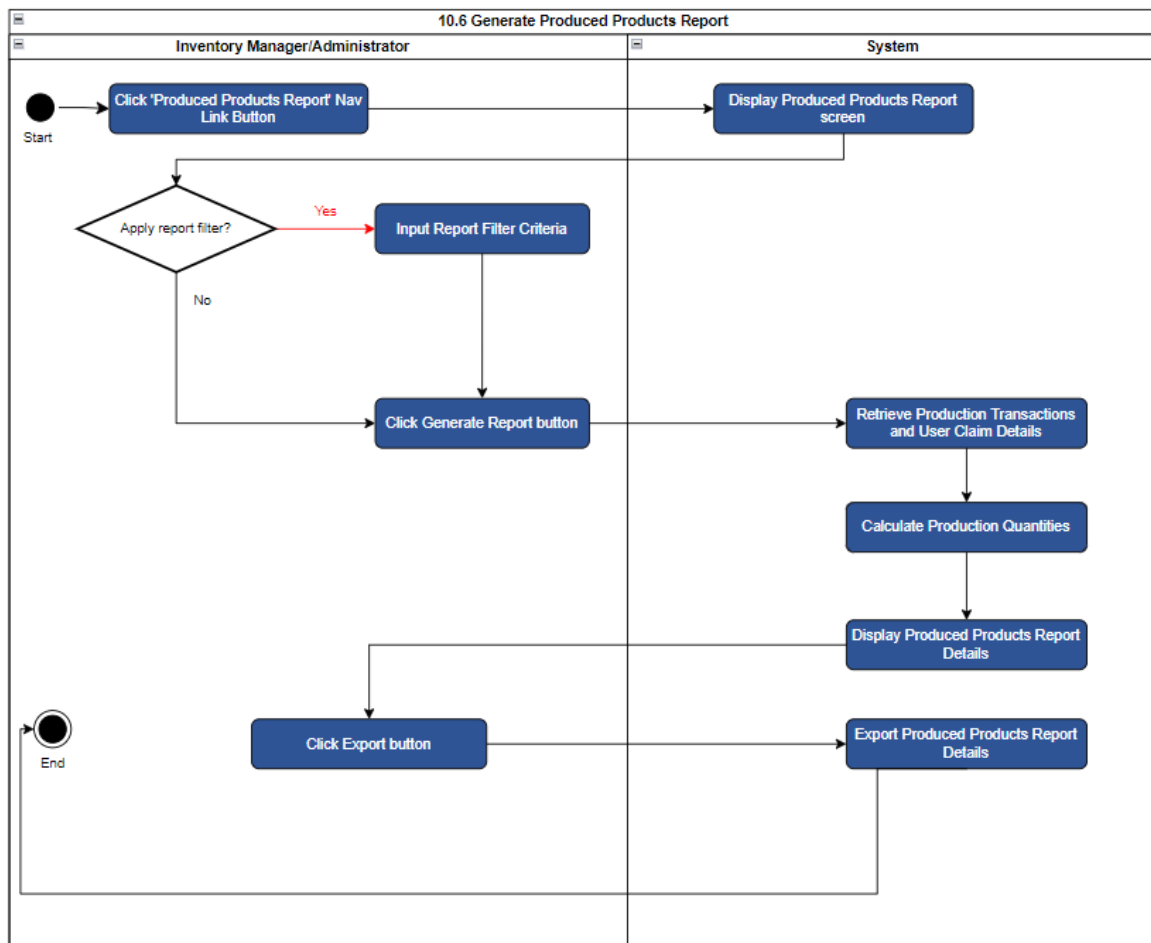


Figure 112 - Generate Produced Products Report use case 10.6

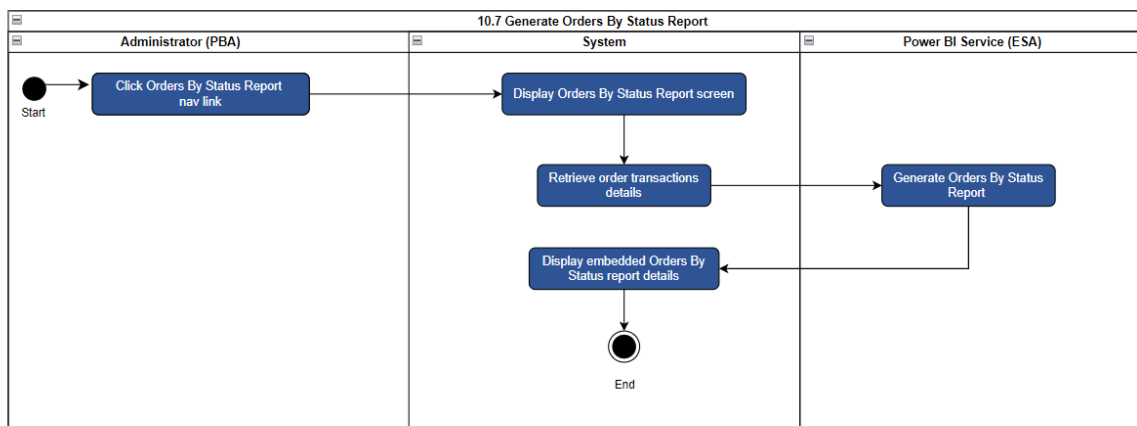


Figure 113 - Generate Order (by Status) Report use case 10.7

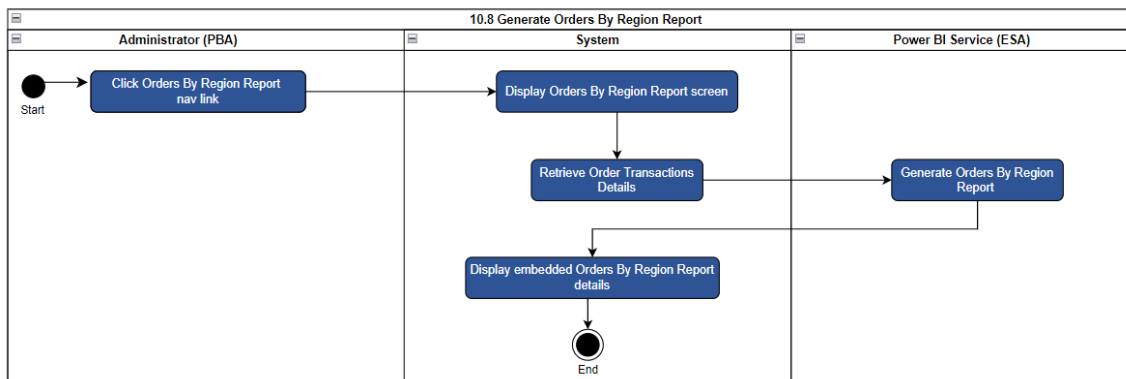


Figure 114 - Generate Order (by Region) Report use case 10.8

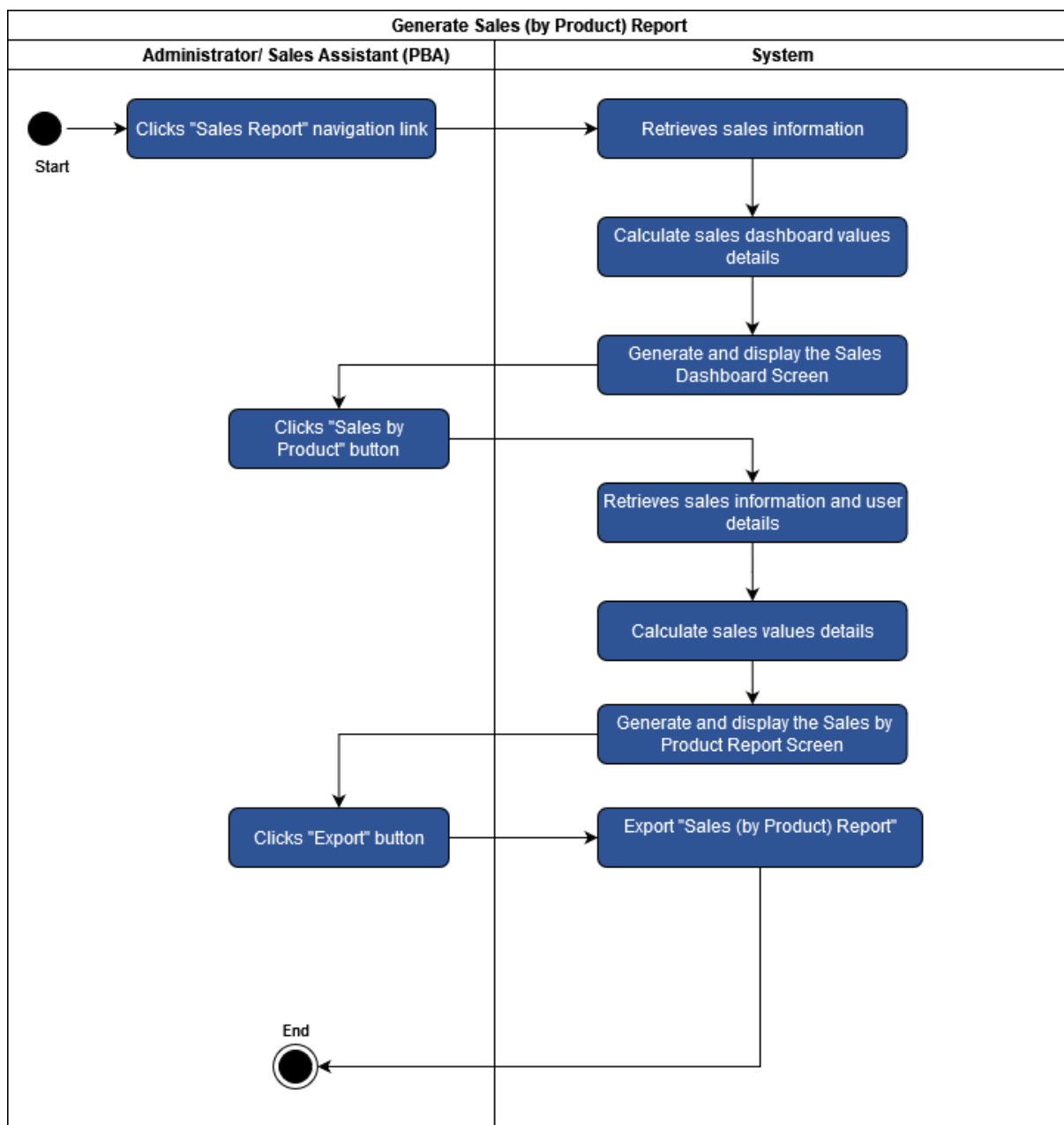


Figure 115 - Generate Sales (by Product) Report use case 10.9

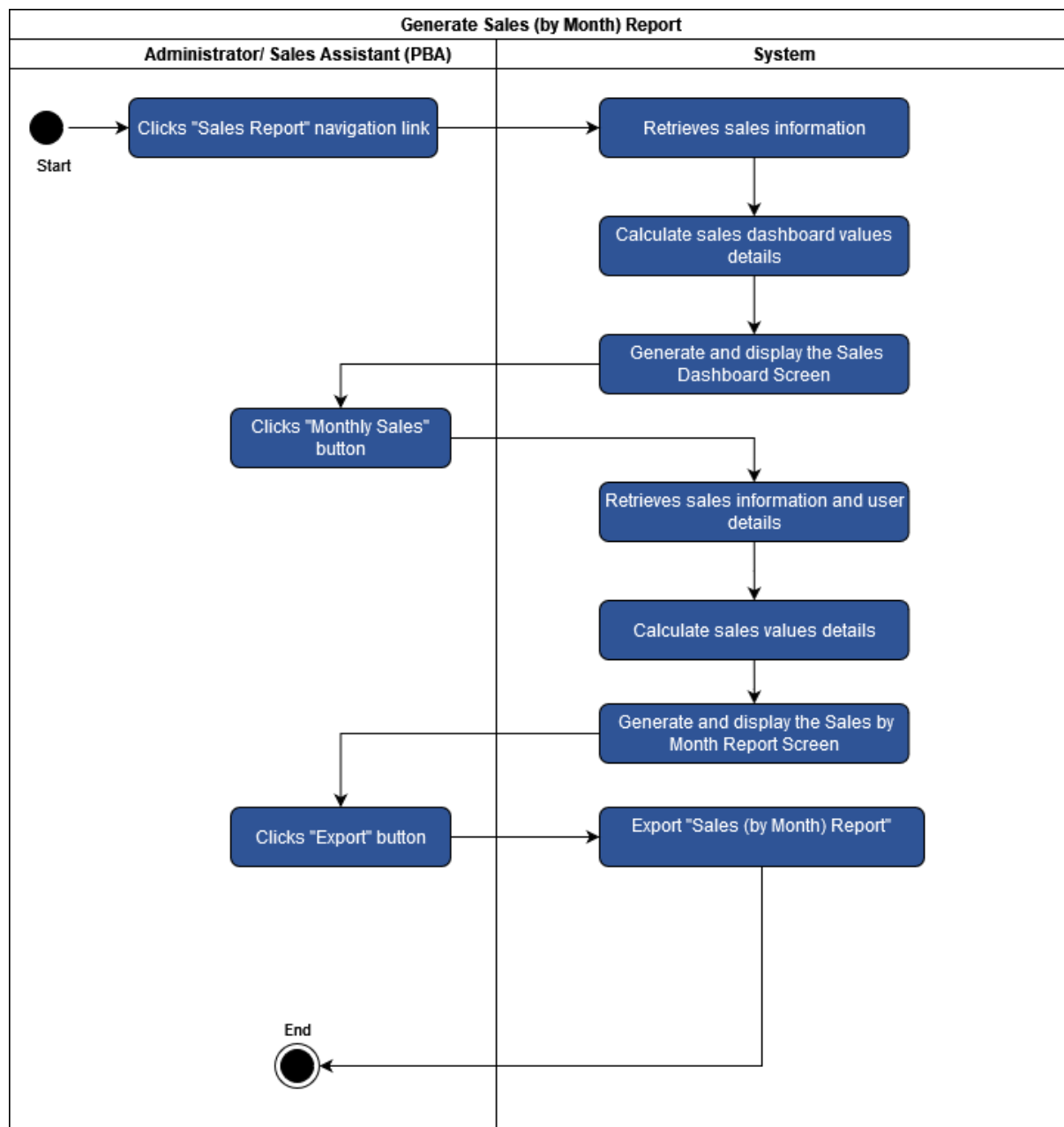


Figure 116 - Generate Sales (by Month) Report use case 10.10

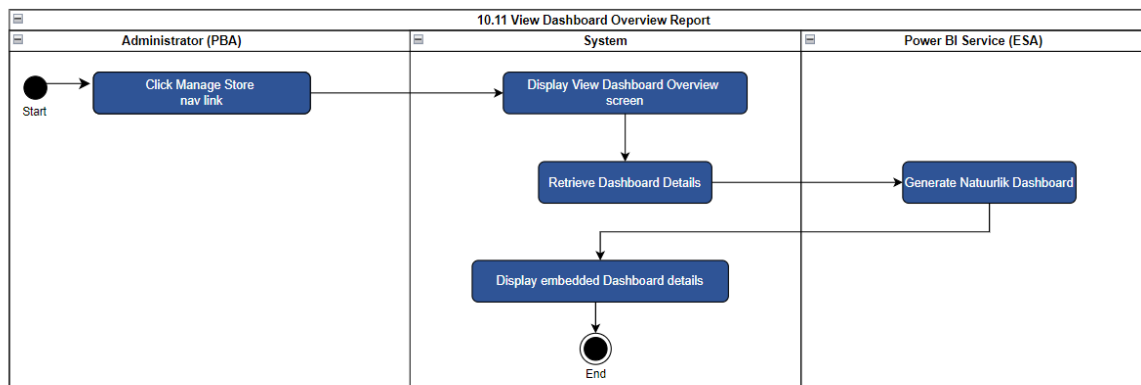


Figure 117 - View Dashboard Overview use case 10.11

2.11. Supplier Subsystem

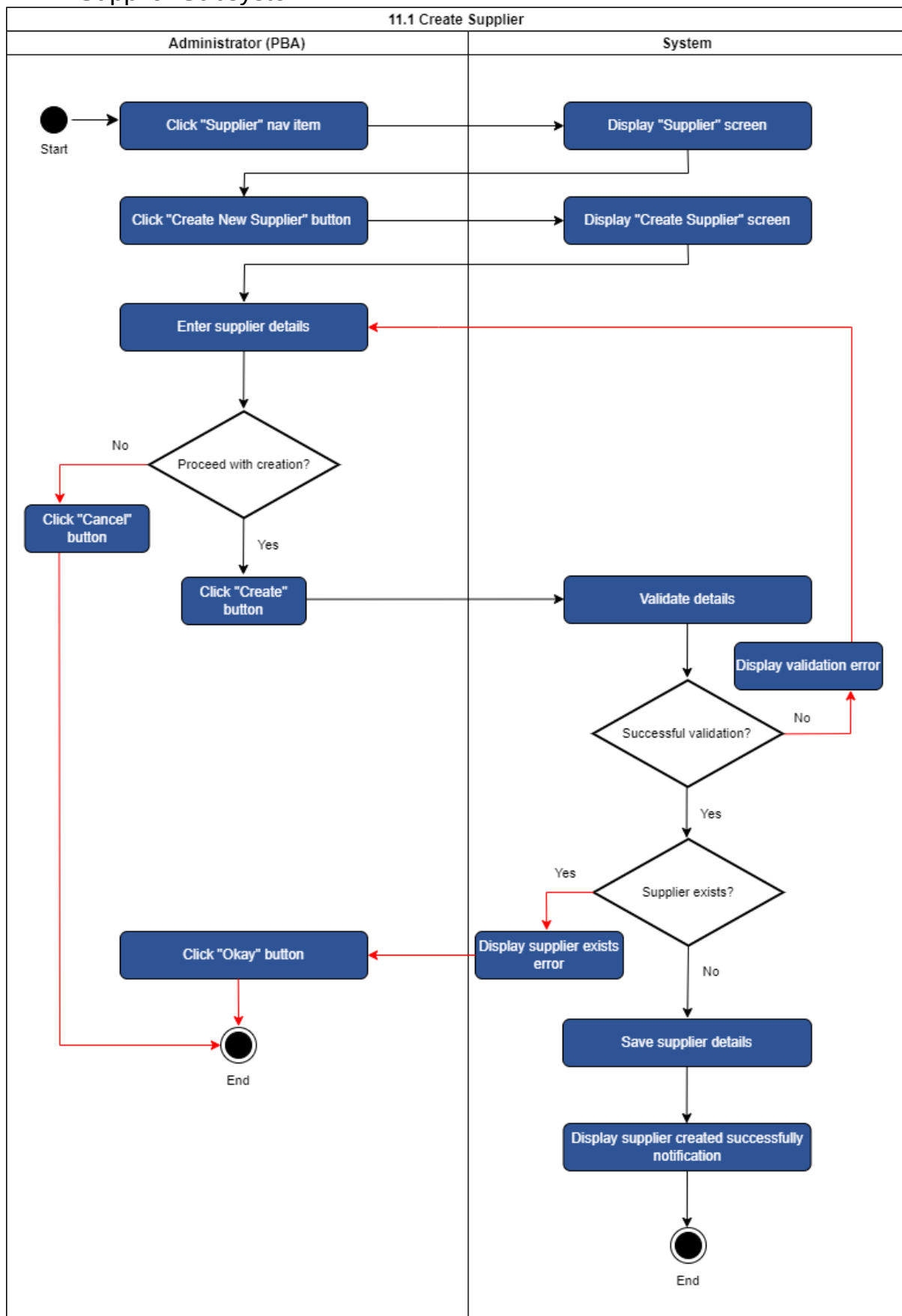


Figure 118 – Create Supplier use case 11.1

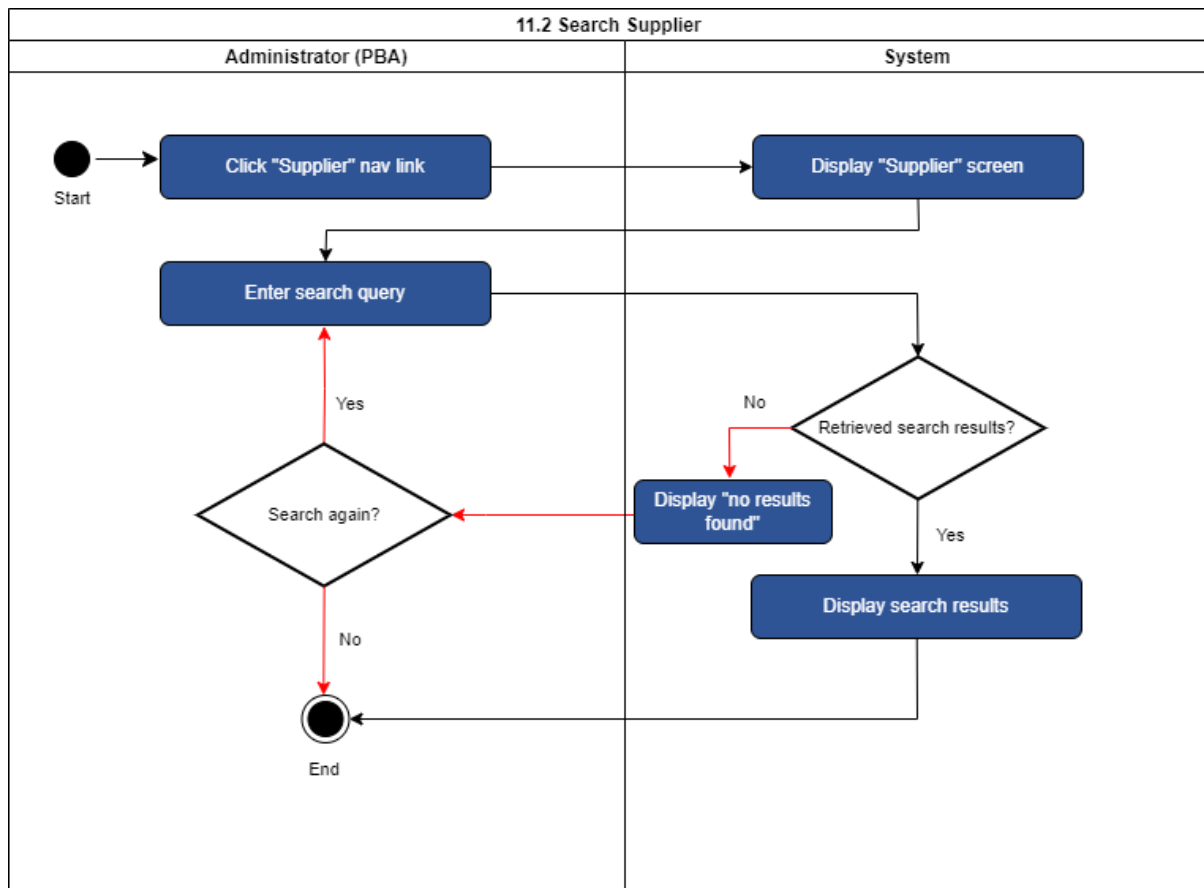


Figure 119 – Search Supplier use case 11.2

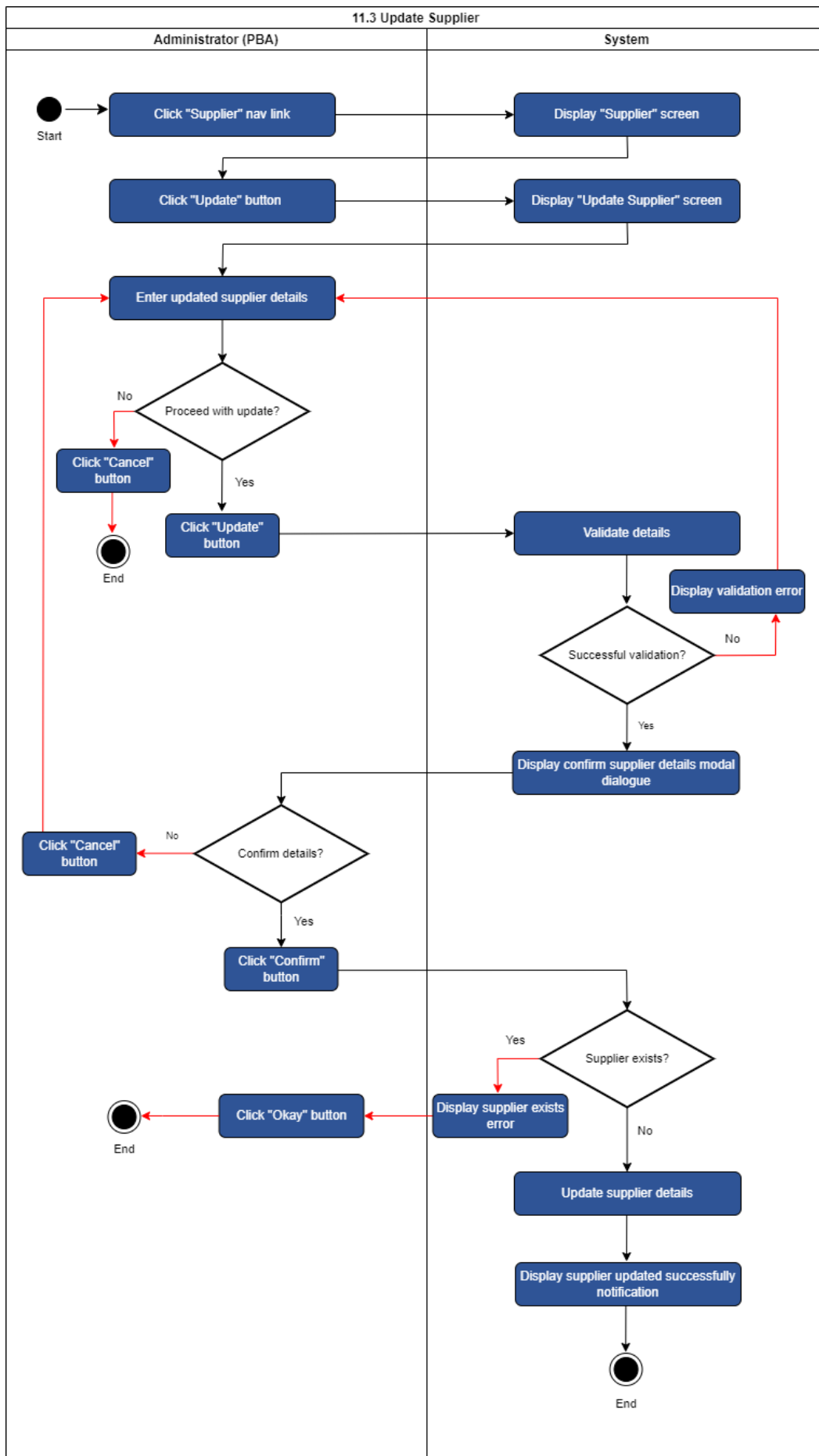


Figure 120 – Update Supplier use case 11.3

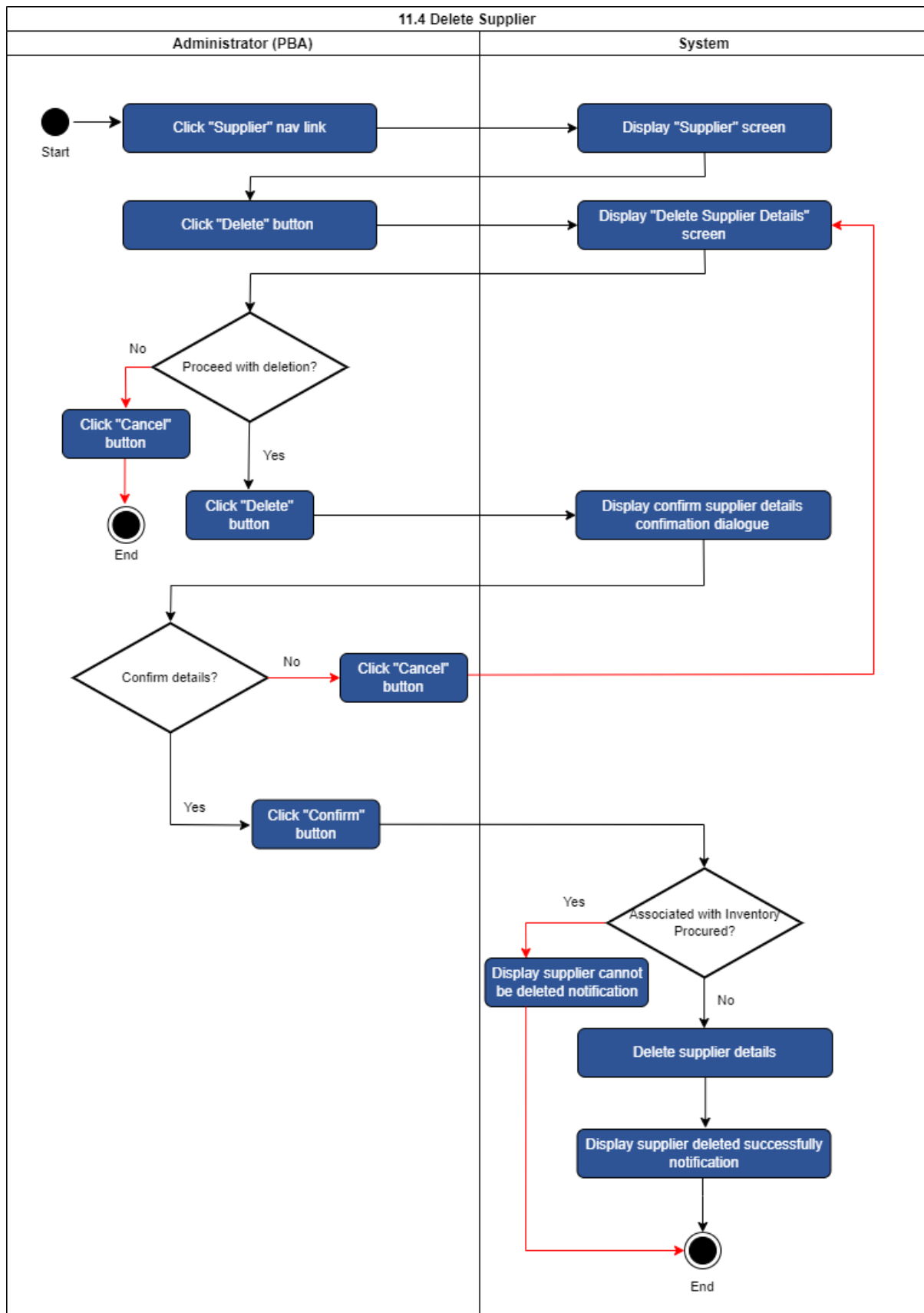


Figure 121 – Delete Supplier use case 11.4

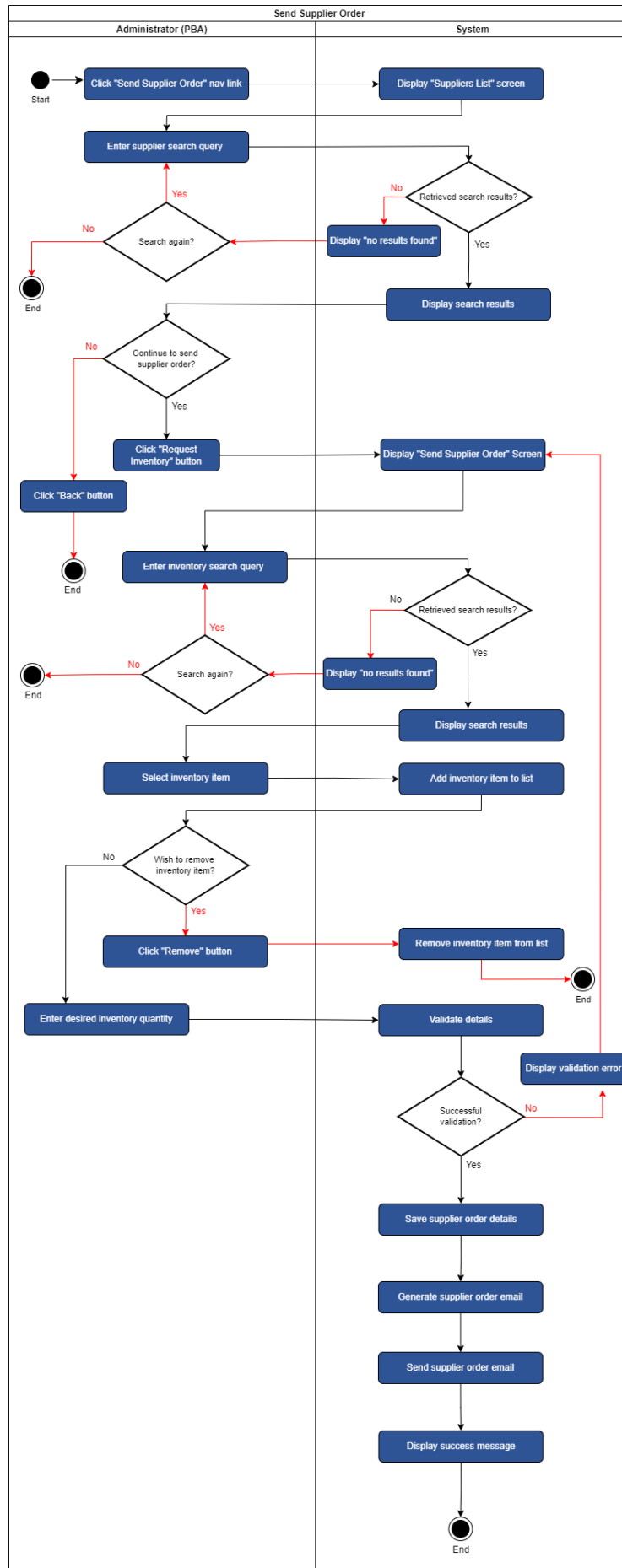


Figure 122 – Send Supplier Order use case 11.5

2.12. Driver Subsystem

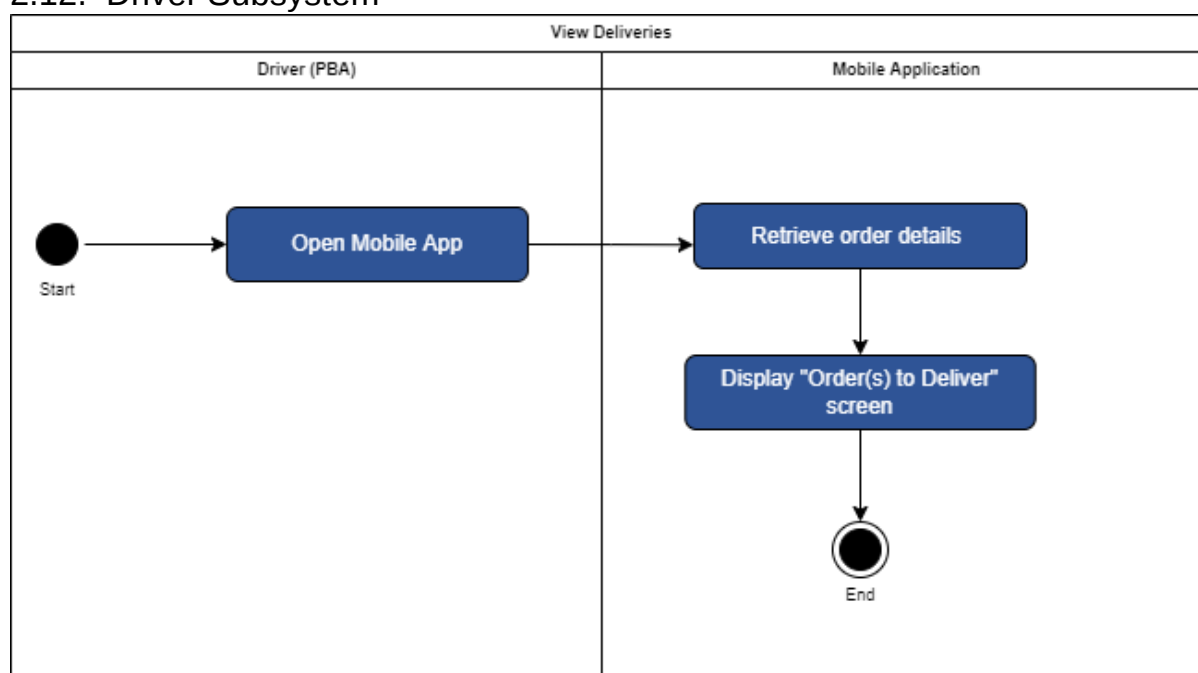


Figure 123 – View Deliveries use case 12.1

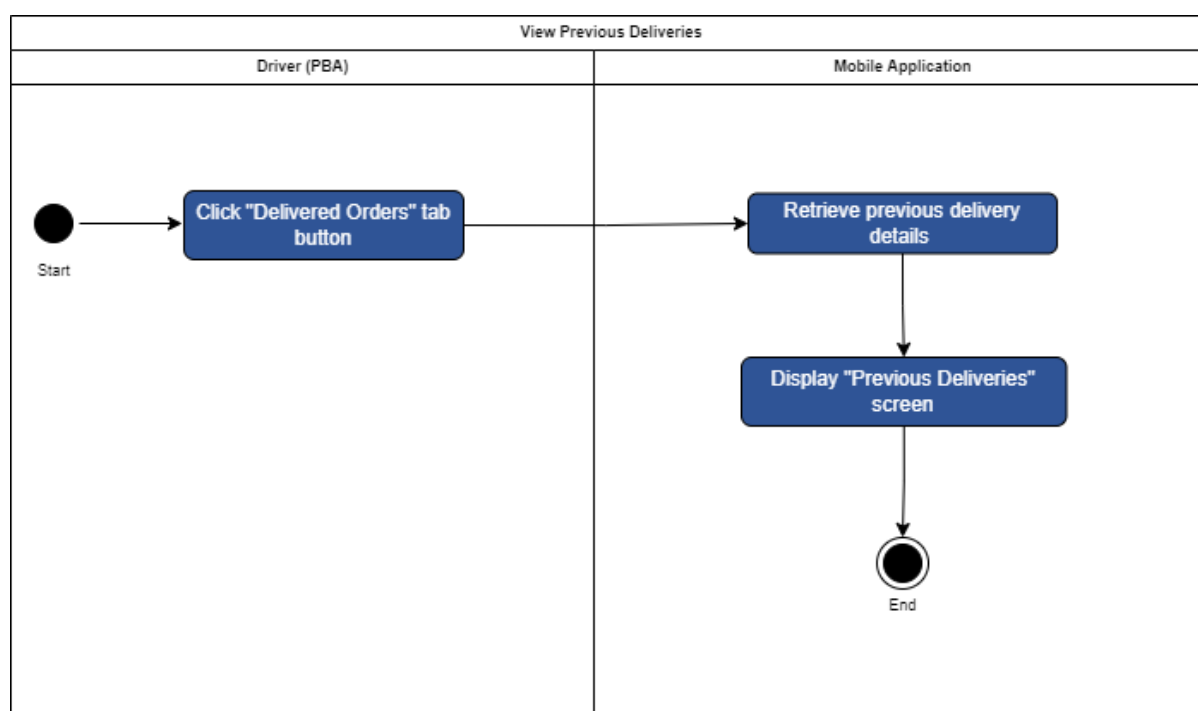


Figure 124 – View Previous Deliveries use case 12.2

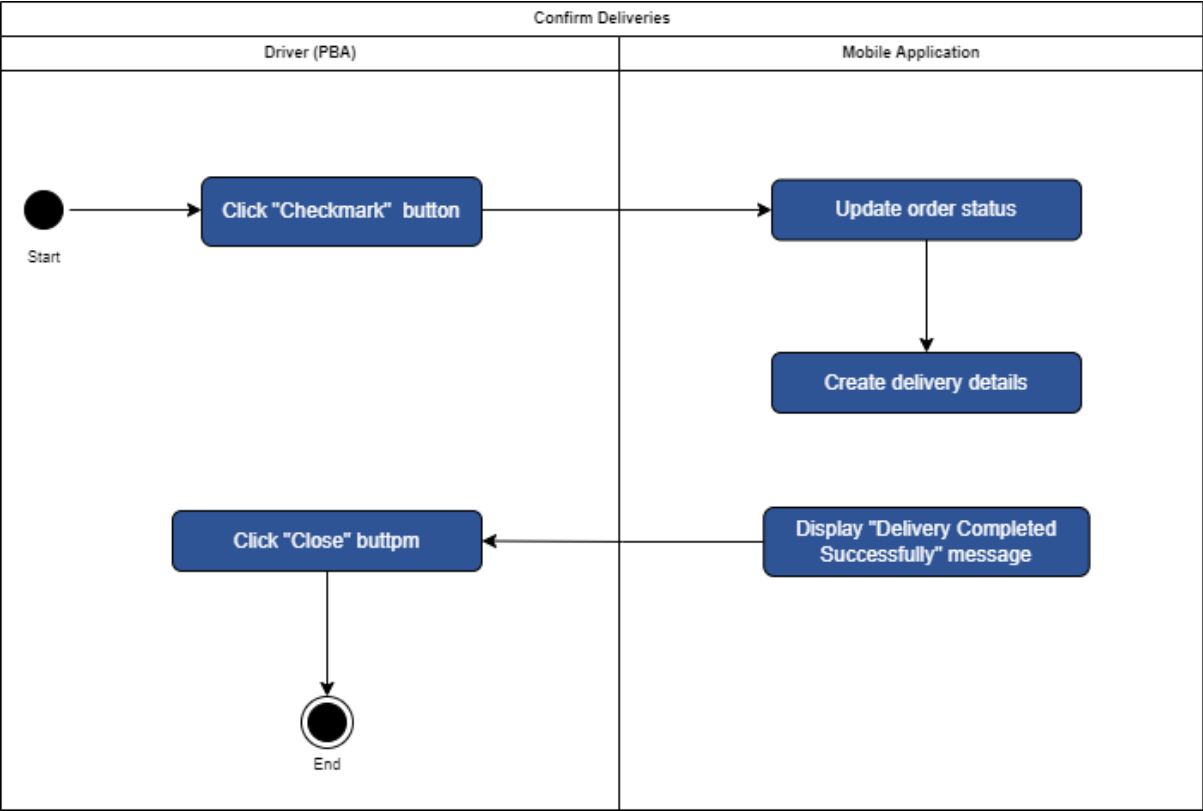


Figure 125 – Confirm Delivery use case 12.3

2.13. VAT Subsystem

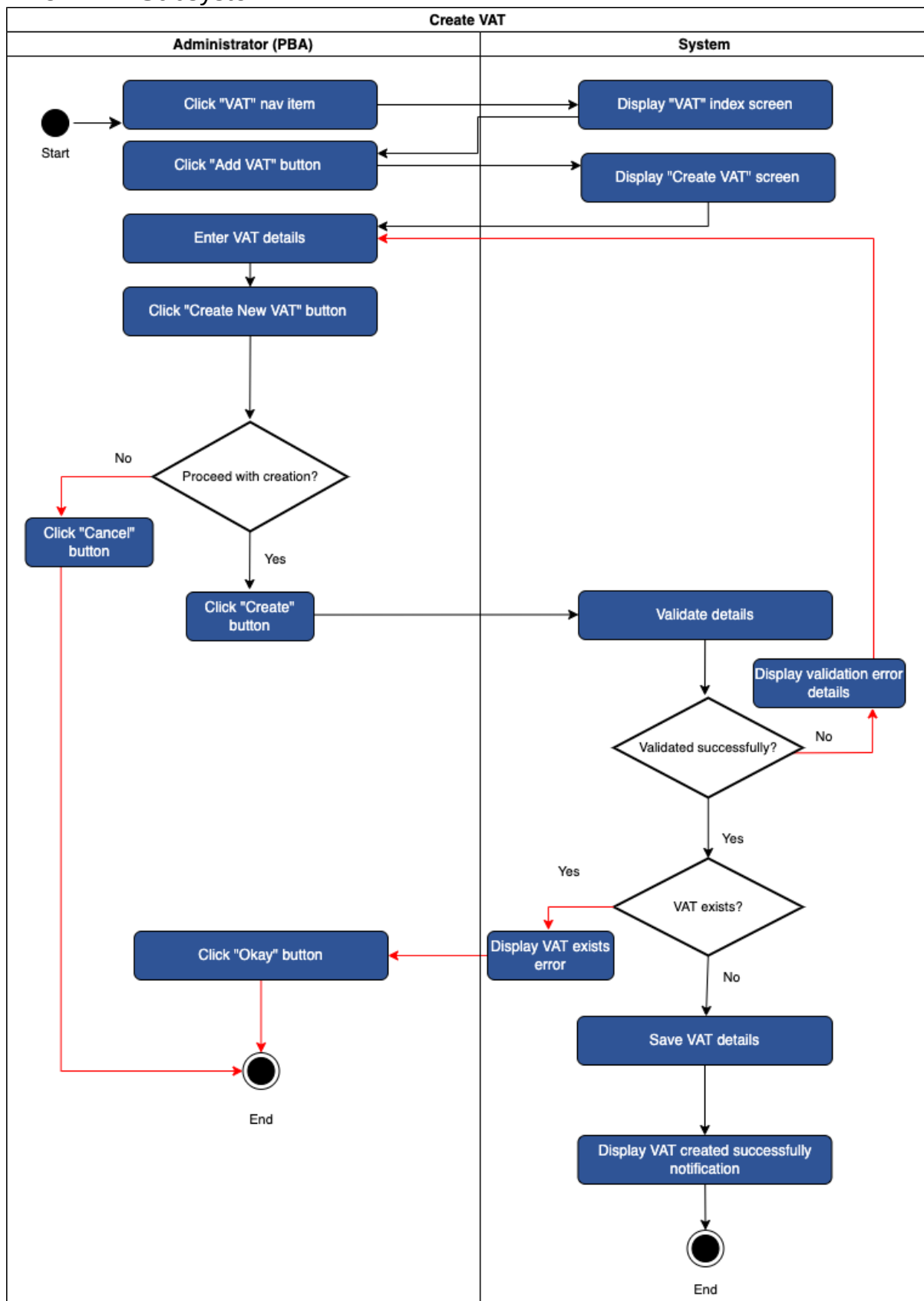


Figure 126 – Create VAT use case 13.1

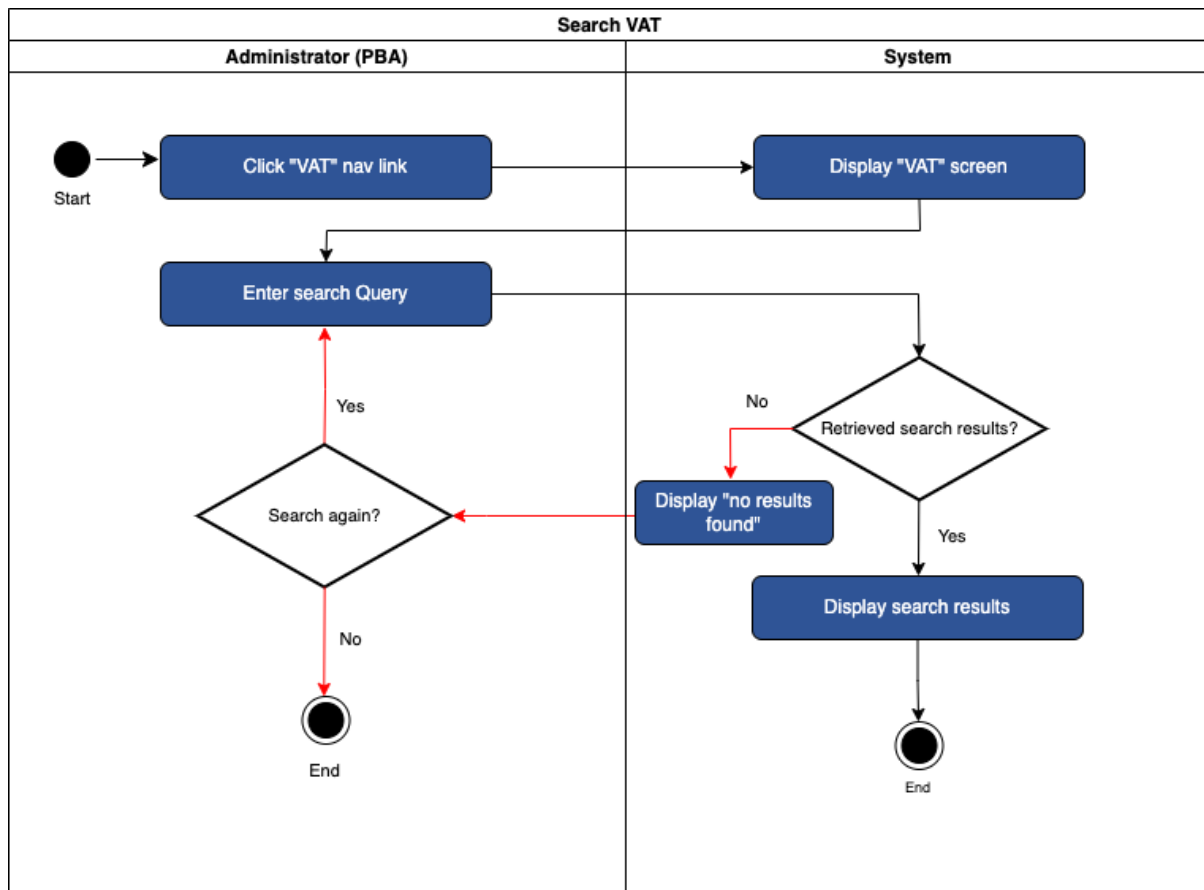


Figure 127 – Search VAT use case 13.2

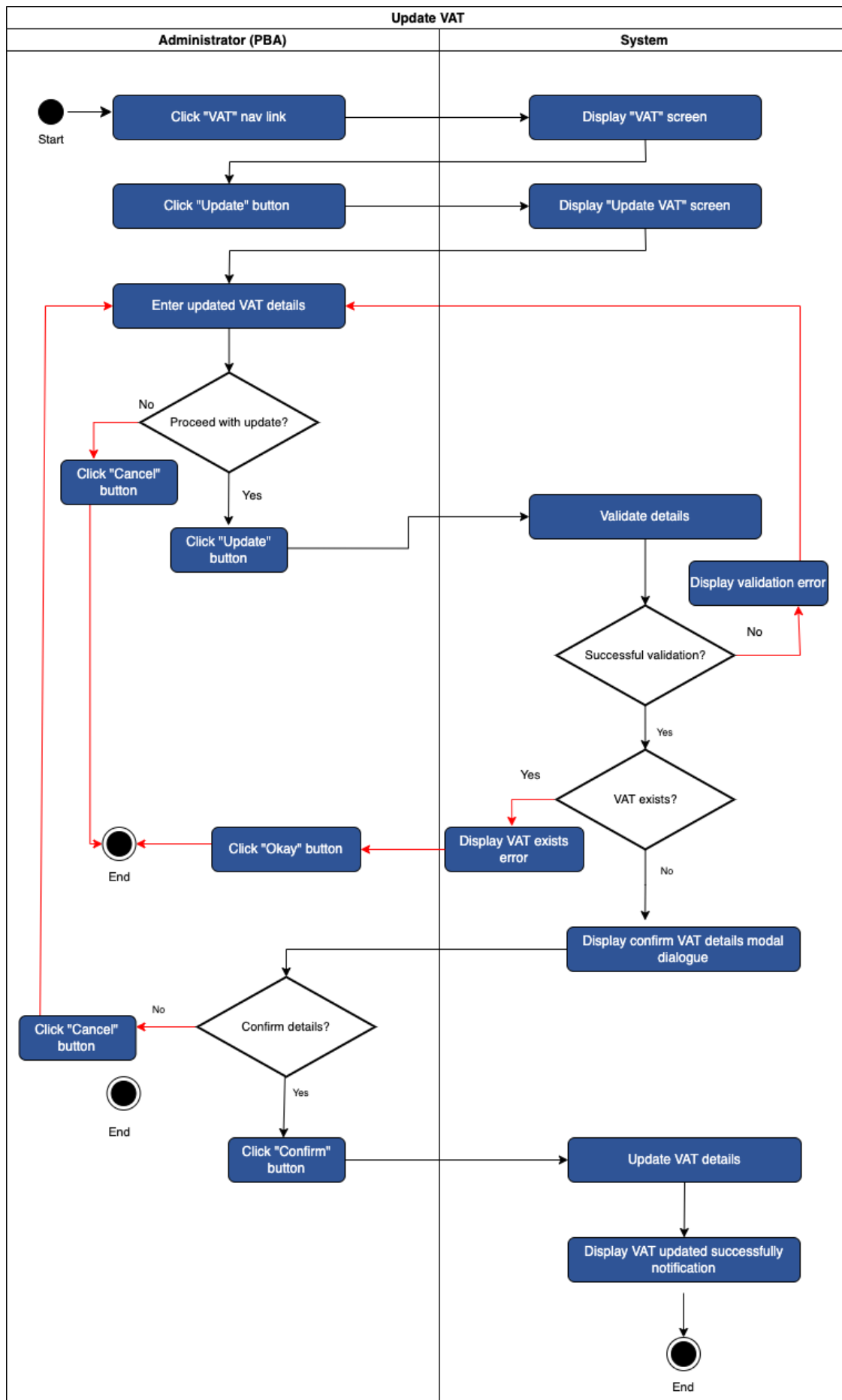


Figure 128 – Update VAT Details use case 13.3

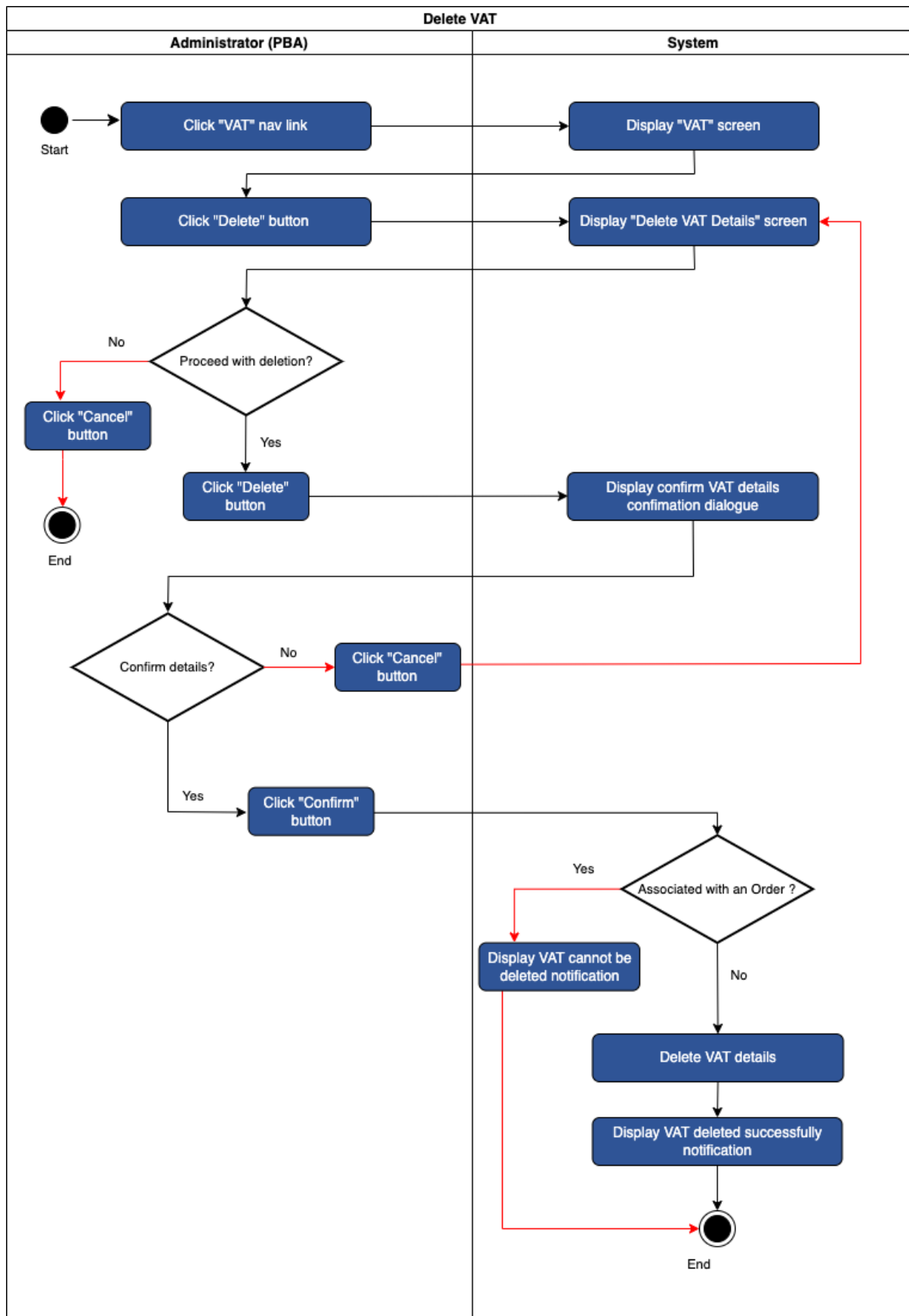


Figure 129 – Delete VAT use case 13.4

2.14. Reseller Credit Settlement Time Subsystem

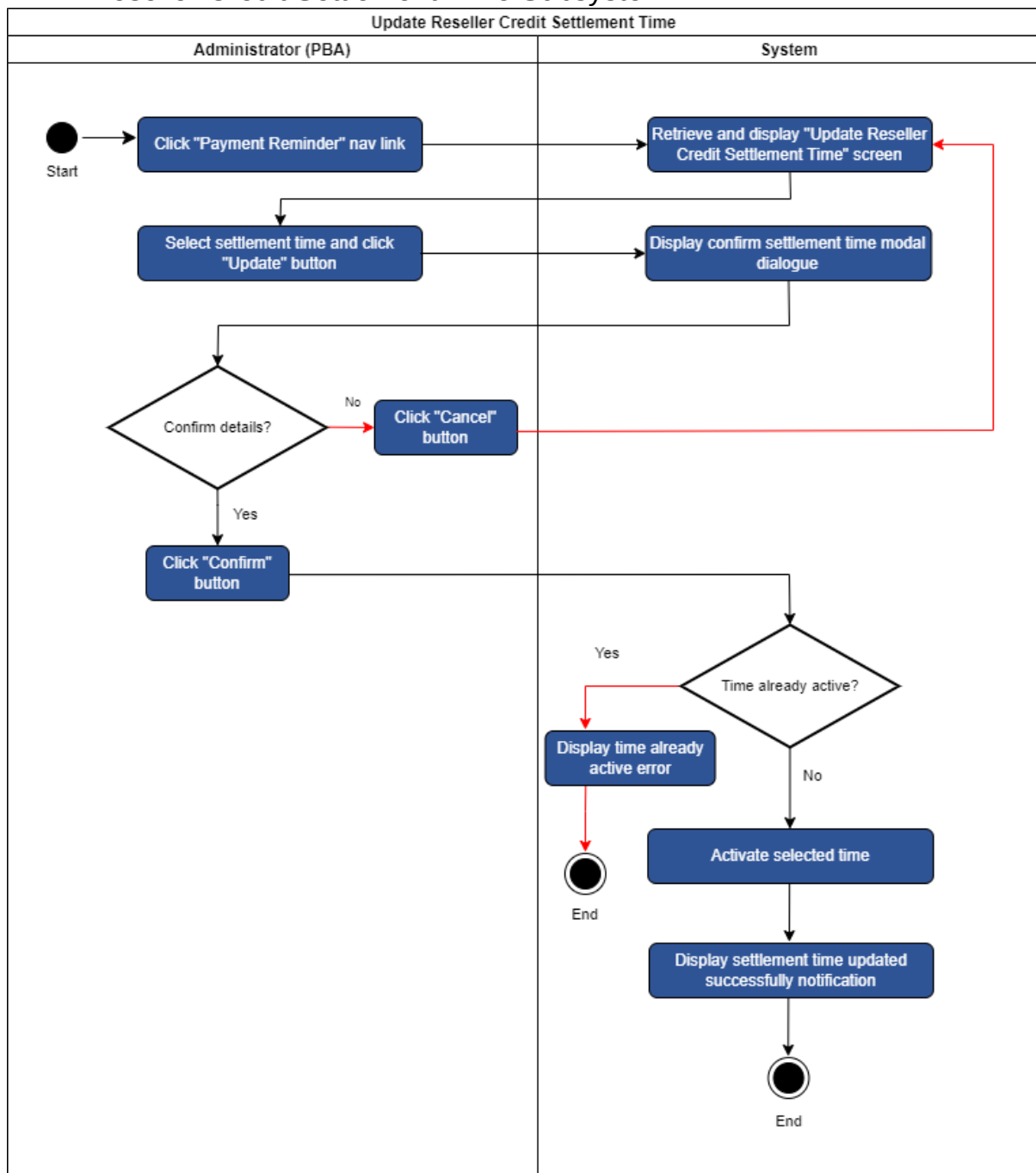


Figure 130 – Update Reseller Credit Settlement Time use case 14.1

2.15. Video Subsystem

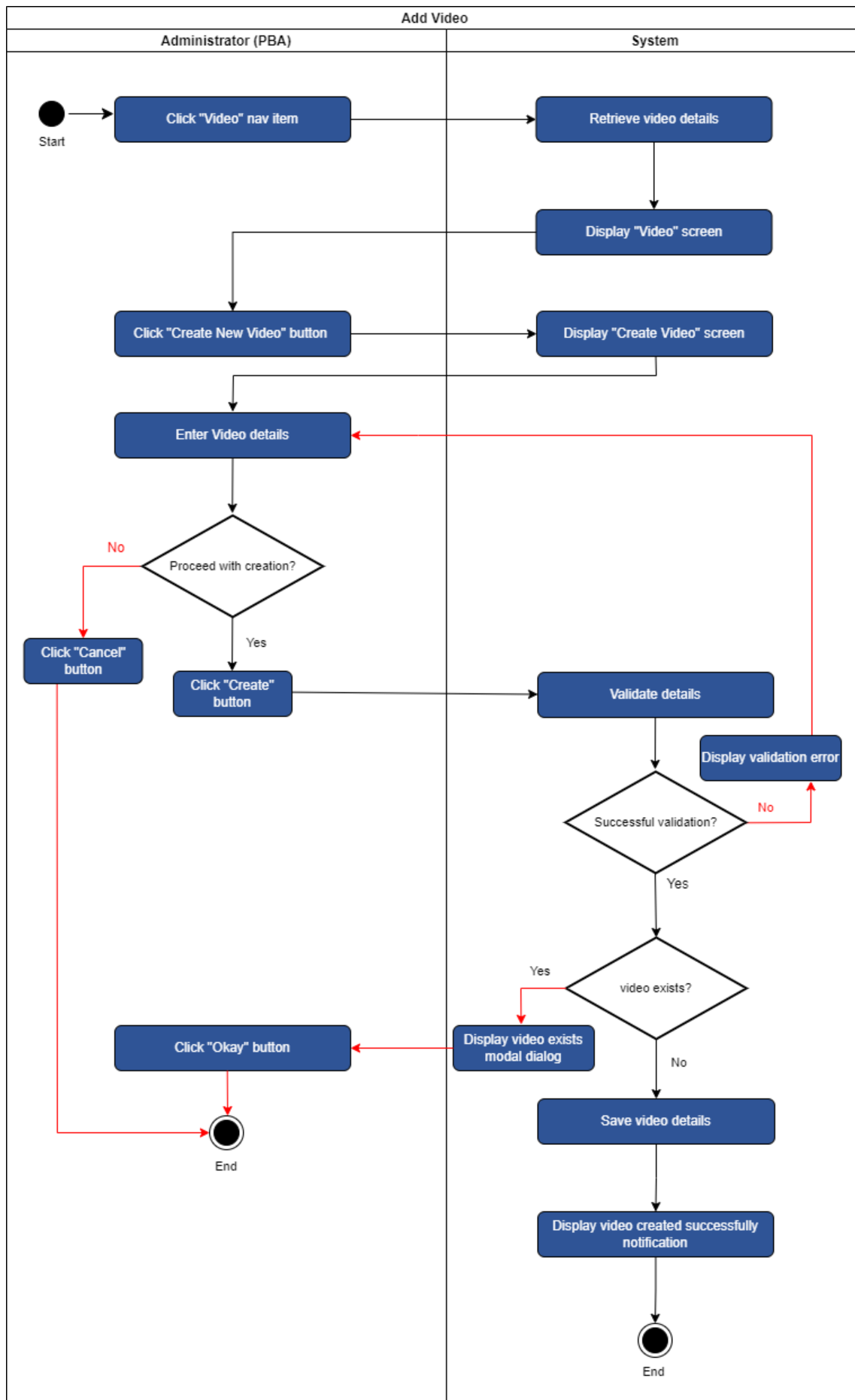


Figure 131 – Add Video use case 15.1

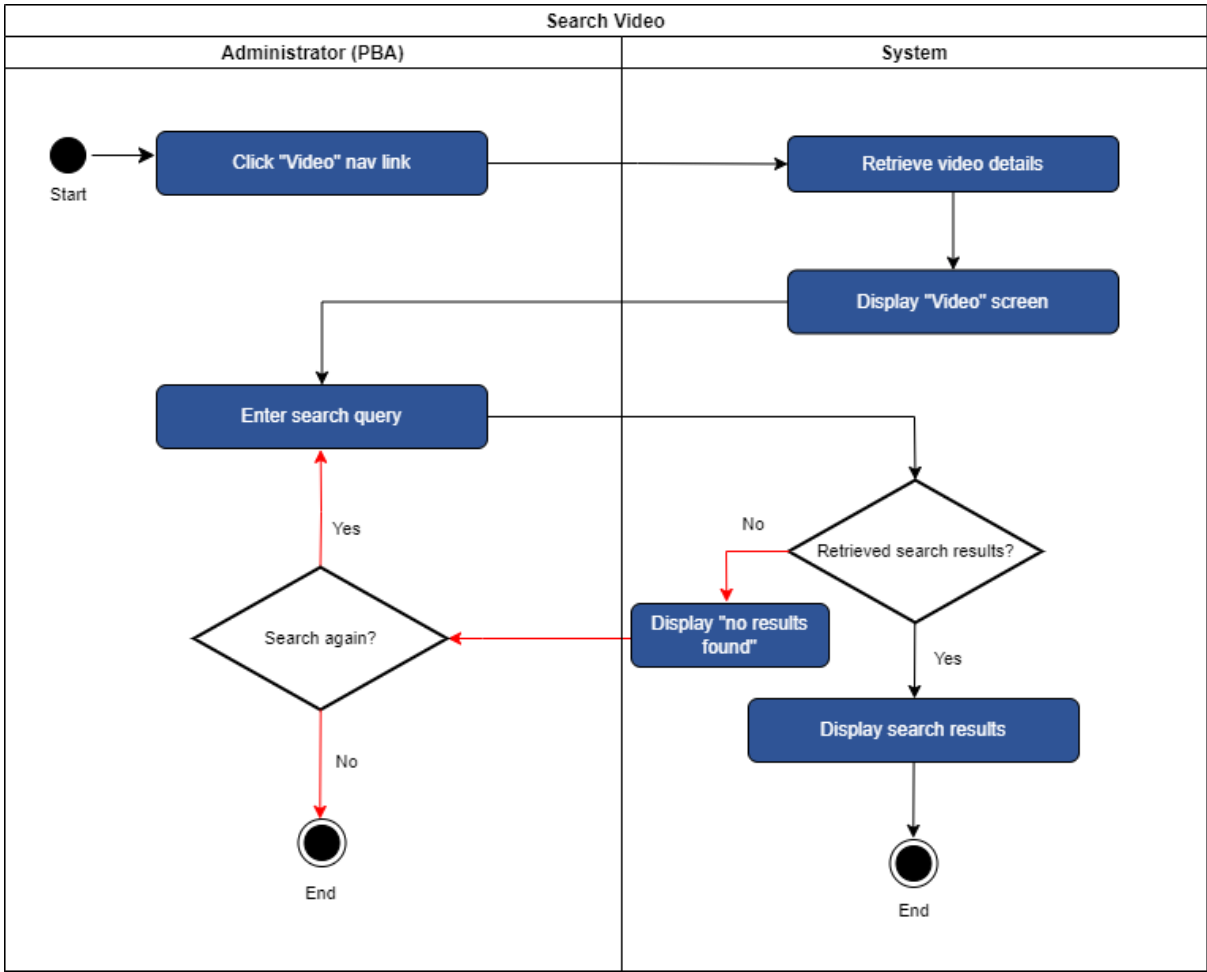


Figure 132 – Search Video use case 15.2

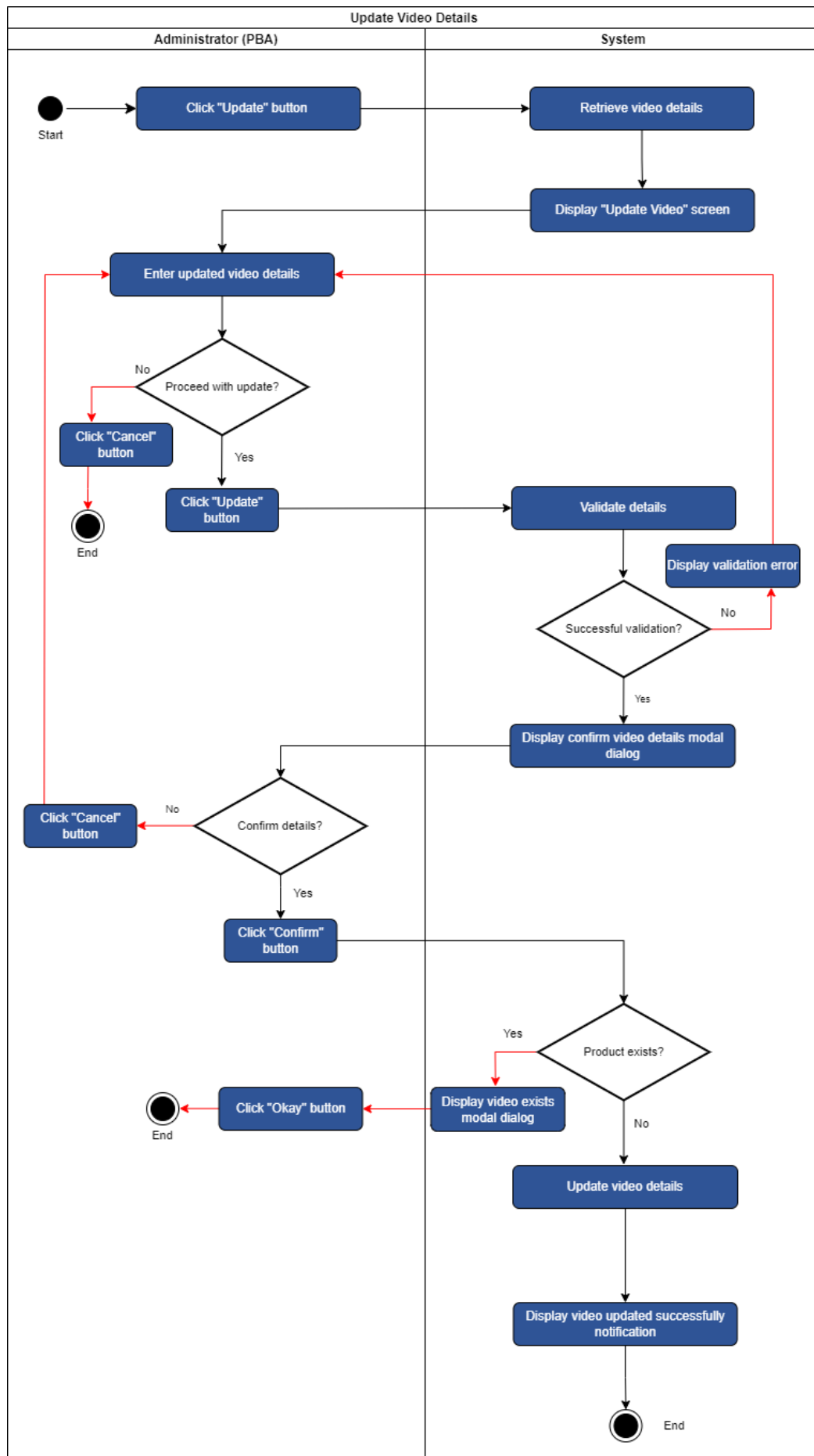


Figure 133 – Update Video Details use case 15.3

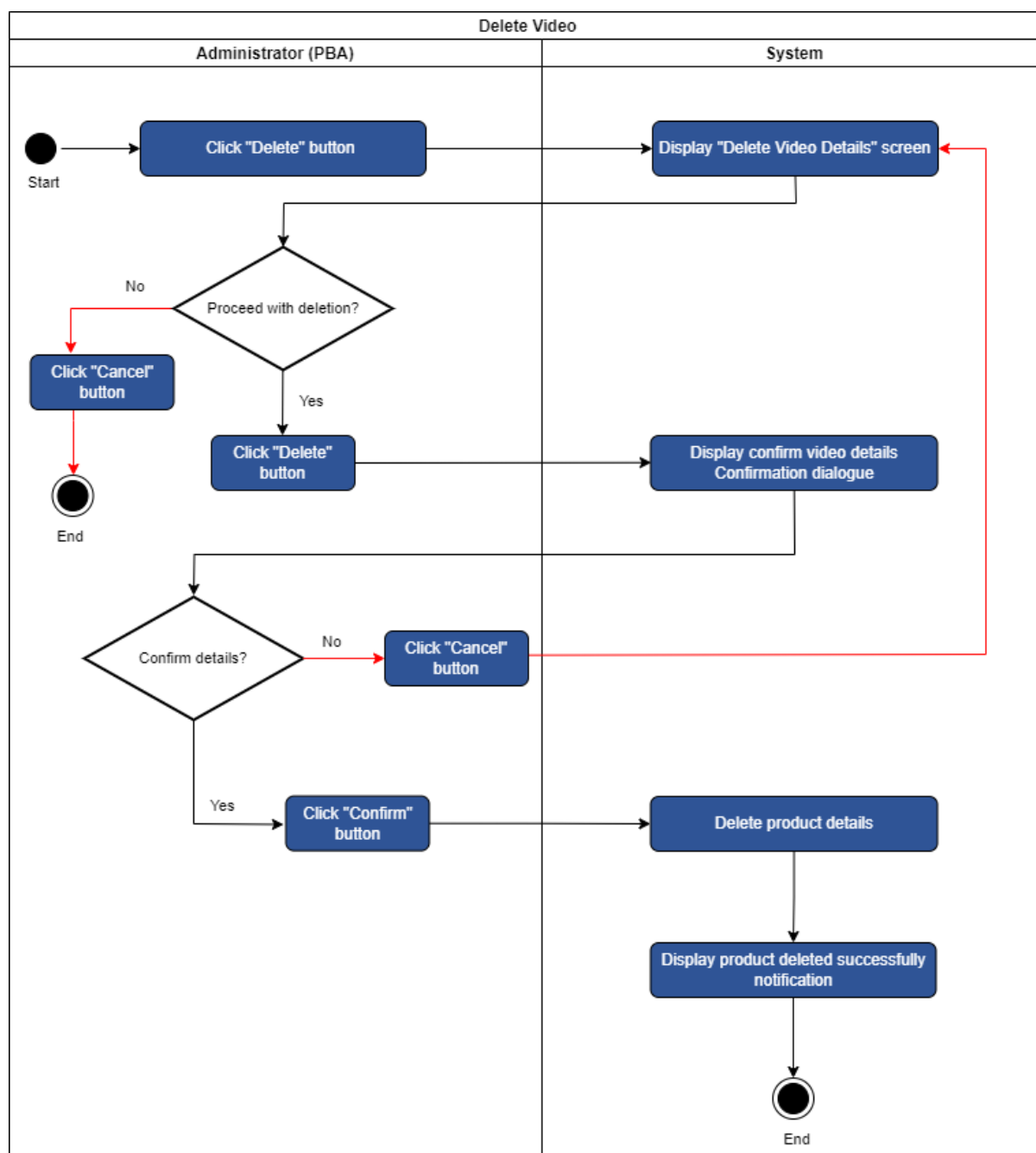


Figure 134 – Delete Video use case 15.4

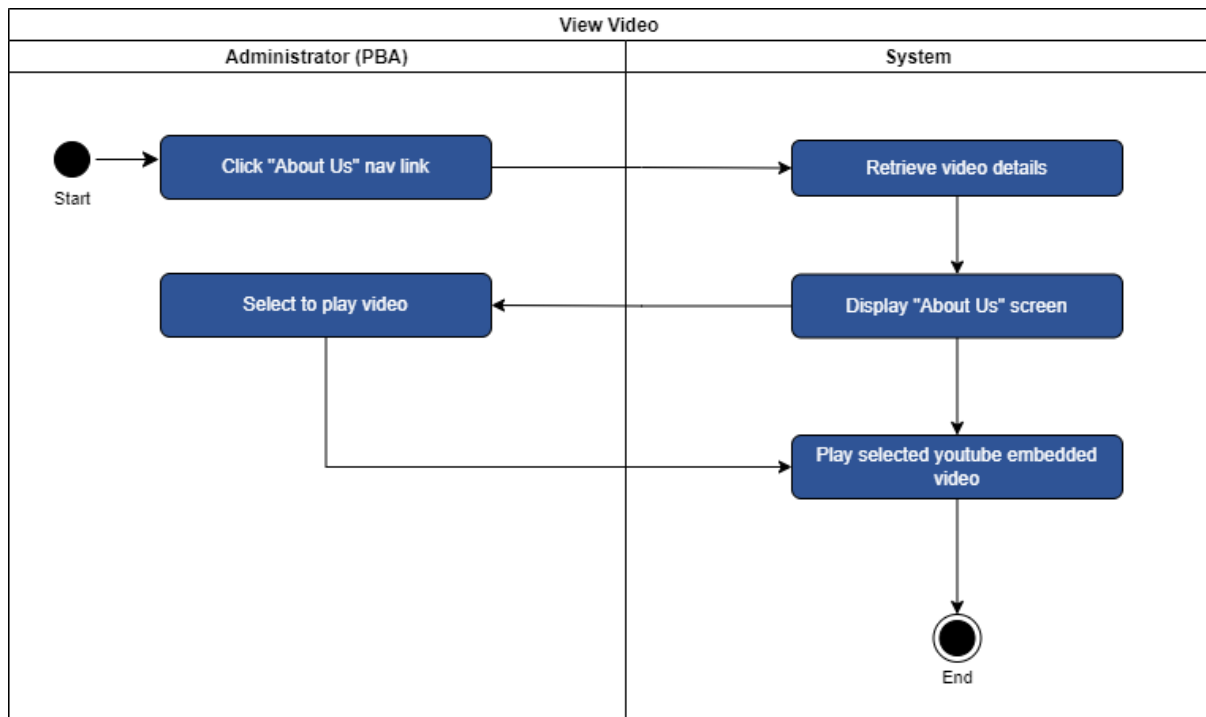


Figure 135 – View Video use case 15.5

2.16. Help Subsystem

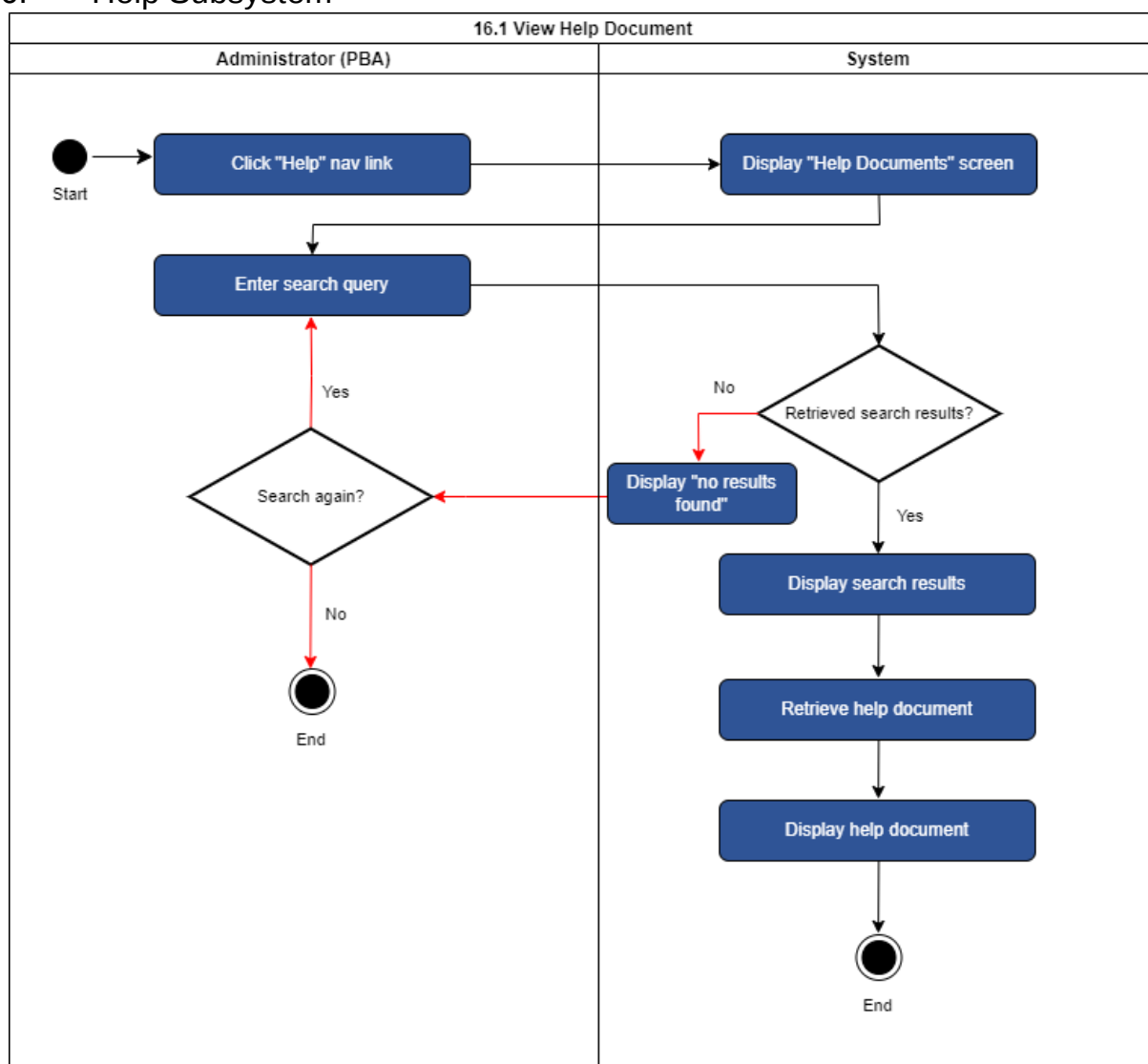


Figure 136 - View Help Document use case 16.1

Conclusion

In conclusion this section illustrated how different use case activities will be communicating and coordinating from the start until the use case concludes in a dynamic behaviour.

3. Iteration Conclusion

In conclusion the compiled iteration detailed the final documentation for the design and development of the ByteXecom E-commerce system. The documents contained the updated requirements lists, complexity matrix, logical and technical narratives, technical primitive, UML activity, sequence and state diagrams as well as the test cases and screen designs for our use cases.