ABSTRAK

Aplikasi inventory dan accounting untuk toko safari ini merupakan aplikasi yang digunakan untuk pencatatan bahan – bahan baku dan barang jadi dalam gudang, purchase order, delivery order, sales order, dan juga untuk pencatatan laporan keuangan seperti : jurnal, laporan laba rugi, dan neraca. Teknologi yang digunakan untuk membangun aplikasi ini antara lain : Java Server Pages(JSP), struts, ibatis, dan mySql sebagai database. Dengan dibuatnya aplikasi ini diharapkan dapat menambah efektifitas dan fleksibilitas perusahaan dalam melakukan penjualan dan pembelian barang, selain itu juga aplikasi ini diharapkan dapat memudahkan toko safari dalam mengelola stock bahan baku dan barang jadi, pencatatan sales order dan purchase order, dan juga delivery order. Metode penelitian yang dilakukan oleh penulis meliputi studi lapangan dan juga studi pustaka. Studi lapangan meliputi wawancara dengan menggunakan kuesioner dan pengamatan. Studi pustaka dilakukan dengan penelitian kepustakaan yang relevan dengan masalah yang dihadapi penulis. Dari 2 analisa yang telah dilakukan diatas maka diketahui bahwa Toko Safari memerlukan suatu aplikasi yang dapat membantu proses pencatatan stock barang, penjualan dan pembelian barang, dan juga pencatatan laporan keuangan sehingga dapat meningkatkan efektivitas perusahaan

Kata Kunci : Java Server Pages(JSP), struts, ibatis, dan mySql

ABSTRACT

Inventory and accounting application for Safari is an application that is used to note raw materials and final goods inside warehouse, purchase order, sales order, as well as for recording the financial report such as journal, profit loss report, and balance. The technology which is used to develop this application such as Java Server Pages(JSP), struts, ibatis, and mysql as database. With this application that has been created, we hope that it is able to improve affectivity and flexibility of company in selling and buying things, beside that this application is also expected to facilitate Safari shop while processing stock of raw materials and final goods, sales order recording and purchase order as well as delivery order. Research method which has been done by author covered field study as well as library study. Field study involved interview by doing questionnaire and observation. Library study was done by doing library research which is relevant to the problem which was faced by author. From 2 analysis that have been done so it has been known that safari shop needs an application that can help the process in recording goods stock , selling and purchasing goods, as well as keeping financial report, therefore can improve affectivity of the company.

Keywords : Java Server Pages(JSP), struts, ibatis, and mySql

DAFTAR ISI

LEMBAR PENGESAHAN i
SURAT PERNYATAAN ORISINALITAS LAPORAN PENELITIAN iii
LEMBAR PERNYATAAN iv
PRAKATA v
ABSTRAK vii
ABSTRACT viii
DAFTAR ISI ix
DAFTAR GAMBAR xiv
DAFTAR TABEL xvii
BAB I Pendahuluan 1
1.1 Latar Belakang Masalah 1
1.2 Rumusan Masalah 1
1.3 Tujuan Pembahasan 2
1.4 Ruang Lingkup Kajian 2
1.5 Sumber Data 3
1.6 Sistematika Penyajian 3
BAB II KAJIAN TEORI 5
2.1 Akuntansi 5
2.1.1 Pengertian dan Definisi Akuntansi 5
2.1.2 Fungsi Akuntansi 5
2.1.3 Laporan dasar Akuntansi 5
2.1.4 Chart Of Account 7
2.2 MySql 9
2.3 IBATIS 10
2.4 Sturts 11
2.4 JAVA 11
2.4.1 Apa itu Teknologi JAVA 11
2.4.2 Karakteristik JAVA 12
2.4.3 Fase – Fase Pemrograman JAVA 14
2.5 JSP 14

2.5.1 Pengertian JSP 14
2.5.2 Alur Kerja JSP 15
2.6 JAVASCRIPT 16
2.6.1 Pengertian JAVASCRIPT 16
2.6.2 Perbedaan Javascript dan Java 16
2.6.3 Penggunaan Javascript 16
2.7 ERD 16
2.8 Data Flow Diagram(DFD) 21
2.8.1 Definisi DFD 21
2.8.2 Komponen DFD 22
2.9 Black Box Testing 24
2.10 Inventory 24
BAB III Analisis Dan Rancangan Sistem 26
3.1 Analisis 26
3.1.1 Profile Toko Safari 26
3.1.2 Analisis Proses Bisnis 26
3.1.2.1 Proses Pembelian 26
3.1.2.2 Proses Penjualan 28
3.1.2.3 Proses Akuntansi 29
3.2 Perancangan 30
3.3 Skema DataBase 31
3.4 Data Flow Diagram(DFD) 38
3.4.1 DFD Level 0 38
3.4.2 DFD Level 1 40
3.4.3 DFD Level 2 41
3.4.4 DFD Level 2 proses 2 Supplier 41
3.4.5 DFD Level 2 Proses 3 Material Purchase Order 42
3.4.6 DFD Level 2 Proses 4 Material Receipt 43
3.4.7 DFD Level 2 Proses 5 Raw Material 44
3.4.8 DFD Level 2 Proses 6 New Recipe 45
3.4.9 DFD Level 2 Proses 7 Production Process 45
3.4.10 DFD Level 2 Proses 8 Raw Material Stock 46
3.4.11 DFD Level 2 Proses 9 Finished Goods Stock 46
3.4.12 DFD Level 2 Proses 10 Customer 47

3.4.13 DFD Level 2 Proses 11 Sales Order 48
3.4.14 DFD Level 2 Proses 12 Delivery Order 49
3.4.15 DFD Level 2 Process 13 Accounting Period 49
3.4.16 DFD Level 2 Process 14 Chart Of Account 50
3.4.17 DFD Level 2 Process 15 Sales Payment Receipt 51
3.4.18 DFD Level 2 Process 16 Payment Of Material Purchase 51
3.4.19 DFD Level 2 Process 17 Journal Adjustment 52
3.4.20 DFD Level 2 Process 18 Journal 52
3.4.21 DFD Level 2 Process 19 Balance Sheet 52
3.4.22 DFD Level 2 Process 20 Profit and Loss 53
3.5 Kamus Data 53
3.6 PSPEC(Process Specification) 57
3.6.1 Level 1 57
3.6.2 Level 2 58
3.7 Sketsa User Interface 72
BAB IV Hasil Penelitian 96
4.1 Login 96
4.2 Admin 97
4.3 Supplier 97
4.3.1 Supplier Add 98
4.3.2 Supplier Edit 98
4.4 Material Purchase Order 99
4.4.1 Material Purchase Order Add 100
4.4.2 Material Purchase Order Edit 101
4.4.3 Material Receipt 101
4.5 Raw Material 102
4.5.1 Raw Material Add 103
4.5.2 Raw Material Edit 103
4.6 New Recipe 104
4.6.1 New Recipe Add 104
4.6.2 New Recipe Edit 105
4.7 Production Process 105
4.7.1 Production Process Add 106
4.8 Raw Material Stock List 106

4.9 Finished Goods Stock List 107
4.10 Customer 107
4.10.1 Customer Add 107
4.11 Sales Order List 108
4.11.1 Sales Order Edit 109
4.12 Delivery Order 110
4.13 Accounting Period 110
4.14 Chart Of Account 111
4.14.1 Chart Of Account Add 111
4.14.2 Chart Of Account Edit 112
4.15 Payment Of Material Purchase 112
4.16 Sales Payment Receipt List 113
4.17 Journal Adjustment 114
4.18 Journal Adjustment Add 114
4.19 Journal 115
4.20 Balance Sheet 116
4.21 Profit and Loss 116
BAB V EVALUASI 117
5.1 Form Login 117
5.2 Form Supplier 117
5.3 Form Supplier Add 118
5.4 Form Edit Supplier 118
5.5 Form Material Purchase Order 118
5.6 Form Add Material Purchase Order 119
5.7 Form Edit Material Purchase Order 119
5.8 Form Raw Material 119
5.9 Form Raw Material Add 120
5.10 Form Raw Material Edit 120
5.11 Form New Recipe 120
5.12 Form New Recipe Add 121
5.13 Form New Recipe Edit 121
5.14 Form Production Process 121
5.15 Form Production Process Add 122
5.16 Form Raw Material Stock 122

5.17 Form Finished Goods Stock 122
5.18 Form Customer 122
5.19 Form Customer Add 123
5.20 Form Customer Edit 123
5.21 Form Sales Order 123
5.22 Form Sales Order Add 124
5.23 Form Delivery Order List 124
5.24 Form Delivery Order 125
5.25 Form Account Period 125
5.26 Form Chart Of Account 125
5.27 Form Chart Of Account Add 126
5.28 Form Chart Of Account Edit 126
5.29 Form Material Payment List 126
5.30 Form Sales Payment List 126
5.31 Form Sales Payment Receipt 127
5.32 Journal 127
5.33 Balance Sheet 127
5.34 Profit and Loss 127
5.35 Jurnal Penyesuaian 127
5.36 Add Jurnal Penyesuaian 128
5.37 View Journal Adjustment 128
BAB VI SIMPULAN DAN SARAN 129
6.1 Kesimpulan 129
6.2 Saran 129
DAFTAR PUSTAKA xix
LAMPIRAN A-1

DAFTAR GAMBAR

Gambar 1 Gambar Jurnal 6
Gambar 2 Gambar Jurnal Penyesuaian 7
Gambar 3 Fase-Fase Pemrograman Java 14
Gambar 4 Alur JSP 15
Gambar 5 Gambar Atribut 18
Gambar 6 Gambar flowchart pembelian 27
Gambar 7 Gambar flowchart penjual 28
Gambar 8 Gambar Flowchart Akuntansi 29
Gambar 9 Gambar ERD 30
Gambar 10 Gambar DFD level 0 38
Gambar 11 Gambar DFD Level 1 40
Gambar 12 Gambar DFD Level 2 proses 2 supplier 41
Gambar 13 Gambar DFD Level 2 Process 3 Material Purchase Order 42
Gambar 14 Gambar DFD Level 2 Proses 4 Material Receipt 43
Gambar 15 Gambar DFD Level 2 Proses 5 Raw Material 44
Gambar 16 Gambar DFD Level 2 Proses 6 New Recipe 45
Gambar 17 Gambar DFD Level 2 Proses 7 Production Process 45
Gambar 18 Gambar DFD Level 2 Proses 8 Raw Material Stock 46
Gambar 19 Gambar DFD Level 2 Proses 9 Finished Goods Stock 46
Gambar 20 Gambar 18 DFD Level 2 Proses 10 Customer 47
Gambar 21 Gambar DFD Level 2 Proses 11 Sales Order 48
Gambar 22 Gambar DFD Level 2 Proses 12 Delivery Order 49
Gambar 23 Gambar DFD Level 2 Process 13 Accounting Period 49
Gambar 24 Gambar DFD Level 2 Process 14 Chart Of Account 50
Gambar 25 Gambar DFD Level 2 Process 15 Sales Payment Receipt 51
Gambar 26 Gambar DFD Level 2 Process 16 Payment Of Material Purchase 51
Gambar 27 Gambar DFD Level 2 Process 17 Journal Adjusment 52
Gambar 28 Gambar DFD Level 2 Process 18 Journal 52
Gambar 29 Gambar DFD Level 2 Process 19 Balance Sheet 52
Gambar 30 Gambar DFD Level 2 Process 20 Profit and Loss 53
Gambar 70 Login 73
Gambar 71 Gambar Admin 73
Gambar 72 Raw Material List 74
Gambar 73 Gambar Raw Material Add 75
Gambar 74 Gambar New Recipe 76
Gambar 75 Gambar New Recipe Add 77
Gambar 76 Gambar Production Process 78
Gambar 77 Gambar Production Process Add 79
Gambar 78 Gambar Raw Material Stock 80
Gambar 79 Gambar Finished Goods Stock 81
Gambar 80 Gambar Supplier 82
Gambar 81 Gambar Customer 83
Gambar 82 Gambar Material Purchase Order 84
Gambar 83 Gambar Material Purchase Order Add 85
Gambar 84 Gambar Material Receipt 86

Gambar 85 Gambar Sales Order 87
Gambar 86 Gambar Sales Order Add 88
Gambar 87 Gambar Delivery Order 89
Gambar 88 Gambar User Akunting 90
Gambar 89 Gambar Accounting Period 91
Gambar 90 Gambar Chart Of Account 91
Gambar 91 Gambar Chart Of Account Add 92
Gambar 92 Gambar Payment of Material Purchase 93
Gambar 93 Gambar Sales Payment Receipt 93
Gambar 94 Journal 94
Gambar 95 Gambar Balance Sheet 95
Gambar 96 Neraca Saldo 95
Gambar 97 Login 96
Gambar 98 Admin 97
Gambar 99 Supplier 97
Gambar 100 Supplier Add 98
Gambar 101 Supplier Edit 98
Gambar 102 Material Purchase Order 99
Gambar 103 Detail Material Purchase Order 100
Gambar 104 Material Purchase Order Add 100
Gambar 105 Material Purchase Order Edit 101
Gambar 106 Material Receipt 101
Gambar 107 Detail Material Receipt 102
Gambar 108 Raw Material 102
Gambar 109 Raw Material Add 103
Gambar 110 Raw Material Edit 103
Gambar 111 New Recipe 104
Gambar 112 New Recipe Add 104
Gambar 113 New Recipe Edit 105
Gambar 114 Production Process 105
Gambar 115 Production Process Add 106
Gambar 116 Raw Material Stock List 106
Gambar 117 Finished Goods Stock List 107
Gambar 118 Customer 107
Gambar 119 Customer Add 108
Gambar 120 Sales Order List 108
Gambar 121 Gambar Sales Order Detail 109
Gambar 122 Sales Order Edit 109
Gambar 123 Delivery Order 110
Gambar 124 Accounting Period 110
Gambar 125 Chart Of Account 111
Gambar 126 Chart Of Account Add 111
Gambar 127 Chart Of Account Edit 112
Gambar 128 Payment Of Material Purchase 112
Gambar 129 Gambar Detail Payment Of Material 113
Gambar 130 Sales Payment Receipt List 113
Gambar 131 Journal Adjustment 114
Gambar 132 View Journal Adjustment 114

Gambar 133 Journal Adjustment Add 114
Gambar 134 Journal 115
Gambar 135 View Journal 115
Gambar 136 Balance Sheet 116
Gambar 137 Profit and Loss 116

DAFTAR TABEL

Tabel I ERD 21
Tabel II account_balance 31
Tabel III accounting_period 31
Tabel IV chartofaccount 31
Tabel V customer 32
Tabel VI journal 32
Tabel VII journal_adjustment 32
Tabel VIII journal_adjustment_detail 32
Tabel IX journal_detail 33
Tabel X material_purchase_order 33
Tabel XI material_purchase_order_detail 34
Tabel XII newrecipe 34
Tabel XIII newrecipe_stock 34
Tabel XIV newrecipedetail 35
Tabel XV productionprocess 35
Tabel XVI rawmaterial 35
Tabel XVII rawmaterial_stock 36
Tabel XVIII sales_order 36
Tabel XIX sales_order_detail 36
Tabel XX supplier 37
Tabel XXI user 37
Tabel XXII Kamus Data User 53
Tabel XXIII Kamus Data Supplier 53
Tabel XXIV Kamus Data Material Purchase Order 54
Tabel XXV Kamus Data Raw Material 54
Tabel XXVI Kamus Data New Recipe 54
Tabel XXVII Kamus Data Production Process 55
Tabel XXVIII Kamus Data Raw Material Stock 55
Tabel XXIX Kamus Data New Recipe Stock 55
Tabel XXX Kamus Data Sales Order 56
Tabel XXXI Kamus Data Accounting Period 56
Tabel XXXII Kamus Data Chart Of Account 56
Tabel XXXIII Kamus Data Journal 57
Tabel XXXIV PSPEC process 1 Login 57
Tabel XXXV PSPEC Process 2.1 Add Supplier 58
Tabel XXXVI PSPEC Process 2.2 Edit Supplier 58
Tabel XXXVII PSPEC Process 2.3 Delete Supplier 58
Tabel XXXVIII PSPEC Process 3.1 Add Material Purchase Order 59
Tabel XXXIX PSPEC Process 3.2 Edit Material Purchase Order 59
Tabel XL PSPEC Process 3.3 Delete Material Purchase Order 60
Tabel XLI PSPEC Process 4.1 Receipt Purchase Order 60
Tabel XLII PSPEC Process 4.2 Detail Material Receipt 60
Tabel XLIII PSPEC Process 5.1 Add Raw Material 61
Tabel XLIV PSPEC Process 5.2 Edit Raw Material 61
Tabel XLV PSPEC Process 5.3 Delete Raw Material 61

Tabel XLVI PSPEC Process 6.1 Add New Recipe 62
Tabel XLVII PSPEC Process 6.2 Edit New Recipe 62
Tabel XLVIII PSPEC Process 6.3 Delete New Recipe 63
Tabel XLIX PSPEC Process 7.1 Add Production Process 63
Tabel L PSPEC Process 8.1 View Raw Material Stock 63
Tabel LI PSPEC Process 9.1 View Finished Goods Stock 64
Tabel LII PSPEC Process 10.1 Add Customer 64
Tabel LIII PSPEC Process 10.2 Edit Customer 65
Tabel LIV PSPEC Process 10.3 Delete Customer 65
Tabel LV PSPEC Process 11.1 Add Sales Order 65
Tabel LVI PSPEC Process 11.2 Edit Sales Order 66
Tabel LVII PSPEC Process 11.3 Delete Sales Order 66
Tabel LVIII PSPEC Process 11.4 Detail Sales Order 66
Tabel LIX PSPEC Process 12.1 Detail Order List 67
Tabel LX PSPEC Process 12.2 Delivery Order 67
Tabel LXI PSPEC Process 13.1 Start Accounting Period 67
Tabel LXII PSPEC Process 13.2 End Account Period 68
Tabel LXIII PSPEC Process 14.1 Add Chart Of Account 68
Tabel LXIV PSPEC Process 14.2 Edit Chart Of Account 68
Tabel LXV PSPEC Process 14.3 Delete Chart Of Account 69
Tabel LXVI PSPEC Process 15.1 Sales Payment Receipt 69
Tabel LXVII PSPEC Process 15.2 Payment of Material 69
Tabel LXVIII PSPEC Process 15.1 Detail Payment Receipt 70
Tabel LXIX PSPEC Process 15.2 Payment Of Material 70
Tabel LXX PSPEC Process 17.1 Add Journal Adjustment 70
Tabel LXXI PSPEC Process 17.2 Edit Journal Adjustment 71
Tabel LXXII PSPEC Process 18.1 Detail Journal 71
Tabel LXXIII PSPEC Process 19.1 View Balance Sheet 71
Tabel LXXIV PSPEC Process 20.1 View Profit and Loss 72