Daftar Isi

Lembar Pengesahan.....i
Lembar Pernyataan.....ii
Lembar Peruntukan.....iii
Abstrak.....iv
Kata Pengantar.....v
Daftar Isi.....vii
Daftar Gambar.....xiii
Daftar Tabel.....xvii
Bab 1 Pendahuluan……..1
1.1. Latar Belakang Masalah…….....…….....……1
1.2. Identifikasi Masalah……...……...…….....2
1.3. Tujuan Penelitian…….....…….....2
1.4. Pembatasan Masalah…….....2
1.5. Asumsi.....3
1.6. Sistematika penulisan.....3
Bab 2 Landasan Teori.....5
2.1. Pengertian Sistem.....5
2.2. Pengertian Sistem Informasi.....5
2.3. Proses Pengembangan Sistem.....7
2.3.1. Prinsip-Prinsip Mendasar Pengembangan Sistem.....8
2.4. Analisis Sistem.....12
2.4.1. Pendekatan-Pendekatan Analisis Model Driven.....13
2.4.1.1. Fase Definisi Lingkup.....13
2.4.1.2. Fase Analisis Masalah.....14
2.4.1.3. Fase Analisis Kebutuhan.....15
2.4.1.4. Fase Desain Logis.....16

2.4.1.5. Fase Analisis Keputusan.....17
2.5. Pemodelan Persyaratan Sistem Menggunakan *Use-Case*.....18
2.6. Pemodelan dan Analisis Data.....20
2.6.1. Pemodelan Data.....20
2.6.2. Analisis Data.....21
2.7. Pemodelan Proses.....22
2.7.1. Membuat Model Proses.....23
2.8. Pemodelan Aktivitas *Use-Case*.....26
2.9. Membangun Model Data Menggunakan Power Designer.....26
2.10. Kanban.....26
Bab 3 Kerangka Pemecahan Masalah.....27
3.1. *Flow Chart* Penelitian.....27
3.2. Langkah-langkah Penelitian Pada Pengembangan Sistem Kanban Berjalan.....28
Bab 4 Analisis Sistem.....33
4.1. Analisis Sistem.....33
4.1.1. Definisi Ruang Lingkup.....33
4.1.2. Analisis Permasalahan..... 38
4.1.3. Analisis Persyaratan.....39
4.1.3.1. Kebutuhan Antarmuka Eksternal.....39
4.1.3.2. Antarmuka Pemakai.....40
4.1.3.3. Antarmuka Perangkat Keras, Lunak dan Komunikasi.....41
4.1.3.4. Kebutuhan Fungsional.....41
4.1.3.5. Kebutuhan Non Fungsional.....43
4.1.3.2. Use-Case Diagram.....44
4.1.4. Desain Logis.....46
4.1.4.1. Model Data Konseptual.....46

4.1.4.3. Diagram Aliran Data Konteks PT. Taikisha *Manufacturing* Indonesia.....48

4.1.4.4. Diagram Dekomposisi Fungsional PT. Taikisha *Manufacturing* Indonesia.....48

4.1.4.5. Event Diagram PT. Taikisha Manufacturing Indonesia..... 50

4.1.4.6. *System* Diagram PT. Taikisha *Manufacturing* Indonesia.....60

4.1.5. Analisis Keputusan.....61

Bab 5 Perancangan Sistem.....62

5.1. Desain Fisik dan Terintegrasi.....62

5.1.1. Desain Model Data Fisik.....62

5.1.2. DFD Fisik Sistem Kanban Berjalan PT Taikisha *Manufacturing* Indonesia.....63

5.1.3. Use Case Sistem.....65

5.1.4. Diagram Aktivitas.....66

5.2. Perancangan Basis Data.....74

5.2.1. Struktur Tabel.....74

5.2.2. Relasi Tabel.....79

5.3. Desain Antar Muka Aplikasi.....79

5.3.1. Desain Antar Muka Login.....79

5.3.2. Desain Antar Muka Marketing.....80

5.3.3. Desain Antar Muka Customer.....81

5.3.4. Desain Antar Muka Part.....81

5.3.5. Desain Antar Muka Order Revisi.....82

5.3.6. Desain Antar Muka Menu PPIC.....82

5.3.7. Desain Antar Muka Menu Pallet Production.....83

5.3.8. Desain Antar Muka Menu Utama Loading.....83

5.3.9. Desain Antar Muka Menu Utama Unloading/QC.....84

5.3.10. Desain Antar Muka Menu Utama Packing/Delivery.....84
5.3.11. Desain Antar Muka Menu Carton Box.....85
5.3.12. Desain Antar Muka Menu Kanban Production.....85
5.3.13. Desain Antar Muka Report Status Periode PO.....86
5.3.14. Desain Antar Muka Report Status PO.....86
5.3.15. Desain Antar Muka Report Status PO.....86
5.3.16. Desain Antar Muka Report Part.....87
5.3.17. Desain Antar Muka Report Grafik Order Customer.....87
5.3.18. Desain Antar Muka Report Pallet Production.....87
5.3.19. Desain Antar Muka Report Data Production.....88
5.3.20. Desain Antar Muka Report Grafik Production.....88
5.3.21. Desain Antar Muka Report Delivery.....89
5.3.22. Desain Antar Muka Report Grafik Delivery.....89
5.3.23. Desain Antar Muka Kanban Delivery.....90
5.3.24. Desain Antar Muka Report Grafik Delivery.....90
5.3.25. Desain Antar Muka Report Data Arrival 91
5.3.26. Desain Antar Muka Kanban Production.....91
5.3.27. Desain Antar Muka Report Grafik Delivery.....92
5.3.28. Desain Antar Muka Report Data Arrival 92
5.3.29. Desain Antar Muka Report Data QC Part.....93
5.3.30. Desain Antar Muka Report Data QC Part Removal.....93
5.3.31. Desain Antar Muka Report Grafik Condition Part.....94
5.3.32 Desain Antar Muka Kanban QC.....94
5.3.33. Desain Antar Muka Report Data Kebutuhan Carton Box.....95
Bab 6 Implementasi.....96
6.1. Implementasi.....96
6.1.1. Implementasi Perangkat Lunak.....96

6.1.2. Implementasi Perangkat Keras.....96
6.1.3. Implementasi Antar Muka 97
6.1.1.1. Menu Login.....97
6.1.1.2. Menu Utama Marketing.....97
6.1.1.3. Menu Customer.....98
6.1.1.4. Menu Part.....99
6.1.1.5. Menu Search PO By No. PO.....100
6.1.1.6. Menu Search PO By ID Customer.....101
6.1.1.7. Menu Order Revisi.....102
6.1.1.8. Menu Utama PPIC.....102
6.1.1.9. Menu Pallet Production.....103
6.1.1.10. Menu Kanban Production.....104
6.1.1.11. Menu Utama Receiving.....105
6.1.1.12. Menu Look Kanban Code.....106
6.1.1.13. Menu Serach Arrival By Customer.....106
6.1.1.14. Menu Utama Loading.....107
6.1.1.15. Menu Utama Unloading/QC.....108
6.1.1.16. Menu Utama Packing.....109
6.1.1.17. Menu Carton.....109
6.1.1.18. Laporan Bulanan Status PO Marketing.....110
6.1.1.19. Laporan Status Periode PO.....111
6.1.1.20. Laporan Grafik Order Customer 111
6.1.1.21. Laporan Customer.....112
6.1.1.22. Laporan Part.....112
6.1.1.23. Laporan Daily Delivery.....112
6.1.1.24. Laporan Monthly Delivery.....113
6.1.1.25. Laporan Pallet Production.....113

6.1.1.26. Laporan Production Part.....114
6.1.1.27. Kanban Delivery.....114
6.1.1.28. Laporan Grafik Delivery.....115
6.1.1.29. Laporan Grafik Production.....115
6.1.1.30. Laporan Arrival.....116
6.1.1.31. Laporan Grafik Arrival.....116
6.1.1.32. Kanban Production.....117
6.1.1.33. Laporan Quality Part.....118
6.1.1.34. Kanban QC.....118
6.1.1.35. Laporan Part Removal.....119
6.1.1.36. Laporan Grafik Part NG Details.....119
6.1.1.37. Laporan Grafik Condition Part.....120
6.1.1.38. Laporan Carton Part.....121
Bab 7 Kesimpulan dan Saran 122
7.1. Kesimpulan.....122
7.2. Saran.....122
Daftar Pustaka.....124
Lampiran *Job Description* PT. TMI.....126
Lampiran Kanban *Production* PT. TMI.....127
Lampiran *Order Customer*.....128