

DAFTAR ISI

| | |
|--|-------|
| Abstrak | ii |
| <i>Abstract</i> | iv |
| Lembar Pengesahan | vi |
| Lembar Pernyataan Orisinalitas | vii |
| Kata Pengantar | viii |
| Lembar Persembahan | ix |
| Daftar Isi..... | x |
| Daftar Gambar..... | xvii |
| Daftar Tabel | xx |
| Daftar Lampiran | xxii |
| Daftar Istilah..... | xxiii |
| Bab I Pendahuluan | 1 |
| I.1 Latar Belakang | 1 |
| I.2 Perumusan Masalah..... | 5 |
| I.3 Tujuan Penelitian..... | 5 |
| I.4 Batasan Penelitian | 6 |
| I.5 Manfaat Penelitian..... | 6 |
| I.5.1 Manfaat Penelitian Bagi Rumah Sakit..... | 6 |
| I.5.2 Manfaat Penelitian Bagi Akademisi..... | 7 |
| I.6 Sistematika Penulisan..... | 7 |
| Bab II Tinjauan Pustaka | 9 |
| II.1 ERP (<i>Enterprise Resource Planning</i>)..... | 9 |
| II.1.1 Definisi ERP | 9 |
| II.1.2 Manfaat ERP | 10 |
| II.2 <i>Open-source</i> ERP | 11 |

| | | |
|---------|---|----|
| II.3 | Odoo | 12 |
| II.3.1 | Definisi Odoo | 12 |
| II.3.2 | Manfaat Penggunaan Odoo | 13 |
| II.3.3 | Modul <i>Manufacturing</i> Odoo | 14 |
| II.3.4 | Modul <i>Sales</i> Odoo..... | 15 |
| II.3.5 | Modul <i>Purchase</i> Odoo | 15 |
| II.3.6 | Modul <i>Inventory</i> Odoo..... | 15 |
| II.4 | Rumah Sakit | 16 |
| II.4.1 | Definisi Rumah Sakit | 16 |
| II.4.2 | Sistem Informasi Rumah Sakit | 16 |
| II.5 | Limbah Medis Padat..... | 17 |
| II.5.1 | Pengertian Limbah Medis Padat | 17 |
| II.5.2 | Pengelolaan Limbah Medis Padat..... | 18 |
| II.5.3 | Laporan Pengelolaan Limbah Medis Padat..... | 20 |
| II.6 | <i>Quickstart</i> | 21 |
| II.7 | Metode Pengujian..... | 23 |
| II.7.1 | <i>Unit Testing</i> | 23 |
| II.7.2 | <i>Integration testing</i> | 23 |
| II.7.3 | <i>Blackbox testing</i> | 23 |
| II.8 | Penelitian Terdahulu..... | 24 |
| Bab III | Metodologi Penelitian..... | 27 |
| III.1 | Kerangka Berpikir | 27 |
| III.2 | Sistematika Penyelesaian Masalah | 30 |
| III.3 | Pengumpulan Data | 31 |
| III.4 | Pengelolaan Data atau Pengembangan Produk / Artefak | 31 |
| III.4.1 | <i>Kick-off call</i> | 32 |

| | | |
|------------|--|----|
| III.4.2 | <i>Analysis</i> | 32 |
| III.4.3 | <i>Configuration</i> | 33 |
| III.5 | Metode Evaluasi | 34 |
| III.5.1 | <i>Unit Testing</i> | 34 |
| III.5.2 | <i>Integration Testing</i> | 34 |
| III.5.3 | <i>Blackbox Testing</i> | 34 |
| III.6 | Alasan Pemilihan Metode..... | 35 |
| III.7 | Rencana Jadwal Kegiatan..... | 36 |
| Bab IV | Analisis dan Perancangan | 37 |
| IV.1 | RSUP Hasan Sadikin..... | 37 |
| IV.1.1 | <i>Profile Rumah Sakit</i> | 37 |
| IV.1.2 | Visi dan Misi Rumah Sakit | 38 |
| IV.1.3 | Struktur Organisasi Rumah Sakit..... | 38 |
| IV.1.4 | Lokasi Rumah Sakit | 39 |
| IV.2 | Tahap <i>Kick-off call</i> | 39 |
| IV.2.1 | <i>Strategic Planning</i> | 39 |
| IV.2.1.1 | <i>Project Planning</i> | 41 |
| IV.2.1.2 | <i>Project Team</i> | 41 |
| IV.2.2 | <i>Goals Determination</i> | 42 |
| IV.3 | Tahap <i>Analysis</i> | 43 |
| IV.3.1 | <i>Business Needs Analysis</i> | 43 |
| IV.3.1.1 | Struktur Organisasi Usulan..... | 43 |
| IV.3.1.2 | Proses Bisnis <i>Existing</i> | 44 |
| IV.3.1.2.1 | Proses Bisnis Pemilahan Limbah Medis Padat (<i>as-is</i>)..... | 45 |
| IV.3.1.2.2 | Proses Bisnis Persiapan Pengelolaan Limbah Medis Padat (<i>as-is</i>)..... | 46 |

| | |
|--|----|
| IV.3.1.2.3 Proses Bisnis Pengolahan Limbah Medis Padat (<i>as-is</i>) | 48 |
| IV.3.1.2.4 Proses Bisnis <i>Re-use</i> Limbah Medis Padat (<i>as-is</i>)..... | 50 |
| IV.3.1.2.5 Proses Bisnis Penyimpanan Pengelolaan Limbah Medis Padat (<i>as-is</i>)..... | 52 |
| IV.3.1.2.6 Proses Bisnis Pengangkutan Limbah Medis Padat (<i>as-is</i>).. | 53 |
| IV.3.1.2.7 Proses Bisnis Pengembalian Limbah Medis Padat (<i>as-is</i>).. | 54 |
| IV.3.1.2.8 Proses Bisnis Pelaporan Pengelolaan Limbah Medis Padat (<i>as-is</i>)..... | 55 |
| IV.3.1.3 Fit & Gap <i>Analysis</i> | 56 |
| IV.3.1.4 Proses Bisnis <i>Targeting</i> | 63 |
| IV.3.1.4.1 Proses Bisnis Pemilahan & Pewadahan Limbah Medis Padat (<i>to-be</i>) | 64 |
| IV.3.1.4.2 Proses Bisnis Persiapan Pengelolaan Limbah Medis Padat (<i>to-be</i>) | 65 |
| IV.3.1.4.3 Proses Bisnis Pengolahan Limbah Medis Padat (<i>to-be</i>) | 67 |
| IV.3.1.4.4 Proses Bisnis <i>Re-use</i> Limbah Medis Padat (<i>to-be</i>) | 69 |
| IV.3.1.4.5 Proses Bisnis Penyimpanan Pengelolaan Limbah Medis Padat (<i>to-be</i>) | 70 |
| IV.3.1.4.6 Proses Bisnis Pengangkutan Limbah Medis Padat (<i>to-be</i>) . | 71 |
| IV.3.1.4.7 Proses Bisnis Pengembalian Limbah Medis Padat (<i>to-be</i>) . | 72 |
| IV.3.1.4.8 Proses Bisnis Pelaporan Pengelolaan Limbah Medis Padat (<i>to-be</i>)..... | 73 |
| IV.3.1.5 Perancangan Modul Pengelolaan Limbah Medis Padat Pada Sistem | 74 |
| IV.3.1.6 <i>Master data Planning</i> | 76 |
| IV.3.1.6.1 <i>Master data Product</i> | 76 |
| IV.3.1.6.2 <i>Master data Work Center</i> | 77 |

| | | |
|-------------|--|-----|
| IV.3.1.6.3 | <i>Master data Routing</i> | 79 |
| IV.3.1.6.4 | <i>Master data Bill of Material</i> | 80 |
| IV.3.1.7 | <i>Use Case Diagram Modul Pengelolaan Limbah Medis Padat</i> 81 | |
| IV.3.1.8 | <i>Activity diagram</i> | 91 |
| IV.3.1.8.1 | <i>Activity Diagram Maintain Product</i> | 92 |
| IV.3.1.8.2 | <i>Activity Diagram Maintain Work Center</i> | 93 |
| IV.3.1.8.3 | <i>Activity Diagram Maintain Routing</i> | 94 |
| IV.3.1.8.4 | <i>Activity Diagram Maintain Bill of Material</i> | 95 |
| IV.3.1.8.5 | <i>Activity Diagram Maintain Solid Waste Management</i> | 96 |
| IV.3.1.8.6 | <i>Activity Diagram Maintain Work order</i> | 97 |
| IV.3.1.8.7 | <i>Activity Diagram Maintain Purchase order</i> | 98 |
| IV.3.1.8.8 | <i>Activity Diagram Maintain Sales Order</i> | 99 |
| IV.3.1.8.9 | <i>Activity Diagram Maintain Customer (Vendor)</i> | 100 |
| IV.3.1.8.10 | <i>Activity Diagram Maintain Vendor (Produsen)</i> | 101 |
| IV.3.1.8.11 | <i>Activity Diagram Maintain Warehouse</i> | 102 |
| IV.3.1.8.12 | <i>Activity Diagram Maintain Locations</i> | 103 |
| IV.3.1.8.13 | <i>Activity Diagram Maintain Putaway Rules</i> | 104 |
| IV.3.1.9 | <i>System Architecture Diagram</i> | 105 |
| Bab V | <i>Implementasi dan Pengujian</i> | 106 |
| V.1 | <i>Tahap Configuration</i> | 106 |
| V.1.1 | <i>On-Boarding</i> | 106 |
| V.1.1.1 | <i>Konfigurasi Sistem ERP</i> | 106 |
| V.1.1.1.1 | <i>Instalasi Server</i> | 107 |
| V.1.1.1.2 | <i>Konfigurasi Odoo</i> | 107 |
| V.1.1.1.3 | <i>Konfigurasi Company</i> | 107 |

| | |
|---|-----|
| V.1.1.1.4 Konfigurasi <i>User</i> | 109 |
| V.1.1.1.5 Konfigurasi Hak Akses <i>User</i> | 109 |
| V.1.1.1.6 Konfigurasi <i>Unit of Measure</i> | 112 |
| V.1.1.1.7 Konfigurasi Modul Pengelolaan Limbah Medis Padat | 113 |
| V.1.1.1.7.1 Konfigurasi <i>Form Re-use & Solid Medical Waste Management</i> | 113 |
| V.1.1.1.7.2 Konfigurasi <i>Form Sales Order</i> | 114 |
| V.1.1.1.7.3 Konfigurasi <i>Form Purchase Order</i> | 115 |
| V.1.1.1.7.4 Konfigurasi <i>Product Master data</i> | 115 |
| V.1.1.1.7.5 Konfigurasi <i>Work Center Master data</i> | 116 |
| V.1.1.1.7.6 Konfigurasi <i>Routing Master data</i> | 117 |
| V.1.1.1.7.7 Konfigurasi <i>Bill of Material Master data</i> | 118 |
| V.1.1.1.7.8 Konfigurasi <i>Warehouse</i> | 119 |
| V.1.1.1.7.9 Konfigurasi <i>Locations</i> | 119 |
| V.1.1.1.7.10 Konfigurasi <i>Putaway Rules</i> | 120 |
| V.1.1.1.7.11 Konfigurasi <i>Vendor (Produsen)</i> | 120 |
| V.1.1.1.7.12 Konfigurasi <i>Customer (Vendor)</i> | 121 |
| V.1.1.1.7.13 Konfigurasi <i>User Control</i> | 121 |
| V.1.1.1.8 Kustomisasi Modul Pengelolaan Limbah Medis padat | 122 |
| V.1.1.1.8.1 Kustomisasi <i>Landing Page</i> Sistem | 123 |
| V.1.1.1.8.2 Kustomisasi <i>Split Menu Solid Medical Waste Management</i> | 123 |
| V.1.1.1.8.3 Kustomisasi <i>Split Menu Reuse Solid Medical Waste Management</i> | 125 |
| V.1.1.1.8.4 Kustomisasi <i>Solid Medical Waste Indicator</i> | 126 |
| V.1.1.1.8.5 Kustomisasi <i>Sterilization Waste Indicator</i> | 127 |
| V.1.1.1.8.6 Kustomisasi <i>Waste Energy Consumption</i> | 128 |

| | |
|--|-----|
| V.1.1.1.8.7 Kustomisasi <i>Waste Process</i> | 129 |
| V.1.1.1.8.8 Kustomisasi <i>Production Report</i> | 130 |
| V.2 Tahap <i>Testing</i> dan <i>Validation</i> | 131 |
| V.2.1 <i>Unit Testing</i> | 132 |
| V.2.2 <i>Integration testing</i> | 132 |
| V.2.3 Perencanaan, Deskripsi Dan Hasil Uji Perangkat Lunak (PDHUPL) | 132 |
| Bab VI Kesimpulan dan Saran | 133 |
| VI.1 Kesimpulan..... | 133 |
| VI.2 Saran..... | 134 |
| Daftar Pustaka | 135 |
| Lampiran | 140 |