

ABSTRAK

Customer Relationship Management (CRM) merupakan salah satu sarana untuk menjalin hubungan yang berkelanjutan antara perusahaan dengan para stakeholder maupun *shareholdernya*. Saat ini banyak perusahaan yang memanfaatkan *Customer Relationship Management* (CRM) untuk menjalin hubungan dengan pelanggan. Dengan memanfaatkan CRM, perusahaan akan mengetahui apa yang diharapkan dan diperlukan pelanggannya sehingga akan tercipta ikatan emosional yang mampu menciptakan hubungan bisnis yang erat dan terbuka serta komunikasi dua arah di antara mereka. Dengan demikian kesetiaan pelanggan dapat dipertahankan. Tujuan penelitian adalah menggabungkan aplikasi *Customer Relationship Management* (CRM) yang didukung dengan penggunaan dan pengelolaan semua data yang diperlukan, khususnya data mengenai pelanggan, dengan menggunakan teknologi berbasis web. Proyek ini akan sangat membantu pemilik perusahaan dalam meningkatkan penjualannya, dapat menghindari resiko kehilangan informasi dalam catatan pemesanan tiket pesawat dan memudahkan konsumen dalam melakukan pemesanan tiket pesawat.

Kata Kunci: *website, customer relationship management, dan report.*

ABSTRACT

Customer Relationship Management (CRM) is one means to establish an ongoing relationship between the company and its stakeholders as well as shareholdernya. Today many companies are using Customer Relationship Management (CRM) to build relationships with customers. By leveraging the CRM, the company will know what is expected and required their customers so that it will create an emotional bond that is able to create business relationships and open and close two-way communication between them. Thus, customer loyalty can be maintained. The purpose of this research is to combine the application of Customer Relationship Management (CRM), which is supported by the use and management of all necessary data, particularly data about customers, using web-based technology. This project will greatly help the owner of the company in improving its sales, to avoid the risk of losing information in the record book a plane ticket and enable customers in booking airline tickets.

Keyword: website, customer relationship management, and report.

DAFTAR ISI

LEMBAR PENGESAHAN	i
LEMBAR PERNYATAAN PERSETUJUAN PUBLIKASI KARYA ILMIAH	ii
SURAT PERNYATAAN ORISINALITAS KARYA	iii
PRAKATA.....	iv
ABSTRAKSI	vi
ABSTRACT	vii
DAFTAR ISI.....	viii
DAFTAR GAMBAR	xii
DAFTAR TABEL.....	xv
DAFTAR LAMPIRAN	xvii
BAB I PENDAHULUAN.....	1
1.1 Latar Belakang Masalah	1
1.2 Rumusan Masalah	2
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 CRM	5
2.1.1 Konsep Dasar CRM	6
2.1.2 Komponen CRM	7
2.1.3 Variasi CRM.....	8
2.1.4 Strategi dan Implementasi	9
2.1.5 Sasaran dan Tujuan CRM.....	11
2.1.6 <i>Opportunities dan Campaigns</i>	12
2.1.7 <i>Opportunity Indicator</i>	14
2.2 SugarCRM.....	15
2.3 Flowchart	19
2.4 <i>Data Flow Diagram</i>	24
2.5 Kamus Data	27
2.6 <i>Process Specification (PSPEC)</i>	28
2.7 PHP	29
2.7.1 Hubungan PHP dengan HTML	30
2.7.2 Kelebihan PHP	30

2.8 ERD (<i>Entity Relationship Diagram</i>)	31
2.9 HTML.....	34
2.9.1 Struktur Dasar HTML	35
2.10 CSS	35
2.11 MySQL.....	36
BAB III ANALISIS DAN RANCANGAN SISTEM	38
3.1.1 Proses Bisnis	38
3.2 Rancangan Sistem.....	40
3.2.1 Struktur Menu	40
3.2.2 Integrasi SugarCRM Dengan Website Reservasi Pesawat	42
3.2.3 ER – Diagram	42
3.2.3.1 Keterangan Tabel	44
3.2.4 <i>Data Flow Diagram (DFD)</i>	50
3.2.4.1 DFD Level 0	50
3.2.4.2 DFD Level 1	51
3.2.4.3 DFD Level 2	53
3.2.4.4 DFD Level 3	58
3.2.5 Kamus Data	61
3.2.6 <i>Process Spesification (PSPEC)</i>	67
3.3 <i>User Interface</i>	86
3.3.1 <i>Desain User Interface</i>	86
3.3.1.1 <i>Layout User Interface</i>	86
3.3.1.2 <i>Layout User Interface Untuk Admin</i>	88
3.3.1.3 <i>Login</i>	89
3.3.1.4 <i>Register</i>	90
3.3.1.5 <i>Home</i>	91
3.3.1.6 <i>Destinations Guides</i>	93
3.3.1.7 <i>Contact Us</i>	94
3.3.1.8 <i>Company profile</i>	98
3.3.1.9 <i>Terms and Conditions</i>	99
3.3.1.10 Pemesanan	100
3.3.1.11 <i>Flight Data</i>	104
3.3.1.12 <i>Add Flight</i>	105
3.3.1.13 <i>Update Flight</i>	106
3.3.1.14 <i>Delete Flight</i>	107

3.3.1.15 Data <i>Plane</i>	108
3.3.1.16 Add <i>Plane</i>	109
3.3.1.17 Update <i>Plane</i>	110
3.3.1.18 Delete <i>Plane</i>	111
3.3.1.19 Data <i>Promotion</i>	111
3.3.1.20 Add <i>Promotion</i>	112
3.3.1.21 Updates <i>Promotion</i>	113
3.3.1.22 Delete <i>Promotion</i>	114
3.3.1.23 Detail <i>Reservation</i>	115
3.3.1.24 Admin <i>Contact Us</i>	116
BAB IV HASIL PENELITIAN	117
4.1 Instalasi <i>SugarCRM</i>	117
4.2 <i>Login SugarCRM</i>	125
4.3 <i>Home SugarCRM</i>	126
4.4 <i>Administration Home SugarCRM</i>	127
4.5 <i>System Setting SugarCRM</i>	128
4.6 <i>Administration Configure Tabs Groups</i>	129
4.7 <i>Administration Rename Tabs</i>	130
4.8 <i>Accounts SugarCRM</i>	131
4.9 <i>Opportunities SugarCRM</i>	132
4.10 <i>Campaigns SugarCRM</i>	133
4.11 <i>Reports</i>	134
4.12 Realisasi <i>Home</i>	135
4.13 Realisasi <i>Login</i>	136
4.14 Realisasi <i>Destinations Guides</i>	136
4.15 Realisasi <i>Terms and Conditions</i>	137
4.16 Realisasi <i>Contact Us</i>	138
4.17 Realisasi Pemesanan	142
4.18 Realisasi Pengisian Data Penumpang	143
4.19 Realisasi <i>Booking Code</i>	144
4.20 Realisasi <i>Company Profile</i>	145
4.21 Realisasi <i>Flight Admin</i>	145
4.22 Realisasi <i>Add Flight Admin</i>	146
4.23 Realisasi <i>Update Flight Admin</i>	147
4.24 Realisasi <i>Delete Flight Admin</i>	148
4.25 Realisasi <i>Plane Admin</i>	149

4.26 Realisasi <i>Add Plane</i>	149
4.27 Realisasi <i>Update Plane</i>	150
4.28 Realisasi <i>Delete Plane</i>	150
4.29 Realisasi <i>Reservation</i>	151
4.30 Realisasi <i>Reservation Details</i>	152
4.31 Realisasi <i>Contact Us Admin</i>	152
4.32 Realisasi <i>Promotion Admin</i>	153
4.33 Realisasi <i>Add Promotion Admin</i>	154
4.34 Realisasi <i>Update Promotion Admin</i>	155
4.35 Realisasi <i>Delete Promotion</i>	156
4.36 Realisasi <i>Currency</i>	156
4.37 Realisasi <i>Report</i>	157
4.38 Realisasi <i>Webservice Pembayaran</i>	157
BAB V PEMBAHASAN DAN UJI COBA HASIL PENELITIAN.....	159
5.1 <i>BlackBox</i>	159
5.1.1 Pengujian <i>Login</i>	159
5.1.2 Pengujian <i>Register</i>	160
5.1.3 Pengujian <i>Search Buy Ticket</i>	161
5.1.4 Pengujian <i>Contact Us</i>	161
5.1.5 Pengujian <i>Passenger</i>	162
5.1.6 Pengujian <i>Manage Booking</i>	163
5.1.7 Pengujian <i>Add Flight</i>	163
5.1.8 Pengujian <i>Update Flight</i>	164
5.1.9 Pengujian <i>Delete Flight</i>	164
5.1.10 Pengujian <i>Add Plane</i>	165
5.1.11 Pengujian <i>Update Plane</i>	166
5.1.12 Pengujian <i>Delete Plane</i>	166
5.1.13 Pengujian <i>Delete Contact Us</i>	167
5.1.14 Pengujian <i>Add Promotion</i>	167
5.1.15 Pengujian <i>Update Promotion</i>	168
5.1.16 Pengujian <i>Delete Promotion</i>	168
5.1.17 Pengujian <i>Update Currency</i>	169
BAB VI KESIMPULAN DAN SARAN	170
6.1 Kesimpulan	170
6.2 Saran	170
DAFTAR PUSTAKA	171

DAFTAR GAMBAR

Gambar 1 <i>Flowchart Proses Bisnis</i>	39
Gambar 2 Struktur Menu Admin CRM, Admin, dan Member.....	41
Gambar 3 ER – Diagram	43
Gambar 4 DFD Level 0	50
Gambar 5 DFD Level 1	51
Gambar 6 DFD Level 2 Proses 3 <i>Reservation</i>	53
Gambar 7 DFD Level 2 Proses 4 <i>Flight</i>	53
Gambar 8 DFD Level 2 Proses 5 <i>Plane</i>	54
Gambar 9 DFD Level 2 Proses 6 <i>Contact Us</i>	54
Gambar 10 DFD Level 2 Proses 7 <i>Promotion</i>	55
Gambar 11 DFD Level 2 Proses 8 <i>Currency</i>	55
Gambar 12 DFD Level 2 Proses 9 <i>Report</i>	56
Gambar 13 DFD Level 2 Proses 10 <i>Opportunities</i>	56
Gambar 14 DFD Level 2 Proses 11 <i>Campaigns</i>	57
Gambar 15 DFD Level 2 Proses 12 <i>Report SugarCRM</i>	57
Gambar 16 DFD Level 3 Proses 4 <i>Flight</i>	58
Gambar 17 DFD Level 3 Proses 5 <i>Plane</i>	58
Gambar 18 DFD Level 3 Proses 6 <i>Contact Us</i>	59
Gambar 19 DFD Level 3 Proses 7 <i>Promotion</i>	59
Gambar 20 DFD Level 3 Proses 10 <i>Opportunities</i>	60
Gambar 21 DFD Level 3 Proses 11 <i>Campaigns</i>	60
Gambar 22 <i>Layout Tampilan untuk Member</i>	86
Gambar 23 Pencarian Jadwal Pesawat	87
Gambar 24 Pengecekan Status <i>Booking</i>	87
Gambar 25 <i>Layout Admin</i>	88
Gambar 26 <i>Login</i>	89
Gambar 27 Registrasi member.....	90
Gambar 28 <i>Home Member</i>	91
Gambar 29 <i>Detail Promo</i>	92
Gambar 30 <i>Destinations Guides</i>	93
Gambar 31 <i>Contact Us Link</i>	94
Gambar 32 <i>Email Contact Us</i>	94
Gambar 33 <i>Office Contact Us</i>	95
Gambar 34 <i>Phone Contact Us</i>	96
Gambar 35 <i>Airport Contact Us</i>	97
Gambar 36 <i>Detail Airport Contact Us</i>	97
Gambar 37 <i>Company Profile</i>	98
Gambar 38 <i>Terms and conditions</i>	99
Gambar 39 Pemilihan Jadwal Penerbangan	100
Gambar 40 Form Data Penumpang	101
Gambar 41 Konfirmasi Pemesanan	102
Gambar 42 Data Member	103
Gambar 43 Data <i>Flight</i>	104
Gambar 44 Add <i>Flight</i>	105
Gambar 45 Update <i>Flight</i>	106
Gambar 46 Delete <i>Flight</i>	107
Gambar 47 <i>Plane Data</i>	108
Gambar 48 Add <i>Plane</i>	109

Gambar 49 <i>Update Plane</i>	110
Gambar 50 <i>Delete Plane</i>	111
Gambar 51 <i>Promotion Data</i>	111
Gambar 52 <i>Add Promotion</i>	112
Gambar 53 <i>Update Promotion</i>	113
Gambar 54 <i>Delete Promotion</i>	114
Gambar 55 <i>Detail Reservation</i>	115
Gambar 56 <i>Contact Us</i>	116
Gambar 57 Tahap Pertama Instalasi SugarCRM.....	117
Gambar 58 Tahap Dua Instalasi SugarCRM.....	117
Gambar 59 Tahap Tiga Instalasi SugarCRM	118
Gambar 60 Tahap Empat Instalasi SugarCRM.....	118
Gambar 61 Tahap Lima Instalasi SugarCRM.....	119
Gambar 62 Tahap Enam Instalasi SugarCRM.....	120
Gambar 63 Tahap Tujuh Instalasi SugarCRM	121
Gambar 64 Tahap Delapan Instalasi SugarCRM.....	121
Gambar 65 Tahap Sembilan Instalasi SugarCRM.....	122
Gambar 66 Tahap Sepuluh Instalasi SugarCRM	122
Gambar 67 Tahap Sebelas Instalasi SugarCRM.....	123
Gambar 68 Tahap Dua Belas Instalasi SugarCRM.....	123
Gambar 69 Tahap Tiga Belas Instalasi SugarCRM.....	124
Gambar 70 Tahap Empat Belas Instalasi SugarCRM	124
Gambar 71 Proses Intalasi SugarCRM.....	125
Gambar 72 <i>Login SugarCRM</i>	125
Gambar 73 <i>Home SugarCRM</i>	126
Gambar 74 <i>Administration Home SugarCRM</i>	127
Gambar 75 <i>System Setting SugarCRM</i>	128
Gambar 76 <i>Administration Configure Tabs Groups</i>	129
Gambar 77 <i>Administration Rename Tabs</i>	130
Gambar 78 <i>Accounts SugarCRM</i>	131
Gambar 79 <i>Opportunities SugarCRM</i>	132
Gambar 80 <i>Campaigns SugarCRM</i>	133
Gambar 81 <i>Reports</i>	134
Gambar 82 Realisasi <i>home</i>	135
Gambar 83 Realisasi <i>Login</i>	136
Gambar 84 Realisasi Destination Guides	136
Gambar 85 Realisasi <i>Terms and Conditions</i>	137
Gambar 86 Realisasi <i>Contact Us</i>	138
Gambar 87 Realisasi <i>Contact Us Email</i>	139
Gambar 88 Realisasi <i>Contact Us Office</i>	139
Gambar 89 Realisasi <i>Contact Us Customer Service</i>	140
Gambar 90 Realisasi <i>Contact Us Airport</i>	140
Gambar 91 Realisasi <i>Detail Airport</i>	141
Gambar 92 Realisasi Pemesanan Tahap 2.....	142
Gambar 93 Realisasi Pemesanan Tahap 3.....	143
Gambar 94 Realisasi akhir pemesanan	144
Gambar 95 Realisasi <i>Company Profile</i>	145
Gambar 96 Realisai <i>Data Flight</i>	145
Gambar 97 Realisasi <i>Add Flight</i>	146
Gambar 98 Realisasi <i>Update Filght</i>	147
Gambar 99 Realisasi <i>Delete Flight</i>	148

Gambar 100 Realisasi <i>Data Plane</i>	149
Gambar 101 Realisasi <i>Add Plane</i>	149
Gambar 102 Realisasi <i>Update Plane</i>	150
Gambar 103 Realisasi <i>Delete Plane</i>	150
Gambar 104 Realisasi <i>Reservasi Admin</i>	151
Gambar 105 Realisasi <i>Reservations Details Admin</i>	152
Gambar 106 Realisasi <i>Contact Us Admin</i>	152
Gambar 107 Realisasi <i>Promotion Data</i>	153
Gambar 108 Realisasi <i>Add Promotion Admin</i>	154
Gambar 109 Realisasi <i>Update Promotion Admin</i>	155
Gambar 110 Realisasi <i>Delete Promotion</i>	156
Gambar 111 Realisasi <i>Currency</i>	156
Gambar 112 Realisasi <i>Report</i>	157
Gambar 113 Realisasi Pembayaran Tahap Satu	157
Gambar 114 Realisasi Pembayaran Tahap Dua.....	158

DAFTAR TABEL

Tabel I Simbol khusus process <i>flowchart</i> (Febriani, 2003)	20
Tabel II Simbol <i>Flowchart</i> Standar (Febriani, 2003)	21
Tabel III Karakteristik Diagram Konteks (Mohiqbal, 2006).....	25
Tabel IV Komponen DFD (Mohiqbal, 2006)	25
Tabel V Simbol dalam kamus data (Mohiqbal, 2006)	28
Tabel VI Tabel <i>Accounts</i>	44
Tabel VII Tabel <i>Reservation</i>	44
Tabel VIII Tabel <i>Flight</i>	45
Tabel IX Tabel <i>Reservation_flight</i>	45
Tabel X Tabel <i>Plane</i>	45
Tabel XI Tabel <i>Passenger</i>	46
Tabel XII Tabel <i>Campaigns</i>	46
Tabel XIII Tabel <i>Opportunities</i>	47
Tabel XIV Tabel <i>Accounts_opportunities</i>	47
Tabel XV Tabel <i>Contactus</i>	48
Tabel XVI Tabel <i>Promotion</i>	48
Tabel XVII Tabel <i>Email_addresses</i>	48
Tabel XVIII Tabel <i>Email_addr_bean_rel</i>	49
Tabel XIX Tabel <i>Currency Email</i>	49
Tabel XX Kamus Data <i>Accounts</i>	61
Tabel XXI Kamus Data <i>Reservation</i>	61
Tabel XXII Kamus Data <i>Flight</i>	62
Tabel XXIII Kamus Data <i>Reservation_Flight</i>	62
Tabel XXIV Kamus Data <i>Plane</i>	63
Tabel XXV Kamus Data <i>Passenger</i>	63
Tabel XXVI Kamus Data <i>Campaigns</i>	64
Tabel XXVII Kamus Data <i>Opportunities</i>	64
Tabel XXVIII Kamus Data <i>Account_Opportunities</i>	65
Tabel XXIX Kamus Data <i>Contact Us</i>	65
Tabel XXX Kamus Data <i>Promotion</i>	66
Tabel XXXI Kamus Data <i>Email_addresses</i>	66
Tabel XXXII Kamus Data <i>Email_addr_bean_rel</i>	66
Tabel XXXIII PSPEC Proses 3.1 Lihat Data <i>Reservation</i>	67
Tabel XXXIV PSPEC Proses 3.2 Lihat Data Detail <i>Reservation</i>	67
Tabel XXXV PSPEC Proses 3.3 Tambah Data <i>Reservation</i>	68
Tabel XXXVI PSPEC Proses 4.1 Lihat Data <i>Flight</i>	69
Tabel XXXVII PSPEC Proses 4.2 Cari Data <i>Flight</i>	69
Tabel XXXVIII PSPEC Proses 5.1 Lihat Data <i>Plane</i>	70
Tabel XXXIX PSPEC Proses 5.2 Cari Data <i>Plane</i>	70
Tabel XL PSPEC Proses 6.1 Lihat Data <i>Contact Us</i>	70
Tabel XLI PSPEC Proses 6.2 Cari Data <i>Contact Us</i>	71
Tabel XLII PSPEC Proses 7.1 Lihat Data <i>Promotion</i>	71
Tabel XLIII PSPEC Proses 8.1 Lihat Data <i>Currency</i>	72
Table XLIV PSPEC Proses 8.2 Ubah Data <i>Currency</i>	72
Tabel XLV PSPEC Proses 9.1 Lihat Data <i>Report</i>	73
Tabel XLVI PSPEC Proses 9.2 Cari Data <i>Report</i>	73
Table XLVII PSPEC Proses 10.1 Lihat Data <i>Opportunities</i>	74

Table XLVIII PSPEC Proses 10.2 Cari Data <i>Opportunities</i>	74
Table XLIX PSPEC Proses 11.1 Lihat Data <i>Campaigns</i>	75
Table L PSPEC Proses 11.2 Cari Data <i>Campaigns</i>	75
Table LI PSPEC Proses 12.1 Lihat Data <i>Report SugarCRM</i>	76
Table LII PSPEC Proses 12.2 Cari Data <i>Report SugarCRM</i>	76
Tabel LIII PSPEC Proses 4.3.1 Pilih Data <i>Flight</i>	77
Tabel LIV PSPEC Proses 4.3.2 Hapus Data <i>Flight</i>	77
Tabel LV PSPEC Proses 4.3.3 Tambah Data <i>Flight</i>	78
Tabel LVI PSPEC Proses 4.3.4 Ubah Data <i>Flight</i>	78
Tabel LVII PSPEC Proses 5.3.1 Hapus Data <i>Plane</i>	79
Tabel LVIII PSPEC Proses 5.3.2 Tambah Data <i>Plane</i>	79
Tabel LIX PSPEC Proses 5.3.3 Ubah Data <i>Plane</i>	80
Tabel LX PSPEC Proses 6.3.1 Hapus Data <i>Contact Us</i>	80
Tabel LXI PSPEC Proses 6.3.2 Tambah Data <i>Contact Us</i>	81
Tabel LXII PSPEC Proses 7.2.1 Hapus Data <i>Promotion</i>	81
Tabel LXIII PSPEC Proses 7.2.2 Tambah Data <i>Promotion</i>	82
Tabel LXIV PSPEC Proses 7.2.3 Ubah Data <i>Promotion</i>	82
Table LXV PSPEC Proses 10.3.1 Hapus Data <i>Opportunities</i>	83
Table LXVI PSPEC Proses 10.3.2 Tambah Data <i>Opportunities</i>	83
Table LXVII PSPEC Proses 10.3.3 Ubah Data <i>Opportunities</i>	84
Table LXVIII PSPEC Proses 11.3.1 Hapus Data <i>Campaigns</i>	84
Table LXIX PSPEC Proses 11.3.2 Tambah Data <i>Campaigns</i>	85
Table LXX PSPEC Proses 11.3.3 Ubah Data <i>Campaigns</i>	85
Tabel LXXI Pengujian <i>Login</i>	159
Tabel LXXII Pengujian <i>Register</i>	160
Tabel LXXIII Pengujian <i>Search</i>	161
Tabel LXXIV Pengujian <i>Contact Us</i>	162
Tabel LXXV Pengujian <i>Passenger</i>	163
Tabel LXXVI Pengujian <i>Manage Booking</i>	163
Tabel LXXVII Pengujian <i>Add Flight</i>	164
Tabel LXXVIII Pengujian <i>Update Flight</i>	165
Tabel LXXIX Pengujian <i>Delete Flight</i>	165
Tabel LXXX Pengujian <i>Add Plane</i>	166
Tabel LXXXI Pengujian <i>Update Plane</i>	166
Tabel LXXXII Pengujian <i>Delete Plane</i>	167
Tabel LXXXIII Pengujian <i>Delete Contact Us</i>	167
Tabel LXXXIV Pengujian <i>Add Promotion</i>	168
Tabel LXXXV Pengujian <i>Update Promotion</i>	168
Tabel LXXXVI Pengujian <i>Delete Promotion</i>	169

DAFTAR LAMPIRAN

LAMPIRAN A.....A.1