

ABSTRAK

Indonesia sebagai salah satu negara tujuan wisata dunia menyebabkan banyak kalangan masyarakat seperti wisatawan lokal maupun mancanegara yang mencari informasi hotel di tempat yang akan dikunjungi. Pengolahan informasi hotel diubah menjadi sebuah aplikasi *web* yang lebih efektif, sehingga dimanapun pengguna berada bisa mengakses aplikasi *web* ini. *Website* ini menyediakan informasi alamat hotel, kontak hotel, data kamar, dan informasi lainnya. Kehadiran *website* informasi hotel akan sangat membantu masyarakat dalam mencari hotel dan informasi untuk memilih hotel sesuai kebutuhan. *Website* ini akan dikembangkan dengan beberapa fitur utama, yaitu *email gateway* dan *Google Map*. Teknologi yang digunakan dalam membangun *website* ini adalah ASP.NET dengan bahasa pemrograman VB.NET, dilengkapi dengan Ajax *Control Toolkit* dan jQuery. Keuntungan dari aplikasi *web* ini adalah memudahkan masyarakat untuk mendapatkan informasi tentang hotel yang dibutuhkan dan sistem pencarian hotel berdasarkan kriteria yang telah disediakan.

Kata kunci: aplikasi *web*, ASP.NET, *google map*, informasi hotel

ABSTRACT

Indonesia as one of the international tourism destination causes a lot of people such as local and foreign tourists seeking information about the hotel which they want to visited. Hotel information processing is changed into a web application which more effective, so that wherever the user is able to access this web application. This website provides information hotel address, hotel contacts, data rooms, and other information. The presence of hotel information website will help people in finding the hotel and get to choose as needed. This website will be developed with some of the main features, the email gateway and Google Map. The technology used to building this website is ASP.NET with VB.NET programming language, with the Ajax Control Toolkit and jQuery. The advantage of this is a web application allows people to get the required information about the hotel and hotel search system based on criteria that have been provided.

Keywords: *web application, ASP.NET, google map, hotel information*

DAFTAR ISI

LEMBAR PENGESAHAN	i
LEMBAR PERNYATAAN ORISINALITAS LAPORAN	ii
LEMBAR PERNYATAAN PERSETUJUAN PUBLIKASI KARYA ILMIAH UNTUK KEPENTINGAN AKADEMIS	iii
KATA PENGANTAR.....	iv
ABSTRAK	vi
ABSTRACT	vii
DAFTAR ISI.....	viii
DAFTAR GAMBAR.....	xiii
DAFTAR TABEL	xvii
DAFTAR LAMPIRAN.....	xviii
BAB I PENDAHULUAN	1
1.1 Latar Belakang.....	1
1.2 Rumusan Masalah.....	1
1.3 Tujuan	1
1.4 Batasan Masalah.....	2
1.5 Sistematika Pembahasan	2
BAB II DASAR TEORI.....	4
2.1 Manajemen Hotel	4
2.1.1. Definisi Hotel	4
2.1.2. Klasifikasi Hotel	4
2.2 Unified Modeling Language (UML)	6
2.2.1. Use Case Diagram.....	7
2.2.2. Activity Diagram	8
2.3 Entity Relationship Diagram (ERD).....	9
2.3.1. Entitas.....	10
2.3.2. Kardinalitas.....	10
2.3.3. Key (Kunci).....	11
2.3.4. Transformasi Relasi Biner	12
2.4 Hyper Text Markup Language (HTML)	14
2.5 ASP.NET.....	14
2.6 .NET Framework.....	15
2.7 Visual Basic .NET (VB .NET)	15
2.8 Web Server IIS.....	16
2.9 Microsoft SQL Server	16

2.10 Basis Data (Database)	18
2.11 AJAX Control Toolkit	18
2.12 Google Map API	19
2.13 Captcha	19
2.14 Blackbox Testing	19
BAB III ANALISA DAN PEMODELAN	20
3.1 Proses Bisnis.....	20
3.1.1. Sistematika Kerja Sign In	21
3.1.2. Sistematika Kerja Sign Out	22
3.1.3. Sistematika Kerja Kelola Profile.....	22
3.1.4. Sistematika Kerja Melihat Info Hotel.....	25
3.1.5. Sistematika Kerja Melakukan Pencarian Hotel.....	26
3.1.6. Sistematika Kerja Melihat Lokasi Seluruh Hotel.....	27
3.1.7. Sistematika Kerja Kelola Data Admin Hotel.....	27
3.1.8. Sistematika Kerja Kelola Data Admin	29
3.1.9. Sistematika Kerja Kelola Info Hotel	31
3.1.10. Sistematika Kerja Kelola Report.....	46
3.1.11. Sistematika Kerja Kelola Pertanyaan	48
3.1.12. Sistematika Kerja Mengirim Report.....	49
3.1.13. Sistematika Kerja Mengirim Pertanyaan	50
3.1.14. Sistematika Kerja Forget Password	51
3.2 Entity Relational Diagram (ERD)	52
3.3 Web Map Aplikasi	53
3.4 Layout (User Interface Design)	54
3.4.1. Menu Utama	54
3.4.2. Menu User	55
3.4.3. Menu Footer.....	56
3.4.4. Halaman Sign In	56
3.4.5. Menu Sign Out.....	56
3.4.6. Halaman Home.....	57
3.4.7. Halaman Contact Us	58
3.4.8. Halaman Hotel Partner Info	59
3.4.9. Halaman About Us.....	59
3.4.10. Halaman Report.....	60
3.4.11. Halaman View Map	60
3.4.12. Halaman Hotel Detail.....	61
3.4.13. Halaman Room Detail	62

3.4.14.	Halaman Profile	62
3.4.15.	Halaman Forget Password (Reset Password)	64
3.4.16.	Halaman Manage Admin Hotel	65
3.4.17.	Halaman Manage Admin	66
3.4.18.	Halaman View Report.....	67
3.4.19.	Halaman My Hotel.....	68
3.4.20.	Halaman Manage Report.....	74
3.4.21.	Halaman Advance Search	74
3.4.22.	Halaman Manage Question	75
BAB IV PERANCANGAN DAN IMPLEMENTASI.....		76
4.1	Implementasi Tabel Relasi	76
4.2	Implementasi Halaman	76
4.2.1.	Menu Utama	76
4.2.2.	Menu User.....	77
4.2.3.	Menu Footer.....	77
4.2.4.	Halaman Sign In.....	77
4.2.5.	Menu Sign Out.....	78
4.2.6.	Halaman Home.....	78
4.2.7.	Halaman Contact Us	80
4.2.8.	Halaman Hotel Partner Info	81
4.2.9.	Halaman About Us.....	81
4.2.10.	Halaman Report.....	81
4.2.11.	Halaman View Map	82
4.2.12.	Halaman Hotel Detail.....	83
4.2.13.	Halaman Room Detail	84
4.2.14.	Halaman Profile	85
4.2.15.	Halaman Forget Password (Reset Password)	88
4.2.16.	Halaman Manage Admin Hotel	89
4.2.17.	Halaman Manage Admin	90
4.2.18.	Halaman View Report.....	92
4.2.19.	Halaman My Hotel.....	93
4.2.20.	Halaman Manage Report.....	102
4.2.21.	Halaman Advance Search	103
4.2.22.	Halaman Manage Question	104
4.3	Implementasi Kode Store Procedure	105
4.3.1.	Store Procedure sp_signUpHotel	105
4.3.2.	Store Procedure sp_report.....	106

4.3.3.	Store Procedure sp_editProfile	107
4.3.4.	Store Procedure sp_addAdmin	107
4.3.5.	Store Procedure sp_editAdmin	108
4.3.6.	Store Procedure sp_addHotel	109
4.3.7.	Store Procedure sp_editHotel.....	110
4.3.8.	Store Procedure sp_addHotelRoom.....	111
4.3.9.	Store Procedure sp_editHotelRoom	111
4.3.10.	Store Procedure sp_addHotelFacility	112
4.3.11.	Store Procedure sp_editHotelFacility.....	113
4.3.12.	Store Procedure sp_addHotelPicture	113
4.3.13.	Store Procedure sp_editHotelPicture.....	114
4.3.14.	Store Procedure sp_addRoomPicture	114
4.3.15.	Store Procedure sp_question	115
4.3.16.	Store Procedure sp_replyQuestion	115
4.3.17.	Store Procedure sp_saveMap.....	116
4.3.18.	Store Procedure sp_deleteReport	116
4.3.19.	Store Procedure sp_deleteQuestion	117
4.3.20.	Store Procedure sp_viewRoom	117
4.4	Implementasi Kode View	118
4.4.1.	View Admin_View	118
4.4.2.	View AdminHotel_View.....	119
4.4.3.	View Hotel_View	119
4.4.4.	View Report_View	119
4.4.5.	View HotelRoom_View.....	120
4.4.6.	View HotelFacility_View.....	120
4.4.7.	View HotelPicture_View	120
4.4.8.	View RoomPicture_View	120
4.4.9.	View Search_View	121
BAB V PENGUJIAN.....		122
5.1	Blackbox Testing	122
5.1.1.	Fitur Sign In.....	122
5.1.2.	Fitur Add Admin Hotel (Menu Manage Admin)	123
5.1.3.	Fitur Reset Password (Halaman Forget Password).....	124
5.1.4.	Fitur Quick Search (Halaman Home)	124
5.1.5.	Fitur Contact Us	125
5.1.6.	Fitur Report	125
5.1.7.	Fitur Edit Profile (Menu Profile)	126

5.1.8.	Fitur Change Password (Menu Profile)	126
5.1.9.	Fitur Change Security Question (Menu Profile)	127
5.1.10.	Fitur Add Admin (Menu Manage Admin)	128
5.1.11.	Fitur Edit Admin (Menu Manage Admin)	129
5.1.12.	Fitur Add Hotel (Menu My Hotel - Hotel List)	129
5.1.13.	Fitur Edit Hotel (Menu My Hotel - Hotel List)	130
5.1.14.	Fitur Add Room (Menu My Hotel - Manage Room)	130
5.1.15.	Fitur Edit Room (Menu My Hotel - Manage Room)	131
5.1.16.	Fitur Add Facility (Menu My Hotel - Manage Facility)	132
5.1.17.	Fitur Edit Facility (Menu My Hotel - Manage Facility)	132
5.1.18.	Fitur Manage Location (Menu My Hotel - Hotel Location)	133
5.1.19.	Fitur Add Hotel Picture (Menu My Hotel - Hotel Picture)	134
5.1.20.	Fitur Edit Hotel Picture (Menu My Hotel - Hotel Picture)	134
5.1.21.	Fitur Manage Room Picture (Menu My Hotel - Room Picture)	135
5.1.22.	Fitur Advance Search	135
5.1.23.	Fitur Manage Question (Menu View Question)	136
5.2	Hasil Kuisioner	137
5.2.1.	Ketersediaan informasi tentang kontak hotel	137
5.2.2.	Ketersediaan informasi kamar hotel dan detail kamar hotel	137
5.2.3.	Ketersediaan informasi fasilitas hotel dan deskripsi fasilitas	138
5.2.4.	Ketersediaan gambar hotel dan gambar kamar	138
5.2.5.	Ketersediaan peta lokasi hotel (Google Map)	138
5.2.6.	Fitur Report	139
5.2.7.	Fitur Contact Us	139
BAB VI SIMPULAN DAN SARAN		140
6.1	Simpulan	140
6.2	Saran	140
DAFTAR PUSTAKA		141

DAFTAR GAMBAR

Gambar 2. 1 Diagram UML	7
Gambar 2. 2 Contoh Use Case	8
Gambar 2. 3 Contoh Activity	9
Gambar 2. 4 Entitas	10
Gambar 2. 5 Himpunan Relasi 1-1.....	12
Gambar 2. 6 Transformasi Tabel Relasi 1-1.....	12
Gambar 2. 7 Himpunan Relasi 1-N / N-1	13
Gambar 2. 8 Transformasi Tabel Relasi 1-N / N-1	13
Gambar 2. 9 Himpunan Relasi M-N.....	13
Gambar 2. 10 Transfomasi Tabel Relasi M-N	14
Gambar 3. 1 Use Case Diagram	21
Gambar 3. 2 Activity Diagram Sign In.....	22
Gambar 3. 3 Activity Diagram Sign Out.....	22
Gambar 3. 4 Activity Diagram View Profile	23
Gambar 3. 5 Activity Diagram Edit Profile.....	23
Gambar 3. 6 Activity Diagram Change Password	24
Gambar 3. 7 Activity Diagram Change Security Question	25
Gambar 3. 8 Activity Diagram Melihat Info Hotel	26
Gambar 3. 9 Activity Diagram Quick Search.....	26
Gambar 3. 10 Activity Diagram Advance Search	27
Gambar 3. 11 Activity Diagram Melihat Lokasi Seluruh Hotel	27
Gambar 3. 12 Activity Diagram Add Admin Hotel	28
Gambar 3. 13 Activity Diagram Delete Admin Hotel.....	29
Gambar 3. 14 Activity Diagram Add Admin.....	30
Gambar 3. 15 Activity Diagram Edit Admin	30
Gambar 3. 16 Activity Diagram Delete Admin	31
Gambar 3. 17 Activity Diagram Add Hotel	32
Gambar 3. 18 Activity Diagram Edit Hotel.....	33
Gambar 3. 19 Activity Diagram Delete Hotel	34
Gambar 3. 20 Activity Diagram Add Hotel Room	35
Gambar 3. 21 Activity Diagram Edit Hotel Room	36
Gambar 3. 22 Activity Diagram Delete Hotel Room.....	37
Gambar 3. 23 Activity Diagram Add Hotel Facility	38
Gambar 3. 24 Activity Diagram Edit Hotel Facility	39

Gambar 3. 25 Activity Diagram Delete Hotel Facility	40
Gambar 3. 26 Activity Diagram Add Hotel Picture	41
Gambar 3. 27 Activity Diagram Edit Hotel Picture	42
Gambar 3. 28 Activity Diagram Delete Hotel Picture	43
Gambar 3. 29 Activity Diagram Add Room Picture	44
Gambar 3. 30 Activity Diagram Delete Room Picture	45
Gambar 3. 31 Activity Diagram Manage Hotel Location	46
Gambar 3. 32 Activity Diagram View Report.....	47
Gambar 3. 33 Activity Diagram Manage Report	48
Gambar 3. 34 Activity Diagram Kelola Pertanyaan	49
Gambar 3. 35 Activity Diagram Mengirim Report.....	50
Gambar 3. 36 Activity Diagram Mengirim Pertanyaan	51
Gambar 3. 37 Activity Diagram Forget Password.....	52
Gambar 3. 38 Entity Relational Diagram (ERD)	53
Gambar 3. 39 Web Map Aplikasi.....	54
Gambar 3. 40 Layout Menu Utama.....	55
Gambar 3. 41 Layout Menu User	55
Gambar 3. 42 Layout Menu Footer	56
Gambar 3. 43 Layout Halaman Sign In	56
Gambar 3. 44 Layout Menu Sign Out	56
Gambar 3. 45 Layout Halaman Home	57
Gambar 3. 46 Layout Halaman Search	58
Gambar 3. 47 Layout Halaman Contact Us	58
Gambar 3. 48 Layout Halaman Hotel Partner Info.....	59
Gambar 3. 49 Layout Halaman About Us	59
Gambar 3. 50 Layout Halaman Report	60
Gambar 3. 51 Layout Halaman View Map.....	60
Gambar 3. 52 Layout Halaman Hotel Detail.....	61
Gambar 3. 53 Layout Halaman Room Detail.....	62
Gambar 3. 54 Layout Halaman Profile (View Profile).....	62
Gambar 3. 55 Layout Halaman Profile (Edit Profile)	63
Gambar 3. 56 Layout Halaman Profile (Change Password).....	63
Gambar 3. 57 Layout Halaman Change Security Question	64
Gambar 3. 58 Layout Halaman Forget Password	65
Gambar 3. 59 Layout Halaman Manage Admin Hotel.....	65
Gambar 3. 60 Layout Halaman Manage Admin (Add Admin)	66
Gambar 3. 61 Layout Halaman Manage Admin (Edit Admin)	67

Gambar 3. 62 Layout Halaman View Report	67
Gambar 3. 63 Layout Halaman My Hotel (My Hotel List-Add New Hotel).....	68
Gambar 3. 64 Layout Halaman My Hotel (My Hotel List-Edit Hotel)	69
Gambar 3. 65 Layout Halaman My Hotel (Manage My Hotel-Manage Hotel Room)	70
Gambar 3. 66 Layout Halaman My Hotel (Manage My Hotel-Manage Hotel Facilities)	71
Gambar 3. 67 Layout Halaman My Hotel (Manage Hotel Location)	72
Gambar 3. 68 Layout Halaman My Hotel (Hotel Picture Gallery-Add New Picture)	72
Gambar 3. 69 Layout Halaman My Hotel (Hotel Picture Gallery-Edit Picture).....	73
Gambar 3. 70 Layout Halaman My Hotel (Room Picture Gallery).....	73
Gambar 3. 71 Layout Halaman Manage Report.....	74
Gambar 3. 72 Layout Halaman Advance Search	74
Gambar 3. 73 Layout Halaman Manage Question	75
Gambar 4. 1 Relationship Diagram	76
Gambar 4. 2 Implemantasi Menu Utama.....	77
Gambar 4. 3 Implementasi Menu User	77
Gambar 4. 4 Implementasi Menu Footer.....	77
Gambar 4. 5 Implementasi Halaman Sign In	77
Gambar 4. 6 Implementasi Menu Sign Out	78
Gambar 4. 7 Implementasi Halaman Home	79
Gambar 4. 8 Implementasi Halaman Search	79
Gambar 4. 9 Implementasi Halaman Contact Us	80
Gambar 4. 10 Implementasi Halaman Hotel Partner Info.....	81
Gambar 4. 11 Implementasi Halaman About Us.....	81
Gambar 4. 12 Implementasi Halaman Report.....	82
Gambar 4. 13 Implementasi Halaman View Map	82
Gambar 4. 14 Implementasi Halaman Hotel Detail (Part 1).....	83
Gambar 4. 15 Implementasi Halaman Hotel Detail (Part 2).....	84
Gambar 4. 16 Implementasi Halaman Room Detail	85
Gambar 4. 17 Implementasi Halaman Profile (View)	85
Gambar 4. 18 Implementasi Halaman Profile (Edit).....	86
Gambar 4. 19 Implementasi Halaman Profile (Change Password)	87
Gambar 4. 20 Implementasi Halaman Profile (Change Security Question - Langkah 1)	87
Gambar 4. 21 Implementasi Halaman Profile (Change Security Question - Langkah 2)	88
Gambar 4. 22 Implementasi Halaman Forget Password (Reset Password) - Langkah 1	88
Gambar 4. 23 Implementasi Halaman Forget Password (Reset Password) - Langkah 2	88
Gambar 4. 24 Implementasi Halaman Manage Admin Hotel	89
Gambar 4. 25 Implementasi Halaman Manage Admin (Add)	90

Gambar 4. 26 Implementasi Halaman Manage Admin (Edit).....	91
Gambar 4. 27 Implementasi Halaman View Report.....	92
Gambar 4. 28 Implementasi Halaman My Hotel (My Hotel List-Add).....	93
Gambar 4. 29 Implementasi Halaman My Hotel (My Hotel List-Edit).....	94
Gambar 4. 30 Implementasi Halaman My Hotel (Manage My Hotel-Room).....	95
Gambar 4. 31 Implementasi Halaman My Hotel (Manage My Hotel-Facilities)	97
Gambar 4. 32 Implementasi Halaman My Hotel (Manage Hotel Location)	98
Gambar 4. 33 Implementasi Halaman My Hotel (Manage Hotel Picture-Add).....	99
Gambar 4. 34 Implementasi Halaman My Hotel (Manage Hotel Picture-Edit).....	100
Gambar 4. 35 Implementasi Halaman My Hotel (Manage Room Picture).....	101
Gambar 4. 36 Implementasi Halaman Manage Report.....	103
Gambar 4. 37 Implementasi Halaman Advance Search	104
Gambar 4. 38 Implementasi Halaman Manage Question	105

DAFTAR TABEL

Tabel 2. 1 Simbol Use Case Diagram	7
Tabel 2. 2 Simbol Activity Diagram.....	9
Tabel 2. 3 Simbol ERD.....	10
Tabel 2. 4 Relasi Kardinalitas.....	11
Tabel 3. 1 Pembagian Menu User	55
Tabel 5. 1 Hasil Kuisioner - Ketersediaan informasi tentang kontak hotel	137
Tabel 5. 2 Hasil Kuisioner - Ketersediaan informasi kamar hotel dan detail kamar hotel	137
Tabel 5. 3 Hasil Kuisioner - Ketersediaan informasi fasilitas hotel dan deskripsi fasilitas	138
Tabel 5. 4 Hasil Kuisioner - Ketersediaan gambar hotel dan gambar kamar	138
Tabel 5. 5 Hasil Kuisioner - Ketersediaan peta lokasi hotel (Google Map).....	138
Tabel 5. 6 Hasil Kuisioner - Fitur Report.....	139
Tabel 5. 7 Hasil Kuisioner - Fitur Contact Us	139

DAFTAR LAMPIRAN

LAMPIRAN A ENTITAS DAN KAMUS DATA	A.1
LAMPIRAN B KUISIONER	B.1
LAMPIRAN C RIWAYAT HIDUP PENULIS	C.1