

## **ABSTRAK**

*Problem with price competition with competitor that more tight. The company needs application that can help for monitor the price competition with competitor and know who will be the main competitor*

*Sources are from books and internet. And technuqe research that is use is analysis. This application is based on PHP, and all data are stored in MySQL database.*

*“Aplikasi Report Perbandingan Harga Menggunakan Pie Chart Dengan Libchart PHP Di PT. X” is an report application for price comparison. The view of reports are in pie chart for global infomation and in table for specific information.*

# DAFTAR ISI

LEMBAR PENGESAHAN .....	ii
SURAT PERNYATAAN ORISINALITAS KARYA .....	iii
PERNYATAAN PUBLIKASI LAPORAN PENELITIAN .....	iv
KATA PENGANTAR .....	v
ABSTRAK.....	vi
DAFTAR ISI.....	vii
DAFTAR GAMBAR.....	viii
DAFTAR TABEL.....	ix
BAB I PENDAHULUAN.....	1
1.1 Latar Belakang Masalah .....	1
1.2 Perumusan Masalah .....	2
1.3 Tujuan Pembahasan .....	2
1.4 Ruang Lingkup Kajian .....	2
1.5 Sumber Data.....	3
1.6 Sistematika Penulisan.....	4
BAB II LANDASAN TEORI.....	5
II.1 DFD (Data Flow Diagram).....	5
II.1.1 Terminator atau External Entity.....	5
II.1.2 Proses .....	5
II.1.3 Data Store (Penyimpanan Data) .....	6
II.2 Pengertian Database .....	7
II.3 Konsep Dasar Entity Relationship Diagram (ERD).....	7
II.3.1 Komponen Entity Relationship Diagram.....	7
II.3.2 Kardinalitas dalam Relationship.....	8
II.4 PHP .....	9
II.5 MySQL.....	10
II.6 Flowchart .....	11
II.7 PIVOT TABLE.....	12
II.8 LIBCHART PHP.....	13
BAB III ANALISIS DAN RANCANGAN SISTEM.....	14
III.1 Analisis .....	14
III.2 Rancangan Sistem.....	18
III.2.1 Entity Relational Diagram .....	18
III.2.2 Data Tabel.....	19
III.3 Data Flow Diagram .....	27
III.3.1 Context Diagram.....	27
III.3.2 DFD Level 1.....	28
III.3.3 DFD Level 2.....	29
III.4 Kamus Data .....	30
III.5 PSPEC.....	35
III.6 Desain Antar Muka.....	40
BAB IV HASIL PENELITIAN.....	47
BAB V PEMBAHASAN DAN UJI COBAHASIL PENELITIAN.....	58
Test Case .....	58
BAB VI SIMPULAN DAN SARAN .....	61
VI.1 Simpulan.....	61
VI.2 Saran .....	62
DAFTAR PUSTAKA.....	xi

## DAFTAR GAMBAR

Gambar II.1 Simbol Terminator.....	5
Gambar II.2 Simbol Proses .....	6
Gambar II.3 Simbol Data Store .....	7
Gambar II.4 Kardinalitas 1 : 1 .....	9
Gambar II.5 Kardinalitas 1 : M.....	9
Gambar II.6 Kardinalitas M : N.....	9
Gambar II.7 GD dan FreeType libraries .....	13
Gambar II.8 Pie Chart.....	13
Gambar III.1 Proses Bisnis Kegiatan Survey.....	14
Gambar III.2 Entity Relational Diagram (ERD).....	18
Gambar III.3 Relasi Antar Tabel.....	26
Gambar III.4 Context Diagram .....	27
Gambar III.5 DFD Level 1.....	28
Gambar III.6 DFD Level 2 Proses 3 .....	29
Gambar III.8 Rancangan Update Harga Barang Survey .....	40
Gambar III.9 Rancangan Pencetakan Data Perbandingan Harga Barang Wilayah.....	41
Gambar III.10 Rancangan Pencetakan Data Perbandingan Harga Barang Cabang .....	42
Gambar III.11 Rancangan Pencetakan Data Perbandingan Harga Barang Kompetitor....	43
Gambar III.12 Rancangan Pencetakan Data Cabang Kompetitor.....	44
Gambar III.13 Rancangan Pencetakan Data History Survey .....	45
Gambar III.13 Rancangan Pencetakan Data Barang Cabang.....	46
Gambar IV.2 Tampilan Home Untuk Manager Cabang .....	48
Gambar IV.3 Tampilan Awal Report Perbandingan Harga .....	49
Gambar IV.4 Tampilan Report Perbandingan Harga Kompetitor .....	50
Gambar IV.5 Tampilan Report Perbandingan Harga Cabang vs Kompetitor.....	51
Gambar IV.6 Tampilan Report Perbandingan Harga Detail Cabang.....	52
Gambar IV.8 Tampilan Report Cabang vs Kompetitor .....	54
Gambar IV.9 Tampilan Report History Survey .....	55
Gambar IV.10 Tampilan Report History User.....	56
Gambar IV.11 Tampilan Report History Barang Survey.....	57

## DAFTAR TABEL

Tabel II.1 Tabel Komponen Utama ERD .....	8
Tabel II.2 Tabel Simbol-simbol Flowchart.....	11
Tabel III.1 Tabel Daftar Wilayah dan Cabang.....	15
Tabel III.2 Tabel t_role .....	19
Tabel III.3 Tabel t_user.....	19
Tabel III.4 Tabel t_wilayah.....	20
Tabel III.5 Tabel t_cabang .....	20
Tabel III.6 Tabel t_barang .....	21
Tabel III.7 Tabel t_competitor .....	21
Tabel III.8 Tabel t_survey_hdr .....	22
Tabel III.9 Tabel t_survey_det.....	22
Tabel III.10 Tabel Melakukan_Survey .....	23
Tabel III.11 Tabel Memiliki_Brg.....	23
Tabel III.12 Tabel Mempunyai_Cpt .....	23
Tabel III.13 Tabel Temp .....	24
Tabel III.14 Tabel Temp_Barang.....	25
Tabel III.15 Kamus Data Tabel t_role .....	30
Tabel III.16 Kamus Data Tabel t_user.....	30
Tabel III.17 Kamus Data Tabel t_wilayah.....	31
Tabel III.18 Kamus Data Tabel t_cabang .....	31
Tabel III.19 Kamus Data Tabel t_barang.....	31
Tabel III.20 Kamus Data Tabel t_competitor .....	32
Tabel III.21 Kamus Data Tabel t_survey_hdr.....	32
Tabel III.22 Kamus Data Tabel t_survey_det.....	33
Tabel III.23 Kamus Data Tabel Melakukan_Survey .....	33
Tabel III.24 Kamus Data Tabel Memiliki_Brg.....	33
Tabel III.25 Kamus Data Tabel Mempunyai_Cpt.....	34
Tabel III.26 Kamus Data Tabel Temp .....	34
Tabel III.27 Kamus Data Tabel Temp_Barang.....	35
Tabel III.28 PSPEC Update_Harga_Barang_Survey.....	35
Tabel III.29 PSPEC Perbandingan_Harga_Barang.....	36
Tabel III.30 PSPEC Pencetakan_Data_Perbandingan_Harga_Barang_Wilayah .....	37
Tabel III.31 PSPEC Pencetakan_Data_Perbandingan_Harga_Barang_Cabang.....	37

Tabel III.32 PSPEC Pencetakan_Data_Perbandingan_Harga_Barang_Kompetitor .....	38
Tabel III.33 PSPEC Pencetakan_Data_Cabang_Kompetitor .....	38
Tabel III.34 PSPEC Pencetakan_Data_Barang_Cabang .....	38
Tabel III.35 PSPEC Pencetakan_Data_History_Survey .....	39
Tabel V.1 Test Case Halaman Report Perbandingan Harga .....	58
Tabel V.2 Test Case Halaman Report Barang Cabang .....	58
Tabel V.3 Test Case Halaman Report History Survey .....	59