ABSTRAK

PT. FELIXINDO adalah perusahaan yang bergerak di bidang jasa desain, kontraktor CME (Continuing Medical Education), perdagangan umum dan isntalasi mekanikal elektrikal. Jenis pengerjaan yang ditangani disebut proyek. Proyek yang dikerjakan tidak satu jenis, tetapi seluruh jenis proyek memiliki dua jenis biaya, yaitu biaya material dan biaya overhead. Pencatatan transaksi yang dilakukan tercatat dalam Microsoft Excel 2003 yang menghasilkan sebuah laporan yang disebut dengan laporan pertanggungjawaban proyek. Hingga saat ini, jurnal, buku besar dan laporan laba rugi tidak menjadi output dalam pelaporan proyek. Oleh sebab itu dibuatlah sistem yang dapat membantu bagian keuangan untuk mencatat seluruh transaksi dalam pengerjaan proyek dan menampilkan data dalam laporan rekapitulasi, laporan pertanggungjawaban proyek, jurnal umum, buku besar dan laporan laba rugi. Sistem ini dibuat menggunakan bahasa pemrograman terstruktur PHP dan MySQL. Hasil pengembangan dan pengujian aplikasi menunjukkan bahwa fitur-fitur pada aplikasi dapat membantu pengelolaan data keuangan proyek.

Kata Kunci: proyek, biaya, anggaran
ABSTRACT

PT. FELIXINDO is a company that provides construction design service, contractor CME (Continuing Medical Education) contract service, general trading services and electrical mechanic instalation. The type of works they handle are called projects. There are many types of projects, each of these passeses two types of costs, material costs and overhead costs. The transactions were normally recorded by Microsoft Excel 2003, which will be processed into the project’s accountability report. An information system to assist the financial unit will record all transactions in the projects, and will display the summary report, accountability report, general journal, general ledger, and profit and loss statements. This system was developed using PHP language and Mysql database. The result of the application development and testing can assist the company to manage their project’s financial data.

Keywords: project, cost, budget
# DAFTAR ISI

PRAKATA .................................................................................................................. i
ABSTRAK .................................................................................................................. iii
ABSTRACT ...................................................................................................................... iv
DAFTAR ISI ................................................................................................................... v
DAFTAR GAMBAR ......................................................................................................... viii
DAFTAR TABEL .............................................................................................................. x

## BAB I PENDAHULUAN

1.1 Latar Belakang Masalah ...................................................................................... 1
1.2 Rumusan Masalah ............................................................................................... 2
1.3 Tujuan Pembahasan ............................................................................................. 3
1.4 Ruang Lingkup Kajian ......................................................................................... 3
1.5 Sumber Data ......................................................................................................... 4
1.6 Sistematika Penyajian ......................................................................................... 4

## BAB II KAJIAN TEORI

2.1 Sistem Informasi ................................................................................................... 6
2.2 Perusahaan Jasa Konstruksi ............................................................................... 9
2.3 Laporan Laba Rugi .............................................................................................. 9
2.4 Jurnal Umum ......................................................................................................... 10
2.5 Buku Besar .......................................................................................................... 11
2.6 Neraca .................................................................................................................. 11
2.7 Teori Analisis Perancangan ............................................................................... 12
   2.7.1 PHP (Hypertext Preprocessor) .................................................................... 12
   2.7.2 MySQL (My Structure Query Language) .................................................... 13
   2.7.3 CSS (Cascading Style Sheet) ...................................................................... 13
   2.7.4 Apache .......................................................................................................... 14
2.8 Alat Bantu Sistem .............................................................................................. 14
   2.8.1 ERD (Entity Relationship Diagram) .......................................................... 15
   2.8.2 Kamus Data ................................................................................................. 18
<table>
<thead>
<tr>
<th>2.8.3</th>
<th>Flowmap</th>
<th>18</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.8.4</td>
<td>DFD (Data Flow Diagram)</td>
<td>21</td>
</tr>
</tbody>
</table>

BAB III ANALISIS DAN RANCANGAN SISTEM | 22 |

3.1 Profil PT. Felixindo Jaya Perkasa | 22 |
3.1.1 Visi Perusahaan | 22 |
3.1.2 Misi Perusahaan | 22 |

3.2 Proses Bisnis | 23 |

3.3 Perancangan Database | 30 |
3.3.1 ERD (Entity Relationship Diagram) | 30 |
3.3.2 Struktur Tabel | 32 |

3.4 Perancangan Sistem | 37 |
3.4.1 Diagram Konteks | 37 |
3.4.2 Data Flow Diagram (DFD) Level 1 | 38 |
3.4.3 Data Flow Diagram Level 1 Proses 1 | 40 |
3.4.4 Data Flow Diagram Level 1 Proses 2 | 41 |
3.4.5 Data Flow Diagram Level 1 Proses 3 | 43 |
3.4.6 Data Flow Diagram Level 1 Proses 4 | 45 |
3.4.7 Data Flow Diagram Level 1 Proses 5 | 46 |
3.4.8 Data Flow Diagram Level 1 Proses 6 | 47 |

3.5 Kamus Data | 48 |

3.6 Spesifikasi Proses | 58 |

3.7 Rancangan Antarmuka | 89 |

BAB IV HASIL PENELITIAN | 93 |

4.1 Halaman Login | 93 |
4.2 Halaman Utama | 94 |
4.2.1 Halaman Tambah Proyek Baru | 94 |
4.2.2 Halaman Buat Tim Proyek | 95 |
4.2.3 Halaman Form Penagihan Proyek | 96 |
4.2.4 Halaman Anggaran Biaya Proyek | 96 |
<table>
<thead>
<tr>
<th>No.</th>
<th>Tabel</th>
<th>Judul Tabel</th>
<th>Halaman</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Tabel Simbol Entity Relationship Diagram</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>II</td>
<td>Tabel Simbol-simbol Flowmap</td>
<td>17</td>
<td></td>
</tr>
<tr>
<td>III</td>
<td>Tabel Simbol-Simbol Data Flow Diagram</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>IV</td>
<td>Tabel Struktur Data</td>
<td>31</td>
<td></td>
</tr>
<tr>
<td>V</td>
<td>Kamus Data Tabel Proyek</td>
<td>48</td>
<td></td>
</tr>
<tr>
<td>VI</td>
<td>Kamus Data Tabel Pemilik Proyek</td>
<td>49</td>
<td></td>
</tr>
<tr>
<td>VII</td>
<td>Kamus Data Tabel Tim Proyek</td>
<td>49</td>
<td></td>
</tr>
<tr>
<td>VIII</td>
<td>Kamus Data Tabel Karyawan</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>IX</td>
<td>Kamus Data Tabel Daftar Akun</td>
<td>51</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td>Kamus Data Tabel Jurnal</td>
<td>51</td>
<td></td>
</tr>
<tr>
<td>XI</td>
<td>Kamus Data Tabel Blok Anggaran Biaya</td>
<td>52</td>
<td></td>
</tr>
<tr>
<td>XII</td>
<td>Kamus Data Tabel RAB Material</td>
<td>52</td>
<td></td>
</tr>
<tr>
<td>XIII</td>
<td>Kamus Data Tabel Jenis Overhead</td>
<td>53</td>
<td></td>
</tr>
<tr>
<td>XIV</td>
<td>Kamus Data Tabel RAB Overhead</td>
<td>54</td>
<td></td>
</tr>
<tr>
<td>XV</td>
<td>Kamus Data Tabel Termin Pertanggungjawaban Biaya</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>XVI</td>
<td>Kamus Data Tabel Pertanggung Material</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>XVII</td>
<td>Kamus Data Tabel Pertanggung Overhead</td>
<td>56</td>
<td></td>
</tr>
<tr>
<td>XVIII</td>
<td>Kamus Data Tabel Tagihan</td>
<td>57</td>
<td></td>
</tr>
<tr>
<td>XIX</td>
<td>Kamus Data Tabel Login</td>
<td>58</td>
<td></td>
</tr>
<tr>
<td>XX</td>
<td>Tambah Proyek Baru</td>
<td>58</td>
<td></td>
</tr>
<tr>
<td>XXI</td>
<td>Edit Proyek</td>
<td>59</td>
<td></td>
</tr>
<tr>
<td>XXII</td>
<td>Hapus Proyek</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>XXIII</td>
<td>Cetak Faktur Tagihan Proyek</td>
<td>61</td>
<td></td>
</tr>
<tr>
<td>XXIV</td>
<td>Input Anggaran Biaya Material</td>
<td>61</td>
<td></td>
</tr>
<tr>
<td>XXV</td>
<td>Tampil Anggaran Biaya Material</td>
<td>63</td>
<td></td>
</tr>
</tbody>
</table>
Tabel XXVI  Edit Anggaran Biaya Material ................................. 63
Tabel XXVII Hapus Anggaran Biaya Material .............................. 64
Tabel XXVIII Input Anggaran Biaya Overhead .............................. 65
Tabel XXIX  Tampil Anggaran Biaya Overhead ............................ 66
Tabel XXX  Edit Anggaran Biaya Overhead ................................. 67
Tabel XXXI Hapus Anggaran Biaya Overhead ............................... 68
Tabel XXXII Input/Pilih Termin ............................................... 69
Tabel XXXIII Input Pertanggungjawaban Biaya Material.................. 69
Tabel XXXIV Tampil Pertanggungjawaban Biaya Material ............... 71
Tabel XXXV  Edit Pertanggungjawaban Biaya Material.................... 72
Tabel XXXVI Hapus Pertanggungjawaban Biaya Material............... 73
Tabel XXXVII Input Biaya Pertanggungjawaban Biaya Overhead ...... 74
Tabel XXXVIII Tampil Pertanggungjawaban Biaya Overhead .......... 75
Tabel XXXIX  Edit Pertanggungjawaban Biaya Overhead............... 76
Tabel XL Hapus Pertanggungjawaban Biaya Overhead .................. 77
Tabel XLI Input Data Tagihan Proyek ....................................... 78
Tabel XLII Tampil Tagihan .................................................. 79
Tabel XLIII  Edit Tagihan Proyek ........................................... 80
Tabel XLIV Hapus Tagihan ................................................... 80
Tabel XLV Cetak Kartu Piutang ............................................... 81
Tabel XLVI Tampil Diagram Proyek ......................................... 82
Tabel XLVII  Tampil Perbandingan Anggaran dan Pertanggungjawaban Biaya Proyek .................................................. 82
Tabel XLVIII Tampil Jurnal Umum .......................................... 83
Tabel XLIX Cetak Jurnal Umum ............................................. 84
Tabel L  Tampil Buku Besar .................................................. 84
Tabel LI Cetak Buku Besar ................................................... 85
Tabel LII Tampil Laporan Laba/Rugi ......................................... 86
<table>
<thead>
<tr>
<th>Tabel</th>
<th>Judul</th>
<th>Halaman</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIII</td>
<td>Tampil Laporan Rekapitulasi</td>
<td>86</td>
</tr>
<tr>
<td>LIV</td>
<td>Cetak Laporan Rekapitulasi</td>
<td>87</td>
</tr>
<tr>
<td>LV</td>
<td>Tampil Laporan Pertanggungjawaban Proyek</td>
<td>88</td>
</tr>
<tr>
<td>LVI</td>
<td>Cetak Laporan Pertanggungjawaban Proyek</td>
<td>89</td>
</tr>
<tr>
<td>LVII</td>
<td>Pengujian Form Login</td>
<td>117</td>
</tr>
<tr>
<td>LVIII</td>
<td>Pengujian Form Tambah Proyek</td>
<td>118</td>
</tr>
<tr>
<td>LIX</td>
<td>Pengujian Form Tambah Blok Anggaran Biaya Material</td>
<td>120</td>
</tr>
<tr>
<td>LX</td>
<td>Pengujian Form Tambah Anggaran Biaya Material</td>
<td>121</td>
</tr>
<tr>
<td>LXI</td>
<td>Pengujian Form Tambah Anggaran Biaya Overhead</td>
<td>122</td>
</tr>
<tr>
<td>LXII</td>
<td>Pengujian Form Tambah Termin Pertanggungjawaban</td>
<td>123</td>
</tr>
<tr>
<td>LXIII</td>
<td>Pengujian Form Tambah Pertanggungjawaban Biaya Material</td>
<td>124</td>
</tr>
<tr>
<td>LXIV</td>
<td>Pengujian Form Tambah Pertanggungjawaban Biaya Overhead</td>
<td>125</td>
</tr>
<tr>
<td>LXV</td>
<td>Pengujian Form Tambah Tagihan Proyek</td>
<td>126</td>
</tr>
<tr>
<td>LXVI</td>
<td>Pengujian Form Ganti Password</td>
<td>128</td>
</tr>
</tbody>
</table>
DAFTAR GAMBAR

Gambar 1 Diagram Aliran Proses Pembuatan Proyek Baru Oleh Admin ........ 1
Gambar 2 Diagram Aliran Proses Penginputan Data Tagihan Oleh Admin...... 3
Gambar 3 Diagram Aliran Proses Penginputan Rencana Anggaran Biaya Proyek Oleh Admin................................................................. 4
Gambar 4 Diagram Aliran Proses Penginputan Biaya Pertanggungjawaban Proyek Oleh Admin................................................................. 5
Gambar 5 Diagram Proses Aliran Pelaporan Proyek Oleh Admin............... 7
Gambar 6 ERD Sistem Pelaporan Proyek............................................. 8
Gambar 7 Diagram Konteks.................................................................. 14
Gambar 8 Data Flow Diagram Level 1 .................................................. 15
Gambar 9 Data Flow Diagram Level 1 Proses 1 .................................... 17
Gambar 10 Data Flow Diagram Level 1 Proses 2................................... 18
Gambar 11 Data Flow Diagram Level 1 Proses 3.................................... 20
Gambar 12 Data Flow Diagram Level 1 Proses 4................................. 22
Gambar 13 Data Flow Diagram Level 1 Proses 5................................. 23
Gambar 14 Data Flow Diagram Level 1 Proses 6................................. 24
Gambar 15 Perancangan Halaman Login ........................................... 66
Gambar 16 Perancangan Halaman Utama .......................................... 67
Gambar 17 Perancangan Halaman Anggaran Biaya.............................. 68
Gambar 18 Perancangan Form Tambah Proyek Baru............................ 69
Gambar 19 Perancangan Form Tambah Pertanggungjawaban Biaya Material 69
Gambar 20 Halaman Login.................................................................. 70
Gambar 21 Halaman Utama Sistem..................................................... 71
Gambar 22 Halaman Tambah Proyek Baru .......................................... 72
Gambar 23 Halaman Form Buat Tim Proyek ....................................... 72
Gambar 24 Tampilan Faktur Penagihan Proyek.................................... 73
Gambar 25  Tampilan Anggaran Biaya Proyek .......................................................... 74
Gambar 26  Halaman Detail Anggaran Biaya dan Persentase Biaya ............................ 74
Gambar 27  Halaman Detail RAB Proyek ................................................................. 75
Gambar 28  Halaman Blok Proyek ........................................................................... 76
Gambar 29  Halaman Detail Biaya Material ............................................................... 77
Gambar 30  Halaman Detail Biaya Overhead .............................................................. 78
Gambar 31  Halaman Pertanggungjawaban Biaya Proyek ......................................... 78
Gambar 32  Halaman Detail Pertanggungjawaban dan Persentasi Biaya ................. 79
Gambar 33  Halaman Tampil Termin Biaya Pertanggungjawaban ....................... 79
Gambar 34  Halaman Detail Biaya Pertanggungjawaban ........................................ 80
Gambar 35  Halaman Detail Pertanggungjawaban Biaya Material ....................... 81
Gambar 36  Halaman Detail Pertanggungjawaban Biaya Overhead .................... 82
Gambar 37  Halaman Tambah Pertanggungjawaban Biaya Material .................... 82
Gambar 38  Halaman Tagihan Proyek .................................................................. 83
Gambar 39  Halaman Detail Tagihan Proyek .......................................................... 83
Gambar 40  Halaman Daftar Tagihan Proyek .......................................................... 84
Gambar 41  Halaman Tampil Grafik Proyek ............................................................. 85
Gambar 42  Halaman Tampil Grafik Perbandingan Anggaran dan Pertanggungjawaban Biaya .................................................................................................................. 86
Gambar 43  Halaman Jurnal Umum Proyek ............................................................. 87
Gambar 44  Halaman Cetak Jurnal Umum ............................................................... 87
Gambar 45  Halaman Buku Besar Proyek ................................................................. 88
Gambar 46  Halaman Cetak Buku Besar ................................................................. 89
Gambar 47  Halaman Laporan Laba/Rugi Multiple Proyek ...................................... 90
Gambar 48  Halaman Laporan Rekapitulasi Proyek ............................................... 91
Gambar 49  Halaman Cetak Laporan Rekapitulasi Proyek ...................................... 92
Gambar 50  Halaman Laporan Pertanggungjawaban Proyek ................................... 93