

## DAFTAR ISI

|                                                  |      |
|--------------------------------------------------|------|
| ABSTRAK .....                                    | i    |
| HALAMAN PERNYATAAN ORISINALITAS.....             | iv   |
| KATA PENGANTAR .....                             | v    |
| DAFTAR GAMBAR .....                              | x    |
| DAFTAR TABEL.....                                | xi   |
| DAFTAR RUMUS .....                               | xiii |
| DAFTAR LAMPIRAN.....                             | xiv  |
| DAFTAR ISTILAH .....                             | xv   |
| BAB I PENDAHULUAN .....                          | 1    |
| I.1 Latar Belakang.....                          | 1    |
| I.2 Alternatif Solusi.....                       | 6    |
| I.3 Rumusan Masalah.....                         | 7    |
| I.4 Tujuan Tugas Akhir .....                     | 8    |
| I.5 Manfaat Tugas Akhir .....                    | 8    |
| I.6 Sistematika Penulisan .....                  | 8    |
| BAB II LANDASAN TEORI .....                      | 10   |
| II.1 Teori/ Konsep Umum/Kerangka Kerja .....     | 10   |
| II.1.1 Proyek.....                               | 10   |
| II.1.2 Manajemen Proyek.....                     | 11   |
| II.1.3 Project Management Process Groups .....   | 12   |
| II.1.4 Project Management Knowledge Areas .....  | 13   |
| II.1.5 Work Breakdown Structure .....            | 14   |
| II.1.6 Work Breakdown Structure Dictionary ..... | 15   |

|                                                             |    |
|-------------------------------------------------------------|----|
| II.1.7 Communication Methods .....                          | 15 |
| II.1.8 Project Management Information System .....          | 16 |
| II.2 Teori Metode Analisis .....                            | 17 |
| II.2.1 Earn Value Management .....                          | 17 |
| II.2.2 Analisis Variansi .....                              | 18 |
| II.2.3 Analisis Indeks Performansi.....                     | 19 |
| II.2.4 Analisis Estimasi Penyelesaian Proyek .....          | 20 |
| II.3 Penelitian Terdahulu.....                              | 22 |
| II.4 Alasan Pemilihan Metode dan Teori Penelitian .....     | 24 |
| BAB III METODOLOGI PENELITIAN.....                          | 26 |
| III.1 Sistematika Penelitian .....                          | 26 |
| III.1.1 Tahap Pendahuluan .....                             | 27 |
| III.1.2 Tahap Pengumpulan Data .....                        | 28 |
| III.1.3 Tahap Pengolahan Data.....                          | 28 |
| III.1.4 Tahap Analisis Data .....                           | 30 |
| III.1.5 Tahap Verifikasi dan Validasi.....                  | 31 |
| III.1.6 Tahap Kesimpulan dan Saran.....                     | 31 |
| III.2 Identifikasi Sistem Terintegrasi .....                | 32 |
| III.3 Batasan Tugas Akhir .....                             | 33 |
| BAB IV PENGUMPULAN DAN PENGOLAHAN DATA .....                | 34 |
| IV.1 Pengumpulan Data .....                                 | 34 |
| IV.1.1 Hasil Wawancara .....                                | 34 |
| IV.1.2 Struktur Organisasi .....                            | 35 |
| IV.1.3 Segmentasi Proyek pada Divisi Konstruksi PT XYZ..... | 36 |
| IV.1.4 <i>Statement of Work</i> (SOW) .....                 | 37 |

|                                                               |    |
|---------------------------------------------------------------|----|
| IV.1.5 Work Breakdown Structure (WBS) .....                   | 39 |
| IV.1.6 Jadwal Proyek .....                                    | 40 |
| IV.1.7 Rancangan Anggaran Biaya (RAB).....                    | 41 |
| IV.1.8 Progres Pekerjaan.....                                 | 42 |
| IV.2 Pengolahan Data .....                                    | 46 |
| IV.2.1 Perhitungan Variansi.....                              | 46 |
| IV.2.2 Perhitungan Indeks Performansi .....                   | 48 |
| IV.2.3 Perhitungan Estimasi Penyelesaian.....                 | 50 |
| BAB V ANALISIS DATA .....                                     | 56 |
| V.1 Verifikasi dan Validasi.....                              | 56 |
| V.1.1 Verifikasi.....                                         | 56 |
| V.1.2 Validasi .....                                          | 57 |
| V.2 Analisis Kurva-S .....                                    | 58 |
| V.3 Analisis Variansi .....                                   | 59 |
| V.3.1 Analisis Schedule Variance (SV).....                    | 59 |
| V.3.2 Analisis Cost Variance (CV).....                        | 65 |
| V.4 Analisis Indeks Performansi.....                          | 71 |
| V.4.1 Analisis Schedule Performance Index (SPI) .....         | 71 |
| V.4.2 Analisis Cost Performance Index (CPI).....              | 77 |
| V.5 Analisis Estimasi Penyelesaian Proyek.....                | 82 |
| V.5.1 Analisis Estimate At Completion (EAC) .....             | 83 |
| V.5.2 Analisis Estimate To Complete (ETC).....                | 83 |
| V.5.3 Analisis Time Estimate (TE).....                        | 83 |
| V.5.4 Analisis To Complete Performance Index (TCPI).....      | 84 |
| V.6 Analisis Usulan Proses Pemantauan Performansi Proyek..... | 84 |

|                                         |    |
|-----------------------------------------|----|
| V.6.1 Manfaat Penggunaan Dashboard..... | 87 |
| BAB VI KESIMPULAN DAN SARAN .....       | 88 |
| VI.1 Kesimpulan .....                   | 88 |
| VI.2 Saran .....                        | 89 |
| DAFTAR PUSTAKA .....                    | 91 |