

## DAFTAR ISI

|                                                                      |       |
|----------------------------------------------------------------------|-------|
| ABSTRAK .....                                                        | i     |
| ABSTRACT .....                                                       | ii    |
| LEMBAR PENGESAHAN .....                                              | iii   |
| LEMBAR PERNYATAAN ORISINALITAS .....                                 | iv    |
| KATA PENGANTAR.....                                                  | v     |
| DAFTAR ISI .....                                                     | vii   |
| DAFTAR GAMBAR .....                                                  | xi    |
| DAFTAR TABEL.....                                                    | xiv   |
| DAFTAR LAMPIRAN .....                                                | xvii  |
| DAFTAR ISTILAH .....                                                 | xviii |
| BAB I    PENDAHULUAN .....                                           | 1     |
| I.1    Latar Belakang.....                                           | 1     |
| I.2    Rumusan Masalah.....                                          | 4     |
| I.3    Tujuan Penelitian .....                                       | 5     |
| I.4    Batasan Penelitian.....                                       | 5     |
| I.5    Manfaat Penelitian .....                                      | 6     |
| I.6    Sistematika Penulisan .....                                   | 6     |
| BAB II    TINJAUAN PUSTAKA.....                                      | 8     |
| II.1 <i>Enterprise Architecture (EA)</i> .....                       | 8     |
| II.2 <i>Enterprise Architecture Benefit Model (EABM)</i> .....       | 8     |
| II.3 <i>Enterprise Architecture Framework (EAF)</i> .....            | 11    |
| II.3.1 <i>Zachman Framework</i> .....                                | 11    |
| II.3.2 <i>Federal Enterprise Architecture Framework (FEAF)</i> ..... | 12    |
| II.3.3 <i>The Open Group Architecture Framework (TOGAF)</i> .....    | 13    |
| II.4 <i>Perbandingan Enterprise Architecture Framework</i> .....     | 13    |
| II.5 <i>The Open Group Architecture Framework (TOGAF)</i> .....      | 16    |
| II.6 <i>Penelitian Terdahulu</i> .....                               | 17    |
| BAB III    METODOLOGI PENELITIAN .....                               | 20    |

|        |                                                       |    |
|--------|-------------------------------------------------------|----|
| III.1  | Model Konseptual.....                                 | 20 |
| III.2  | Sistematika Penyelesaian Masalah .....                | 21 |
| III.3  | Pengumpulan Data.....                                 | 23 |
| III.4  | Pengolahan Data atau Pengembangan Produk/Artefak..... | 25 |
| III.5  | Metode Evaluasi .....                                 | 30 |
| III.6  | Rencana Jadwal Penelitian .....                       | 30 |
| BAB IV | PERSIAPAN DAN IDENTIFIKASI .....                      | 32 |
| IV.1   | Identifikasi Objek Penelitian .....                   | 32 |
| IV.1.1 | Gambaran Perusahaan.....                              | 32 |
| IV.1.2 | Struktur Organisasi .....                             | 33 |
| IV.1.3 | Visi dan Misi .....                                   | 36 |
| IV.1.4 | Core Value.....                                       | 36 |
| IV.1.5 | Rencana Pengembangan Sistem Informasi.....            | 37 |
| IV.2   | Kondisi Aplikasi Eksisting.....                       | 38 |
| IV.3   | Kondisi Permasalahan Eksisting.....                   | 40 |
| BAB V  | ANALISIS DAN PERANCANGAN.....                         | 45 |
| V.1    | Preliminary Phase .....                               | 45 |
| V.1.1  | Principles Catalog .....                              | 45 |
| V.2    | Architecture Vision.....                              | 47 |
| V.2.1  | Stakeholder Map Matrix.....                           | 47 |
| V.2.2  | Value Chain .....                                     | 53 |
| V.2.3  | Solution Concept Diagram .....                        | 54 |
| V.2.4  | Goal Catalog .....                                    | 57 |
| V.2.5  | Requirement Catalog.....                              | 59 |
| V.3    | Business Architecture .....                           | 60 |
| V.3.1  | Goal/Objective/Requirement .....                      | 60 |
| V.3.2  | Business Footprint Diagram .....                      | 62 |
| V.3.3  | Business Interaction Matrix.....                      | 65 |
| V.3.4  | Functional Decomposition Diagram .....                | 68 |
| V.3.5  | Business Service/Functional Catalog .....             | 68 |
| V.3.6  | Organizational/Actor Catalog .....                    | 69 |
| V.3.7  | Actor/Role Matrix .....                               | 70 |
| V.3.8  | Process Flow Diagram.....                             | 73 |

|          |                                                            |     |
|----------|------------------------------------------------------------|-----|
| V.3.9    | GAP Analysis Business Architecture.....                    | 114 |
| V.4      | Information System Architecture .....                      | 115 |
| V.4.1    | Data Architecture .....                                    | 115 |
| V.4.1.1  | Data Architecture Requirement Catalog.....                 | 116 |
| V.4.1.2  | Data Entity/Data Component Catalog .....                   | 116 |
| V.4.1.3  | Data Entity/Business Function Matrix .....                 | 118 |
| V.4.1.4  | Application/Data Matrix.....                               | 121 |
| V.4.1.5  | Conceptual Data Diagram.....                               | 122 |
| V.4.1.6  | Logical Data Diagram .....                                 | 124 |
| V.4.1.7  | Data Dissemination Diagram.....                            | 126 |
| V.4.1.8  | GAP Analysis Data Architecture.....                        | 128 |
| V.4.2    | Application Architecture .....                             | 129 |
| V.4.2.1  | Application Architecture Requirement Catalog .....         | 129 |
| V.4.2.2  | Application Portfolio Catalog .....                        | 130 |
| V.4.2.3  | Application Interface Catalog .....                        | 131 |
| V.4.2.4  | Application/Organization Matrix .....                      | 132 |
| V.4.2.5  | Application/Role Matrix.....                               | 133 |
| V.4.2.6  | Application/Function Matrix .....                          | 135 |
| V.4.2.7  | Application Interaction Matrix.....                        | 137 |
| V.4.2.8  | Application Communication Diagram.....                     | 138 |
| V.4.2.9  | Application Use Case Diagram.....                          | 140 |
| V.4.2.10 | GAP Analysis Application Architecture .....                | 148 |
| V.5      | Technology Architecture.....                               | 149 |
| V.5.1    | Technology Architecture Requirement Catalog.....           | 150 |
| V.5.2    | Technology Standards Catalog .....                         | 150 |
| V.5.3    | Technology Portfolio Catalog.....                          | 152 |
| V.5.4    | Application/Technology Matrix.....                         | 156 |
| V.5.5    | Environments and Location Diagram.....                     | 157 |
| V.5.6    | GAP Analysis Technology Architecture .....                 | 159 |
| V.6      | Opportunities and Solutions .....                          | 160 |
| V.6.1    | Implementation Factor Assessment and Deduction Matrix..... | 160 |
| V.6.2    | Consolidate Gap, Solution, Dependencies Matrix .....       | 163 |
| V.6.3    | Work Package Identification Catalog.....                   | 172 |

|                |                                |     |
|----------------|--------------------------------|-----|
| V.6.4          | Project Context Diagram .....  | 175 |
| V.6.5          | Benefit Diagram.....           | 175 |
| V.7            | Migration Planning .....       | 177 |
| V.7.1          | Invesment Valuation .....      | 177 |
| V.7.2          | Estimate Value and Risk .....  | 184 |
| V.7.3          | Business Value Assessment..... | 186 |
| V.7.4          | Project Prioritization .....   | 186 |
| V.7.5          | IT Roadmap .....               | 188 |
| V.8            | Evaluasi.....                  | 190 |
| BAB VI         | KESIMPULAN DAN SARAN .....     | 194 |
| VI.1           | Kesimpulan.....                | 194 |
| VI.2           | Saran .....                    | 195 |
| DAFTAR PUSTAKA | .....                          | 196 |
| LAMPIRAN       | .....                          | 200 |