

DAFTAR ISI

| | |
|--|------|
| HALAMAN PERNYATAAN KEASLIAN SKRIPSI..... | ii |
| HALAMAN PENGESAHAN | iii |
| KATA PENGANTAR..... | iv |
| HALAMAN PERNYATAAN PERSETUJUAN PUBLIKASI SKRIPSI | v |
| ABSTRAK | vi |
| ABSTRACT | vii |
| DAFTAR ISI | viii |
| DAFTAR TABEL | xi |
| DAFTAR GAMBAR..... | xii |
| BAB I PENDAHULUAN | 1 |
| 1.1 Latar Belakang | 1 |
| 1.2 Rumusan Masalah..... | 3 |
| 1.3 Tujuan | 3 |
| 1.4 Manfaat | 3 |
| 1.5 Ruang Lingkup | 4 |
| 1.6 Sistematika Penulisan | 4 |
| BAB II TINJAUAN PUSTAKA | 6 |
| 2.1 Studi Literatur | 6 |
| 2.2 <i>ICONIX Process</i> | 8 |
| 2.3 <i>User Interface (UI)</i> | 10 |
| 2.4 <i>Unified Modeling Language (UML)</i> | 11 |
| 2.4.1. <i>Use Case Diagram</i> | 11 |
| 2.4.2. <i>Robustness Diagram</i> | 12 |
| 2.4.3. <i>Sequence Diagram</i> | 13 |
| 2.4.4. <i>Class Diagram</i> | 14 |
| 2.5 Teknologi Perangkat Lunak..... | 15 |
| 2.5.1. JavaScript | 17 |
| 2.5.2. Tailwind CSS | 17 |
| 2.5.3. REST API..... | 18 |
| 2.5.4. MySQL..... | 18 |
| 2.5.5. Aplikasi PhpMyAdmin | 19 |

| | |
|--|------------|
| 2.6 Pengujian Perangkat Lunak | 19 |
| BAB III METODOLOGI PENELITIAN | 22 |
| 3.1 Metode Pembuatan Aplikasi | 22 |
| 3.1.1 Fase <i>Requirements</i> | 23 |
| 3.1.2 Fase <i>Analysis/ Preliminary Design</i> | 24 |
| 3.1.3 Fase <i>Detailed Design</i> | 24 |
| 3.1.4 Fase <i>Implementation</i> | 25 |
| BAB IV HASIL DAN PEMBAHASAN..... | 27 |
| 4.1 Fase <i>Requirements</i> | 27 |
| 4.1.1 Hasil Wawancara..... | 27 |
| 4.1.2 Hasil Analisis Proses Bisnis..... | 27 |
| 4.1.3 Identifikasi Kebutuhan Fungsional | 30 |
| 4.1.4 Domain Modelling | 31 |
| 4.1.5 Analisis <i>Behavioral Requirements</i> | 32 |
| 4.1.6 <i>Requirements Review</i> | 56 |
| 4.2 Fase <i>Analysis/Preliminary Design</i> | 57 |
| 4.2.1 <i>Robustness Diagram</i> | 57 |
| 4.2.2 <i>Updated Domain Model</i> | 70 |
| 4.2.3 <i>Preliminary Design Review (PDR)</i> | 70 |
| 4.3 Fase <i>Detailed Design</i> | 71 |
| 4.3.1 <i>Sequence Diagram</i> | 71 |
| 4.3.2 <i>Class Diagram</i> | 89 |
| 4.3.3 <i>Critical Design Review (CDR)</i> | 91 |
| 4.4 Fase <i>Implementation</i> | 91 |
| 4.4.1 Lingkungan Implementasi..... | 91 |
| 4.4.2 Impelementasi Kelas | 92 |
| 4.4.3 Impelementasi Basis Data | 93 |
| 4.4.4 Impelementasi Antarmuka | 98 |
| 4.5 Pengujian | 111 |
| 4.5.1 Rencana Pengujian | 111 |
| 4.5.2 Hasil Pengujian | 112 |
| BAB V KESIMPULAN DAN SARAN | 113 |
| 5.1 Kesimpulan | 113 |

| | |
|---|-----|
| 5.2 Saran | 113 |
| DAFTAR PUSTAKA..... | 114 |
| LAMPIRAN 1. Surat Keterangan Pengambilan Data..... | 117 |
| LAMPIRAN 2. Hasil Wawancara..... | 118 |
| LAMPIRAN 3. Rencana Pengujian <i>Black Box</i> | 121 |
| LAMPIRAN 4. Hasil Pengujian Aplikasi Reservasi Kamar Kos Giraldi Berbasis <i>Web</i> .. | 123 |