**DAFTAR ISI**

|  |  |  |
| --- | --- | --- |
| HALAMAN JUDUL | ………………………………………………………………….……… | i |
| HALAMAN PERSETUJUAN | ……………………………………………………….….… | ii |
| HALAMAN PENGESAHAN | …………………………………………………….…….… | iii |
| HALAMAN MOTTO | ………………………………………………………………….……… | iv |
| HALAMAN PERSEMBAHAN | ………………………………………………….…….… | v |
| KATA PENGANTAR | …………………………………………………………….………… | vi |
| INTISARI | ……………………………………………………………………………………… | viii |
| DAFTAR GAMBAR | …………………………………………………………….…………… | xii |
| BAB I PENDAHULUAN | …………………………………………………….…………… | 1 |
| 1.1 Latar Belakang Masalah | …………………………………….………………… | 1 |
| 1.2 Rumusan Masalah | …………………………………………….………………… | 2 |
| 1.3 Ruang Lingkup | ……………………………………………………………………… | 2 |
| 1.4 Tujuan | ……………………………………………………………………….…………… | 2 |
| BAB II TINJAUAN PUSTAKA DAN TEORI | …………………….……………… | 3 |
| 2.1 Tinjauan Pustaka | …………………………………………………………………… | 3 |
| 2.2 Dasar Teori | ……………………………………………………….…………………… | 4 |
| 2.2.1 Virus Komputer | ………………………………………………………………… | 4 |
| 2.2.1.1 Virus  | ……………………………………………………………………………… | 5 |
| 2.2.1.2 Worm  | ……………………………………………………………………………… | 5 |
| 2.2.1.3 Trojan Horse | …………………………………………………………………. | 6 |
| 2.2.2 Cara penyebaran Virus | ……………………………………………………… | 6 |
| 2.2.3 Metode Pendeteksian CRC32 | ………………………………………… | 6 |
| BAB III ANALISIS DAN PERANCANGAN SISTEM | …………………………. | 8 |
| 3.1 Analisis Sistem | ……………………………………………………………………… | 8 |
| 3.1.1 Perangkat pendukung | ………………………………………………………. | 9 |
| 3.1.1.1 Perangkat Keras  | …………………………………………………………….. | 9 |
| 3.1.1.2 Perangkat Lunak  | …………………………………………………………… | 9 |
| 3.2 Perancangan Sistem | ………………………………………………………… | 10 |
| 3.2.1 Diagram alir proses scan program secara umum | …………… | 10 |
| 3.2.2 Diagram Alir Proses Hitung CRC | ……………………………………… | 11 |
| 3.2.2.1 Membuat table lookup atau table acuan crc32 | ……………. | 12 |
| 3.2.2.2 Flowchart untuk menghitung nilai crc32  | ………………………. | 14 |
| 3.3 Rancangan Desain Form Tampilan | ……………………………………… | 14 |
| 3.3.1 Desain Form Utama | ………………………………………………………… | 15 |
| * + 1. Hitung CRC
 | ……………………………………………………………………… | 15 |
| * + 1. Signature
 | …………………………………………………………………………. | 16 |
| * + 1. About
 | ………………………………………………………………………………… | 16 |
| BAB IV IMPLEMENTASI DAN PEMBAHASAN SISTEM | ………………… | 17 |
| 4.1 Implementasi Sistem | …………………………………………………………… | 17 |
| 4.2 Pembahasan Sistem  | …………………………………………………………….. | 17 |
| 4.3 Form Menu Utama  | …………………………………………………………….... | 17 |
| * + 1. Tombol Scan
 | …………………………………………………………………… | 18 |
| * + 1. Tombol Hapus
 | …………………………………………………………………. | 18 |
| * + 1. Tombol Karantina
 | …………………………………………………………….. | 19 |
| * + 1. Tombol Hitung CRC
 | ………………………………………………………… | 20 |
| * + 1. Tombol Keluar
 | …………………………………………………………………. | 21 |
| * + 1. ListView1
 | …………………………………………………………………………. | 21 |
| * + 1. lblFileDiperiksa
 | …………………………………………………………………. | 21 |
| * + 1. lblTotalFile
 | ……………………………………………………………………….. | 22 |
| * + 1. lblJumlahvirus
 | ……….……………………………………………………….. | 22 |
| * + 1. lblStatus
 | ……………………………………………………………………………. | 22 |
| * + 1. lblPercentComplete
 | ………………………………………………………. | 23 |
| * + 1. ProgressBar
 | ……………………………………………………………………. | 23 |
| * + 1. Timer
 | ……………………………………………………………………………….. | 24 |
| * 1. Tampilan Form Utama
 | ………………………………………………………. | 25 |
| * 1. Proses Uji Coba Scaning
 | ……………………………………………………. | 25 |
| * + 1. PENCARIAN
 | …………………………………………………………………………. | 27 |
| * + 1. CEK\_DENGAN\_CRC
 | …………………………………………………………… | 30 |
| 1. Perhitungan Tabel Lookup
 | ………………………………………………………. | 30 |
| b. Menghitung CRC32 | …………………………………………………………………. | 32 |
| * + 1. CEK\_SIGNATURE
 | ………………………………………………………………. | 34 |
| * + 1. Memasukan nama dan lokasi virus ke ListView
 | ……………. | 35 |
| * + 1. TINDAKAN
 | ……………………………………………………………………….. | 36 |
| BAB V KESIMPULAN DAN SARAN | ……………………………………………… | 38 |
| 5.1 Kesimpulan | ……………………………………………………………………………. | 38 |
| 5.2 Saran | ……………………………………………………………………………………. | 38 |
| DAFTAR PUSTAKA | ………………………………………………………………………… | 39 |

**DAFTAR GAMBAR**

|  |  |  |
| --- | --- | --- |
| Gambar 3.1 Diagram alir proses scan Program secara umum | …. | 10 |
| Gambar 3.2Proses membuat table acuan crc32 | …………………………. | 12 |
| Gambar 3.4 Desain Form Utama | ………………………….……………………………. | 15 |
| Gambar 3.6 Desain Tampilan Sub Menu Hitung CRC | …………………… | 15 |
| Gambar 3.7 Desain Tampilan Sub Menu View Signature | …………… | 16 |
| Gambar 3.8 Desain Tampilan About | ……………………………………………….. | 16 |
| Gambar 4.1 Tampilan Form Utama | ……………………………………………….. | 25 |
| Gambar 4.3 Bentukan File Virus Khatarnak  | ………………………………….. | 26 |
| Gambar 4.10 File bentukan virus lapido | ……………………………………………. | 26 |