# TESTING APLIKASI DESKTOP BERBASIS DATABASE

## Identitas Pengujian

|  |  |  |
| --- | --- | --- |
| Nama Aplikasi | : |  |
| Platform | : | Desktop .NET |
| Database | : | SQL Server / MySQL / lainnya |
| Nama Penguji: | : | 1. … 2. … 3. … 4. … |
| Tanggal Pengujian | : |  |

### Pengujian Koneksi Database

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No** | **Langkah Uji** | **Input / Aksi** | **Hasil yang Diharapkan** | **Hasil Aktual** | **Status (Pass/Fail)** | **Catatan** |
| 1 | Aplikasi dibuka tanpa koneksi internet | Jalankan aplikasi | Muncul notifikasi kegagalan koneksi |  |  |  |
| 2 | Cek koneksi ke database aktif | Klik tombol "Tes Koneksi" | Status: “Tersambung” |  |  |  |

1. Pengujian CRUD untuk masing-masing form (Create, Read, Update, Delete)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No | Operasi | Input / Aksi | Hasil yang Diharapkan | Hasil Aktual | Status | Catatan |
| 1 | Create |  |  |  |  |  |
| 2 | Read |  |  |  |  |  |
| 3 | Update |  |  |  |  |  |
| 4 | Delete |  |  |  |  |  |

1. Pengujian Validasi & Constraint untuk masing-masing form

| **No** | **Kasus Uji** | **Input / Aksi** | **Validasi Diharapkan** | **Hasil Aktual** | **Status** | **Catatan** |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | Field wajib kosong | Simpan tanpa isi | Tampil error “….” |  |  |  |
| 2 | Duplikasi primary key | Tambah data dengan ID sama | Ditolak sistem / error |  |  |  |
| 3 | Pelanggaran FK | Tambah data dengan FK tidak valid | Ditolak sistem / error | ... | ... | ... |

1. Pengujian Transaksi & Konsistensi Data

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No** | **Skenario** | **Deskripsi** | **Hasil yang Diharapkan** | **Hasil Aktual** | **Status** | **Catatan** |
| 1 | Transaksi Gagal | Simpan data dan tiba-tiba matikan koneksi | Tidak ada data yang tersimpan sebagian |  |  |  |
| 2 | Multi-step transaction | Simpan ke dua tabel (header-detail) | Keduanya berhasil atau rollback |  |  |  |

1. Pengujian Fitur Audit / Logging (jika ada)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No** | **Aksi Pengguna** | **Log Diharapkan** | **Lokasi Log** | **Hasil Aktual** | **Status** | **Catatan** |
| 1 | Login | Log aktivitas login tercatat | Table AuditLog / File |  |  |  |
| 2 | Update data | Catatan perubahan disimpan (CDC atau trigger) |  |  |  |  |

1. Uji Performa Akses Database (Opsional)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No** | **Kasus** | **Jumlah Data** | **Waktu Respons Diharapkan** | **Waktu Aktual** | **Status** | **Catatan** |
| 1 | Load data | 1000 baris | < 3 detik |  |  |  |
| 2 | Simpan transaksi | 10 baris detail | < 2 detik |  |  |  |