# DATA FLOW DIAGRAM

**📊 Level 0 DFD – Lease Management System (Context Level)**

This shows the system as a single process and its interactions with external entities.

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| Property |

| Manager |

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+--------------->| Lease Management |<----------------+

| | System | |

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| Tenant| | Lease | | Payment| | Admin / |

| | | Records | | Status | | Legal |

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📊 Level 1 DFD **– Lease Management System**

This breaks the system into subprocesses, highlighting major functionalities.

🔁 Process 1**: Lease Registration**

* **Input**: Lease info from Property Manager
* **Output**: Stored Lease Record
* **Data Store**: Lease Database

**🧾** Process 2**: Rent Payment Management**

* **Input**: Payment by Tenant
* **Output**: Receipt, Payment Status Update
* **Data Store**: Payment Records

**📅** Process 3**: Notifications & Reminders**

* **Input**: Lease & Rent Data
* **Output**: Automated Alerts (to Tenants/Managers)

**🧑‍⚖️** Process 4**: Legal Compliance Monitoring**

* **Input**: Lease terms & Expiry Dates
* **Output**: Compliance Report/Alerts
* **Data Store**: Compliance Records

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| Property |

| Manager |

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| 1. Lease Registration|

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| Lease Record Store |

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| Tenant |

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| 2. Rent Payment |

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| Payment Record |

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| 3. Notifications Engine |

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| Tenant / Manager |

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| 4. Legal Compliance |

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| Compliance Records |

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## 🗃️ Key Data Stores

* **Lease Records**: Stores all active, expired, and upcoming lease details.
* **Payment Records**: Tracks rent payments, dues, and receipts.
* **Compliance Records**: Maintains deadlines, documents, and legal tasks.