**DATA FLOW DIAGRAM (DFD) Of** ***INVEST KARO***

Level 0 -DFD

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| User |

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| Stock Market | <-----> | users.json |

| Tkinter App | | registrations.json |

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* User interacts with the GUI (register, buy/sell, view records).
* App stores/retrieves user accounts in users.json.
* App stores/retrieves registration records in registrations.json.

Data Flow Diagram (Level 1 )

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| User |

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| Registration |

| (entry\_name, email, |

| password → JSON) |

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| save\_users() ^

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| users.json (DB\_FILE) | | registrations.json (REG\_FILE)

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| save\_registration()

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| Login / Buy-Sell |

| (load\_users(), |

| update balance, |

| shares portfolio) |

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| Shares Windows (Auto/Petro/Steel) |

| - show\_auto\_shares\_window() |

| - show\_petroleum\_shares\_window() |

| - show\_steel\_shares\_window() |

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| Admin Login |

| (check\_admin\_pw, |

| show\_all\_registrations) |

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**Explanation of Flow**

1. **Registration (register\_user)**
   * User enters name, email, password.
   * Data is stored in users.json.
   * Also logged in registrations.json.
2. **Buy/Sell (buy\_sell\_window)**
   * User selects sector → company → quantity.
   * Updates balance and shares in users.json.
3. **Portfolio Windows**
   * Reads data from users.json and displays current holdings.
4. **Admin Login (check\_admin\_password)**
   * Verifies password.
   * Loads all data from registrations.json.