**Level 0 (Context Diagram)**

At the highest level, the system consists of a single process that represents the Happy Day App.

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| External Entity |

| (User) |

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|

v

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| Happy Day App |

| (Process: 1.0) |

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|

v

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| Data Store: Date |

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**Explanation:**

* **External Entity (User):** The user interacts with the **Happy Day App** by opening the application.
* **Process (Happy Day App):** The system retrieves the **current date** and displays a greeting.
* **Data Store (Date):** Stores and retrieves the **current date** dynamically.

**Level 1 DFD (Decomposition of Process 1.0 - Happy Day App)**

Now, let’s break down the **Happy Day App** process into more detailed steps.

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| External Entity |

| (User) |

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v

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| Process: 1.1 - Fetch Today's Date |

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| Data Store: Date |

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| Process: 1.2 - Display Message |

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**Explanation:**

1. **Process 1.1 (Fetch Today’s Date):**
   * The system retrieves the **current date** using JavaScript’s new Date().toLocaleDateString() function.
   * This ensures the displayed date updates dynamically based on the user’s local settings.
2. **Process 1.2 (Display Message):**
   * The app renders a **welcome message**, a **wish for a great day**, and the **current date**.
   * The user sees a beautifully styled greeting in a centered card layout.

**Data Flow**

* The **User** opens the app and interacts passively by viewing the message.
* The **JavaScript Date Object** retrieves the current date.
* The **React Component** dynamically updates and displays the greeting.

**Additional Notes:**

* This **React-based app** uses useState indirectly by calling the Date object.
* **Tailwind CSS (or any other styling library) can be used for an enhanced UI experience.**
* Future enhancements could include **personalized messages, a random daily quote, or animations**.