**Data Flow Diagram for Agile-Tracking-System**

App Description:

The Agile Track System is a Single Page Application designed to streamline agile project management. Users can log in to view assigned tasks and track progress within scrum teams. Administrators can efficiently manage users, teams, and tasks. This application enhances team collaboration and provides valuable insights into project status.

Level 0(Context Diagram):

**+---------------------+**

**| Agile Tracking |**

**| System |**

**+--------+-----------+**

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**|**

**| Login**

**| Task Data**

**| User Data**

**| Scrum Team Data**

**+------------------+ |**

**| User/Admin |<--------+**

**+------------------+**

Level 1(Decomposition of Process 1.0):

**+-----------------+**

**| User/Admin |**

**+--------+--------+**

**|**

**| Login Credentials**

**v**

**+-------------------+**

**| 1. |**

**| Authenticate |**

**| User |**

**+------------------+**

**^**

**| Authentication**

**| Result**

**v**

**+-----------------------+**

**| Data Store: |**

**| User Credentials|**

**+-----------------------+**

**^ |**

**| User/Admin**

**| Requests**

**+--------+--------+**

**| User/Admin |**

**+--------+--------+**

**|**

**| Task Data**

**| User Data**

**| Scrum Team Data**

**v**

**+---------------+**

**| 2. |**

**| Manage |**

**| Agile Data |**

**+---------------+**

**^**

**| Agile Data**

**v**

**+--------------------+**

**| Data Store: |**

**| Agile Data |**

**| (Tasks, Users, |**

**| Scrum Teams) |**

**+--------------------+**

**^**

**| Agile Data**

**| Requests**

**v**

**+--------------+**

**| 3. |**

**| Generate |**

**| Reports |**

**+--------------+**

**|**

**| Reports**

**v**

**+-----------------+**

**| User/Admin |**

**+--------+--------+**

**Explanation:**

1. Process 1: Authenticate User:

* This process handles user authentication.
* It receives login credentials from the User/Admin.
* It validates the credentials against the User Credentials Data Store.
* It sends an authentication result back to the User/Admin.

1. Process 2: Manage Agile Data:

* This process manages the core data of the system.
* It handles requests from User/Admin to view, add, update, and delete agile data (tasks, users, scrum teams).
* It interacts with the Agile Data Data Store to persist the data.

1. Process 3: Generate Reports:

* This process generates reports based on the agile data.
* It retrieves data from the Agile Data Data Store.
* It provides reports to the User/Admin on task statuses, user assignments, and team performance.

1. Data Store: User Credentials:

* This data store stores user login credentials (e.g., email and password).

1. Data Store: Agile Data:

* This data store stores all the agile-related data, including tasks, users, and scrum teams.

**Key Considerations:**

This DFD represents a logical view of the system. The actual implementation may involve more or different processes.

The DFD focuses on the data flow and processes. It does not show the user interface or the technology used to implement the system.

The "User/Admin" entity is used to simplify the diagram. In a more detailed DFD, you might separate these into "User" and "Admin" entities to show their specific interactions.