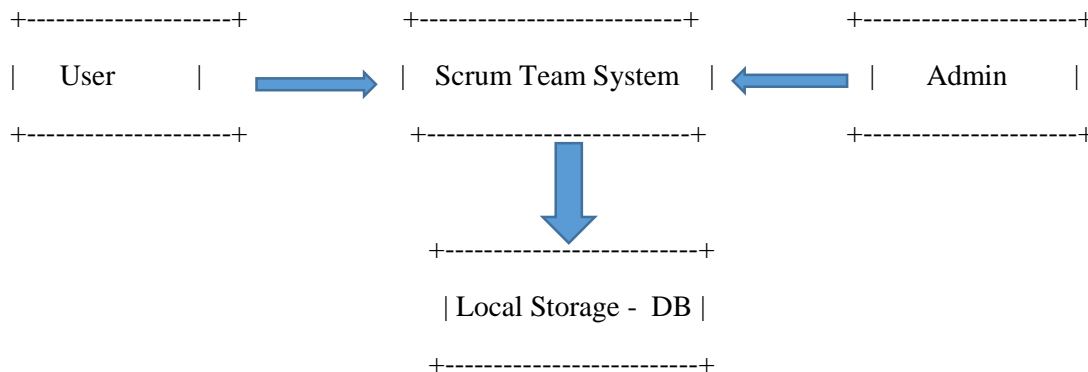


AGILE TRACK SYSTEM

Data flow diagram for the Agile track system, including all interactions between users, admins, scrum teams, tasks, and profiles. The DFD will have multiple levels:

- **Level 0 (Context Diagram):** Shows the overall system and how external entities (Users & Admins) interact with it.
- **Level 1 DFD:** Breaks down the major processes in detail.

Level 0: Context Diagram



- **User/Admin** interacts with the **Scrum Team System**.
- The system manages **Users, Scrum Teams, and Tasks**.
- Data is stored in **Local Storage (acting as a database)**.

Level 1: Context Diagram

Level 1: User Process

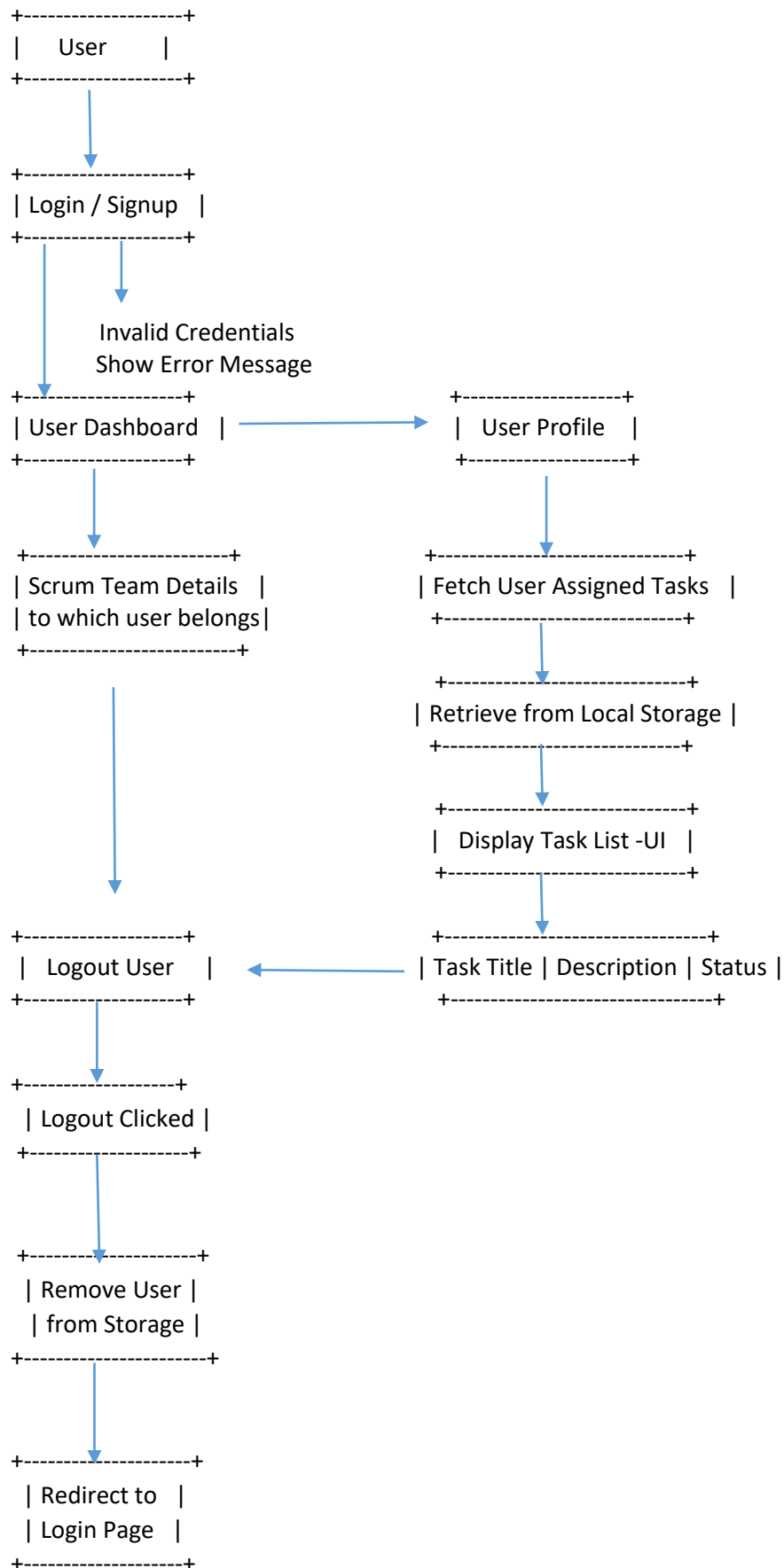
- Users **Login/Signup**.
- After login, they access the **User Dashboard** (Scrum teams they belong to).
- Clicking **Get Details** shows **Scrum Team Details** (tasks, progress, and team members).
- The **User Profile** displays task history.

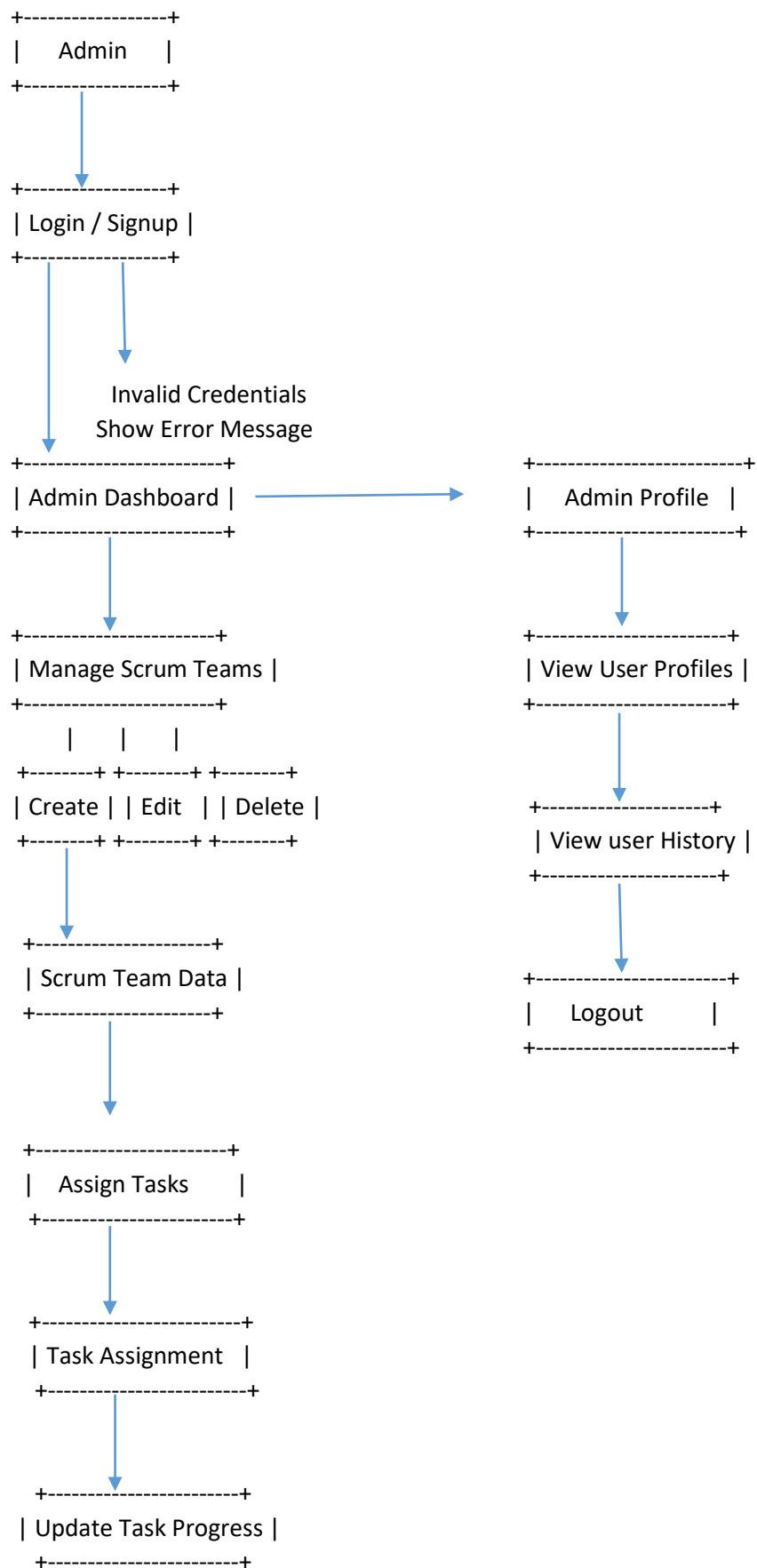
• Level 1: Admin Process

- Admins **Login/Signup**.
- The **Admin Dashboard** shows all scrum teams and available actions.
- Admins can:
 - **Manage Scrum** (Add, Edit, Delete teams).
 - **Assign Tasks** to users.
 - **Manage Users** (View history, Add new users).

• Level 1: Local Storage (DB)

- Stores:
 - **Users Data** (Credentials, roles, task assignments).
 - **Scrum Teams Data** (Teams, members, tasks).
 - **Tasks Data** (Task details and progress).





1. External Entity: Admin

- Logs in / Signs up
- Adds Users
- Manages Scrum Teams
- Assigns & Updates Tasks

2. Processes (Main Functionalities)

- **Authenticate Admin**
 - Input: Email & Password
 - Process: Validate Credentials
 - Output: Redirect to Admin Dashboard / Error Message
- **Add New User**
 - Input: Name, Email, Password, Role Selection (Admin/User)
 - Process: Store in User Database
 - Output: User Created / Error Message
- **Manage Scrum Teams**
 - Input: Admin Actions (Create, Edit, Delete Teams)
 - Process: Update Scrum Team Data
 - Output: Updated Team List / Error Message
- **Assign Tasks to Users**
 - Input: Select User, Assign Task
 - Process: Update Task Data in Local Storage
 - Output: Task Assigned / Error Message
- **Update Task Progress**
 - Input: Change Task Status (To-Do → In Progress → Done)
 - Process: Modify Task Status in Database
 - Output: Updated Task Status / Error Message
- **View User Profiles & Task History**
 - Input: Select User Profile
 - Process: Retrieve User Task History
 - Output: Display Task Details
- **Logout**
 - Input: Logout Action
 - Process: Clear Session, Redirect to Login Page
 - Output: Logout Confirmation.

Conclusion for DFD

The **Data Flow Diagram (DFD)** for **Agile Track System** project effectively represents the flow of information between the **Admin, User, and System** while ensuring data consistency and security.

- **Admin Functionalities:**
 - Manages user accounts.
 - Handles **scrum team creation, task assignment, and progress updates**.
 - Views **user profiles and task history** for better tracking.
- **User Functionalities:**
 - Can log in and view their **assigned tasks and scrum teams**.
 - Has a **dedicated profile page** to track progress.
- **Authentication & Security:**
 - The system ensures **only authenticated users/admins** can access their dashboards.
 - If unauthorized, users are redirected to the **login/signup page**.
- **Data Handling & Error Management:**
 - Data is stored in **local Storage**, ensuring persistence across sessions.
 - If incorrect inputs are provided, proper **error messages** guide users.