CBILITY Technologies Co., Ltd.
Work Assignment

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1. Platform's User Interface

- **Task Details:**
  Implement the user interface of the application using SvelteKit. The UI component is separated into two main parts: Global Components and Pages.

  Global components are designed for reuse across the application.
  They include, but are not limited to:
    - Sidebar
    - Normal Buttons
    - Dropdown Buttons

  Page Components contain the unique layout and features specific to a single page.
  They include, but are not limited to:
    - All Animal Page (Staff)
    - Animal Request Page (Staff)
    - Animal Report Page (Staff)
    - Available Animal Page (Customer)
    - My Adoption Requests Page (Customer)

- **Owners:** Natthanon, Chawin, Phakin

2. Platform's Business Logic

- **Task Details:**
  This receives events (such as user interactions) from the Platform's User Interface, and acts accordingly.

- **Owners:** Natthanon, Chawin, Phakin

3. Database Service

- **Task Details:**
  This is the middleman that provides database-related functionality to other components. It will be implemented in Rust and called in TypeScript (by Platform's Business Logic). Its functionalities include but are not limited to:
    - Insert Animal Entry
    - Edit Animal Entry
    - Remove Animal Entry
    - Insert Adoption Request
    - Query Animals
    - Query Adoption Requests

- **Owners:** Jira

4. File Service

- **Task Details:**
  This is the middleman that provides file-related functionality to other components. It will be implemented in Rust and called in TypeScript (by Platform's Business Logic). Its functionalities include:
    - Upload file
    - Read file
    - Delete file

- **Owners:** Jira

5. Authentication Service

- **Task Details:**
  This accepts credentials (such as usernames and passwords), performs necessary encryptions, and interacts with the "Database Service" components. It will be implemented in Rust and called in TypeScript (by Platform's Business Logic) Its functionalities include:
    - Sign up
    - Log in
    - Log out
    - Check current user

- **Owners:** Jira

6. File Storage

- **Task Details:**
  This is a directory created to store all persistent files such as animal images. It is automatically created and managed by the "File Service" component.

- **Owners:** Jira

7. SQLite Database File

- **Task Details:**
  This is the ".db" file that contains all persistent data in SQLite format. It will be created and managed automatically by the "Database Service" component.

- **Owners:** Jira