Child Vaccine Companion App: Report and Specification

**Application Name**: Child Vaccine Companion App

**Purpose**: The Child Vaccine Companion App is designed to help parents and guardians keep track of their children's vaccination schedules and ensure they meet all NHS-recommended vaccines. It will provide timely reminders, store vaccination records, and facilitate emergency contacts, ensuring children's health and safety.

# Features and Functionalities

1. **User Profile Management**
2. **Vaccination Tracking**
3. **Reminders and Notifications**
4. **Emergency Contact Functionality**
5. **Data Storage and Security**
6. **User Interface**

# Technical Requirements Compliance

1. **Minimum Two Distinct Screens**:
   * The app will have multiple distinct screens such as Home, Settings, News, and Emergency.
2. **Navigation Component Usage**:
   * Jetpack Navigation Component will be used to navigate between screens.
3. **Intent Usage**:
   * Intents will be used for actions like calling emergency numbers, sending emails, and finding hospitals.
4. **Lifecycle Management**:
   * The app will handle screen rotations and lifecycle changes gracefully, preserving user data and state.
5. **Permission Management**:
   * Permissions will be requested and handled responsibly, ensuring user trust and security.
6. **Local Storage**:
   * DataStore will be used for persistent local storage of user data.
7. **Content Provider**:
   * A ContentProvider will be implemented to manage and share user data securely.
8. **Android Sharesheet**:
   * The app will implement the Android Sharesheet for sharing user profile information.
9. **Notifications**:
   * Notifications will be used to remind users about vaccination schedules and emergency alerts.
10. **Broadcast Events**:
    * The app will receive and handle broadcast events such as network changes meaningfully.

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**Conclusion**

The Child Vaccine Companion App will provide a comprehensive solution for managing children's vaccination schedules all through an app and help kids keep actively keep on top of their health.