**Data Management**

**User Data table**

The following user data is stored in the system. These tables are updated every time a user registers or modifies their personal information. They have existed since the initial construction of the application.

Additionally, whenever a user interacts with the system, such as sharing information, the linked detection data is also updated.

**User’s Phone Number**

**Purpose**: Serves as a unique identifier for each user

**Construction & Updates**: Captured during user registration; automatically updated upon any change to the phone number

**User’s Name**

**Purpose**: Used to identify the user for display and organizational purposes

**Construction & Updates**: Entered by the user during registration and editable in the profile settings

**User Type (Protegee/Trusted Contact)**

**Purpose**: Defines the role of the user in the system for tailored interactions and permissions

**Construction & Updates**: Selected at registration and can be changed by the user or admin

**Linked Contact/User Details**

**Purpose**: Maintains relationships between users (e.g., who is whose trusted contact)

**Construction & Updates**: Generated when a user links another user; automatically updated when links are modified

**Old Linked Contacts**

**Purpose**: Archives previous connections for audit and historical tracking

**Construction & Updates**: Populated when a user unlinks or replaces a contact

**Detection Data table**

The detection data evolves continually. It is updated after every interaction where users share information. This ensures the scam detection engine improves over time.

**Scam Patterns**

**Purpose**: Stores known fraud patterns for early identification and warning

**Construction & Updates**: Compiled from verified reports and updated regularly through AI-assisted analysis of user reports

**Fraud Scripts**

**Purpose**: Contains common scripts and dialogues used by fraudsters

**Construction & Updates**: Collected from reported conversations, then categorized by type and severity

**Keywords**

**Purpose**: Keywords help identify suspicious behavior based on context and frequency

**Construction & Updates**: Dynamically updated using NLP algorithms after user conversations; contextual weighting is applied based on how often keywords appear in scam-related contexts

**Note**: All databases are actively maintained and synced with user activities. They serve as the foundation for personalized detection services and adaptive scam prevention measures.