

Design Document

I. Login & Registration Interface

This screen allows users to access the system or create a new account using Email/Phone number.

- **Title:** Phone Book Management - Login
- **Input Fields:**
 - Account (Email or Phone number).
 - Password.
- **Action Buttons:**
 - [Login]: Authenticates identity and navigates to the Home screen.
 - [Register New Account]: Switches to the registration form.
 - [Forgot Password?]: Requests an OTP code to reset the password.
- **System Status:** Displays error messages for incorrect credentials or success messages for registration.

II. Contact List Interface (Home Screen)

The main interface displayed after a successful login, featuring smart search and fast navigation.

- **Top Bar (Header):**
 - Search Box: "Search by name, phone, nickname..." (Real-time results).
 - [+] Add Contact] button.
 - [Sync] button (Cloud Sync Service).
- **List View:**
 - Sorted alphabetically (A-Z).
 - Each row: [Avatar] - [Full Name] - [Phone Number].
 - **Fast Scrollbar:** A-Z alphabet strip on the right side for quick navigation.
- **Bottom Navigation Bar:**

- [Contacts] | [Call Logs] | [Groups] | [Settings].

III. Contact Detail Interface

Displays all saved information and quick action buttons.

- **Personal Information:**
 - Avatar, Full Name, Company, Job Title.
 - Phone Number (Required), Email, Address, Birthday, Notes.
- **Quick Actions:**
 - [Call] | [Message/SMS] | [Send Email].
- **Management Functions:**
 - [Edit]: Allows updating information.
 - [Delete]: Removes this contact.
 - [Add to Group]: Categorize into Family, Friends, Work, or Favorites.

IV. Add/Edit Contact Interface

Input screen for creating or updating contact details.

- **Title:** "Add New Contact" or "Edit Contact".
- **Input Fields:**
 - *Phone Number (Mandatory).*
 - Full Name, Email, Address, Company, Job Title, Birthday, Notes (Optional).
 - Select Avatar.
- **Action Buttons:**
 - [Save]: Commits changes to the database.
 - [Cancel]: Returns to the previous screen without saving.

V. Call Logs Interface

Displays call history with clear classification indicators.

- **Filters:** [All] | [Missed] | [Incoming] | [Outgoing].
- **Log List:**
 - Each row: [Name/Phone] - [Call Time] - [Duration] - [Call Type].
 - **Visual Indicator:** Missed calls are highlighted in **Red**.
 - Interaction: Tap a row to call back or view contact details.

VI. Administration Interface (Admin Role)

Exclusive to users with the Admin role for system-wide management.

- **User Management List:** Displays account names and activity status.
- **Action Buttons:**
 - [Lock Account]: Suspend user access.
 - [Unlock Account]: Reactivate the account.
 - [View System Reports]: Displays system usage analytics.

VII. Supplementary Features

- **Import/Export Service:** Located in Settings, allowing users to [Import from .json/.csv] or [Export to .json/.csv].
- **Password Recovery:** Enter Phone/Email -> Enter OTP (5-minute expiry) -> Set New Password.