Screens and User Flow Documentation

Overview

This document outlines all the screens in the messaging app, their purpose, functionality, and user flow.

Screens

1. Splash Screen

- **Purpose**: Initial screen shown while the app loads.
- **Actions**:
    - Check if the user is logged in.
    - Redirect to the **Login** screen if not logged in, or to the **Home** screen if logged in.

2. Login Screen

- **Purpose**: Allows users to log in using their email and password.
- **Elements**:
    - Email input field.
    - Password input field.
    - Login button.
    - "Forgot Password?" link.
    - Sign-up link for new users.
- **Actions**:
    - Validate user credentials and redirect to the **Home** screen on success.

3. Registration Screen

- **Purpose**: Allows new users to create an account.
- **Elements**:
    - Email input field.
    - Password input field.
    - Confirm password field.
    - Sign-up button.
- **Actions**:
    - Register the user and send a verification email.
    - Redirect to the **Login** screen after successful registration.

4. Home Screen

- **Purpose**: Central hub of the app, displaying recent chats.
- **Elements**:
    - List of recent conversations with users and groups.

- ○ Floating action button (FAB) to start a new chat.
- **Actions**:
  - ○ Tap on a chat to open the **Chat Screen**.

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5. Chat Screen

- **Purpose**: Displays conversation history and allows users to send and receive messages.
- **Elements**:
  - ○ Messages list (scrollable).
  - ○ Input field for typing messages.
  - ○ Send button.
  - ○ Media attachment button.
- **Actions**:
  - ○ Send text messages.
  - ○ Attach and send media.

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6. Contacts Screen

- **Purpose**: Displays a list of contacts who are also app users.
- **Elements**:
  - ○ Search bar for filtering contacts.
  - ○ Add new contact button.
- **Actions**:
  - ○ Select a contact to open a new chat.

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7. Profile Screen

- **Purpose**: Displays and allows editing of user profile information.
- **Elements**:
  - ○ User's profile picture.
  - ○ Name and email.
  - ○ Edit button.
- **Actions**:
  - ○ Update profile details.
  - ○ Change profile picture.

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8. Settings Screen

- **Purpose**: Allows users to configure app settings.
- **Elements**:
  - ○ Notifications toggle.
  - ○ Theme (light/dark mode) toggle.
  - ○ Privacy settings.
- **Actions**:
  - ○ Adjust settings and save changes.

9. Forgot Password Screen

- **Purpose**: Allows users to reset their password.
- **Elements**:
  - Email input field.
  - Reset button.
- **Actions**:
  - Send password reset email and redirect to the **Login** screen.
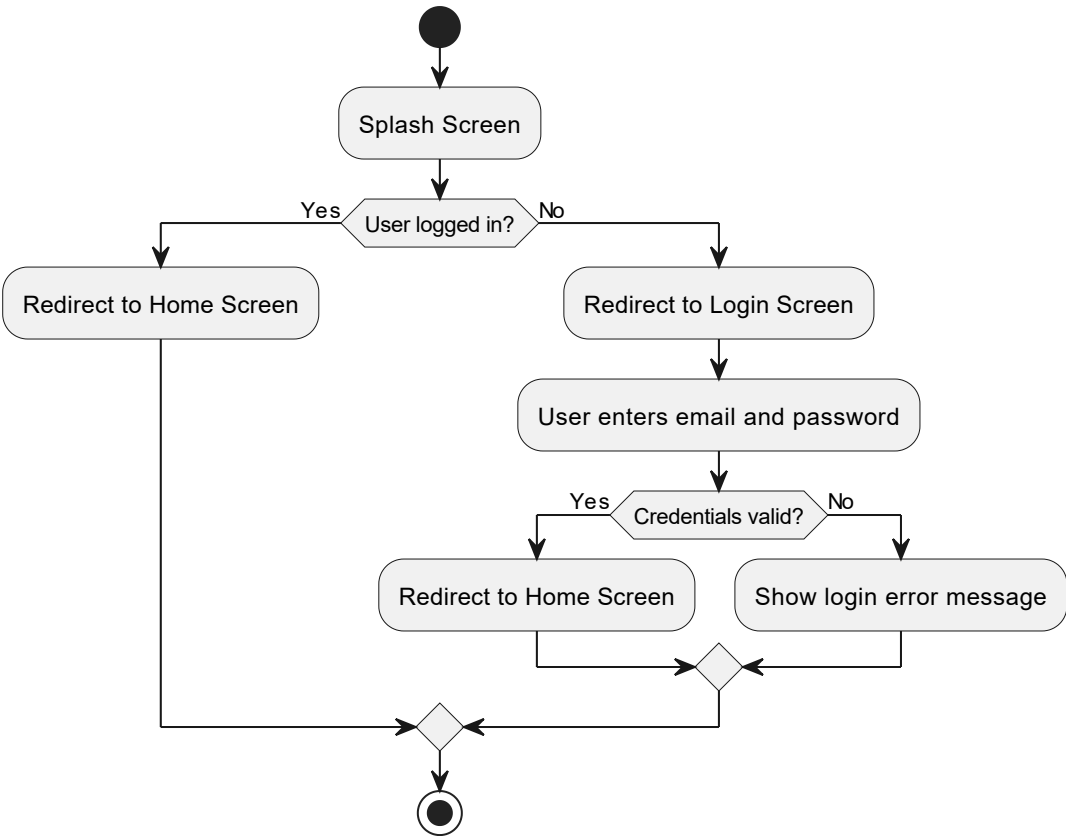
10. Media Viewer Screen

- **Purpose**: Displays media (images, videos) in full-screen mode.
- **Elements**:
  - Media preview.
  - Download button.
  - Share button.
- **Actions**:
  - View, download, or share media.

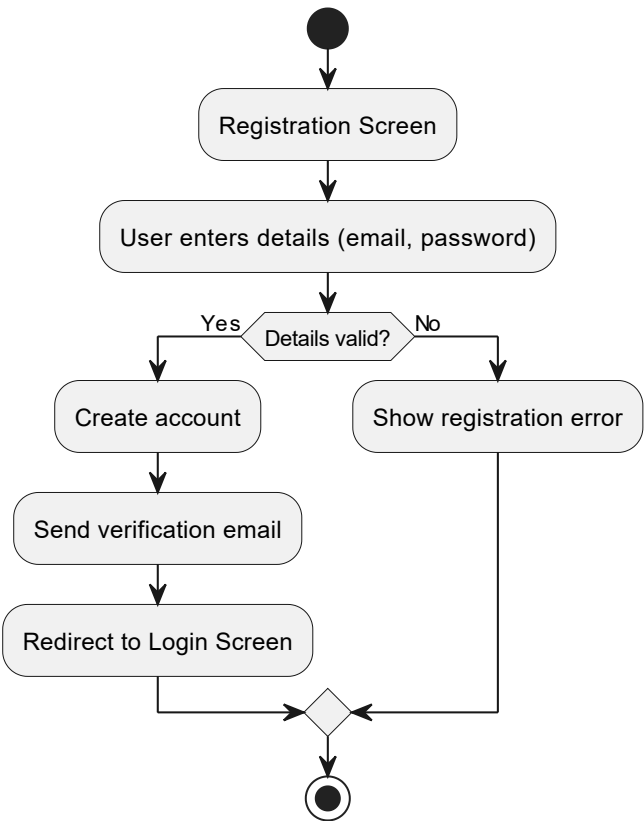# User Flow

User Login Flow

Description

Guides users through the login process from the splash screen to the home screen.

```
                              ●
                              │
                              ▼
                   ┌──────────────────┐
                   │  Splash Screen   │
                   └──────────────────┘
                              │
            Yes               ▼              No
        ┌────────────◇ User logged in? ◇────────────────┐
        │                                               │
        ▼                                               ▼
┌──────────────────────┐              ┌──────────────────────────┐
│ Redirect to Home     │              │ Redirect to Login Screen │
│ Screen               │              └──────────────────────────┘
└──────────────────────┘                          │
        │                                          ▼
        │                        ┌──────────────────────────────┐
        │                        │ User enters email and password│
        │                        └──────────────────────────────┘
        │                                          │
        │                Yes                       ▼              No
        │            ┌──────────◇ Credentials valid? ◇──────────┐
        │            │                                          │
        │            ▼                                          ▼
        │    ┌──────────────────┐              ┌──────────────────────────┐
        │    │ Redirect to Home │              │ Show login error message │
        │    │ Screen           │              └──────────────────────────┘
        │    └──────────────────┘                          │
        │            │                                      │
        │            └──────────────◇───────────────────────┘
        │                           │
        └───────────────◇───────────┘
                        │
                        ▼
                        ◉
```
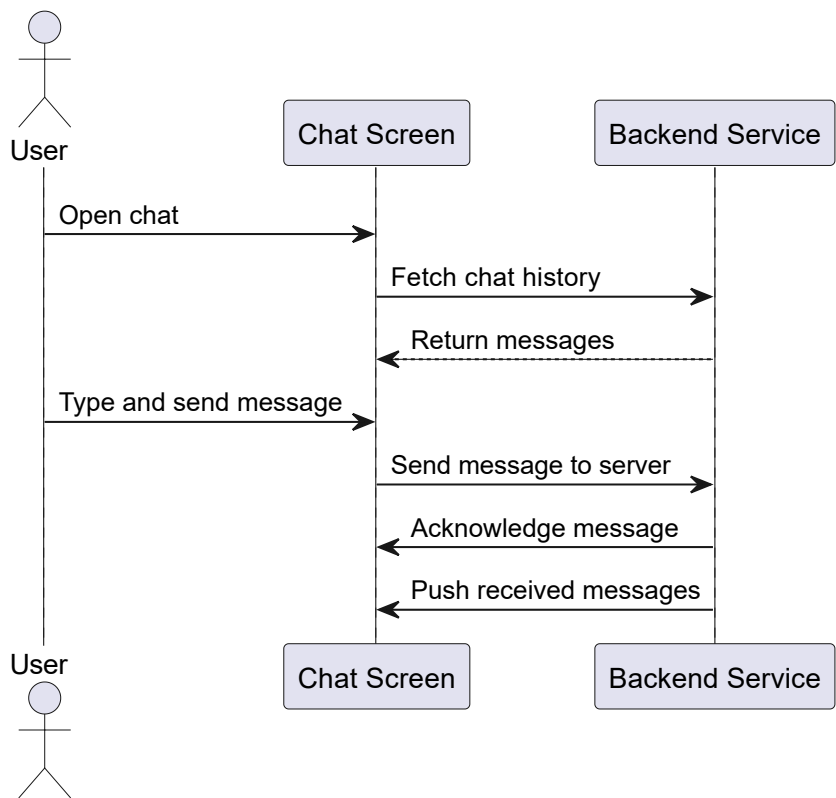

User Registration Flow

Description

Guides new users through the account creation process.

```
                              ●
                              │
                              ▼
                   ┌──────────────────────┐
                   │ Registration Screen  │
                   └──────────────────────┘
                              │
                              ▼
            ┌──────────────────────────────────┐
            │ User enters details (email, password)│
            └──────────────────────────────────┘
                              │
            Yes               ▼              No
        ┌────────────◇ Details valid? ◇────────────────┐
        │                                              │
        ▼                                              ▼
┌──────────────────┐                      ┌──────────────────────────┐
│ Create account   │                      │ Show registration error  │
└──────────────────┘                      └──────────────────────────┘
        │                                              │
        ▼                                              │
┌────────────────────────┐                             │
│ Send verification email│                             │
└────────────────────────┘                             │
        │                                              │
        ▼                                              │
┌────────────────────────┐                             │
│ Redirect to Login Screen│                            │
└────────────────────────┘                             │
        │                                              │
        └──────────────────◇───────────────────────────┘
                           │
                           ▼
                           ◉
```
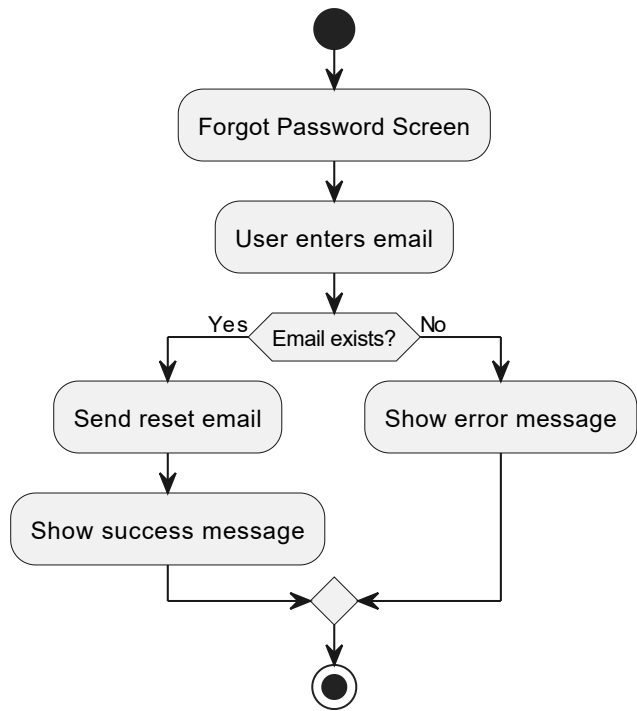
Messaging Flow

Description

Covers sending and receiving messages in the chat screen.

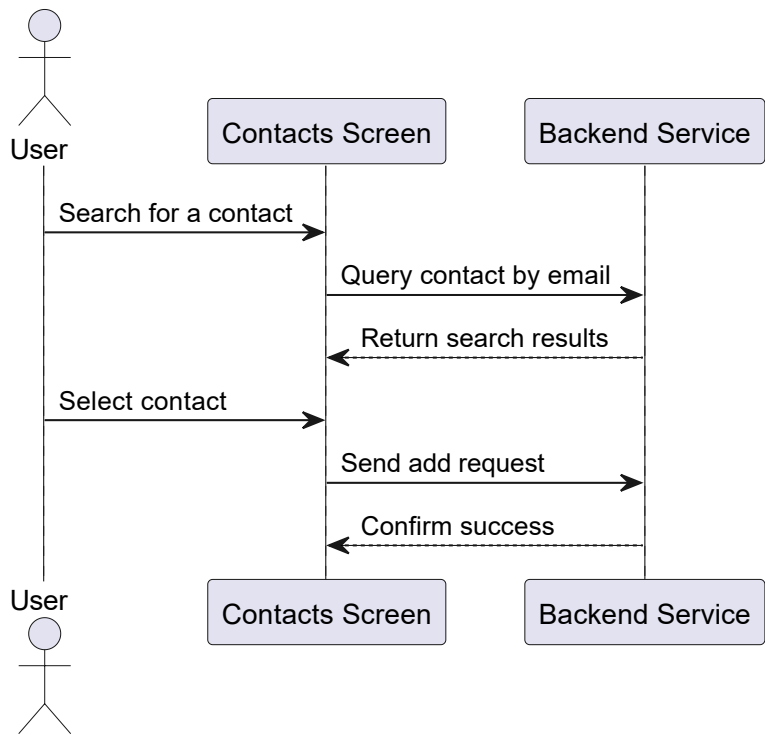## Password Reset Flow

Description

Outlines the process of resetting a user's password.

Contact Addition Flow

Description

Covers adding a new contact to the user's contact list.

Notes for Designers

1. Ensure all screens follow a consistent visual theme.
2. Maintain clear visual hierarchy to highlight important actions (e.g., FABs, primary buttons).

3. Include user feedback for actions (e.g., loading indicators, success/error messages).
4. Optimize for accessibility:
    - Use high-contrast colors.
    - Support screen readers.
    - Provide large tappable areas for buttons.