Screen Sketches

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Tables and Fields for Konnect

User: Tracks user account information and preferences.
- User Id – Primary Key
- Username
- Email
- Privacy Settings
- Hashed Password
- Active (for soft deletion)
- Last Login Time

Profile: Contains detailed information about the user.
- Profile Id – Primary Key
- User Id – Foreign Key to User table
- Bio
- Profile Image Path
- Interests (Could be normalized further if detailed tracking of interests is needed)

Flashcard: Represents the flashcards created by users to showcase interests.
- Flashcard Id – Primary Key
- User Id – Foreign Key to User table
- Title
- Description
- Image Path
- Timestamp

Interest: Categorizes interests to facilitate matching.
- Interest Id – Primary Key
- Interest Name

UserInterest: Links users to their interests.
- UserInterest Id – Primary Key
- User Id – Foreign Key to User table
- Interest Id – Foreign Key to Interest table

Connection: Tracks connections initiated between users.

- Connection Id – Primary Key
- Initiator Id – Foreign Key to User table
- Recipient Id – Foreign Key to User table
- Status (Pending, Accepted, Rejected)
- Timestamp

Message: Handles messaging between users.

- Message Id – Primary Key
- Sender Id – Foreign Key to User table
- Recipient Id – Foreign Key to User table
- Content
- Timestamp

Group: Facilitates group collaborations.

- Group Id – Primary Key
- Group Name
- Description

GroupMembers: Tracks membership in groups.

- GroupMember Id – Primary Key
- Group Id – Foreign Key to Group table
- User Id – Foreign Key to User table
- Role (Admin, Member)

GroupMessages: Stores messages sent within groups.

- GroupMessage Id – Primary Key
- Group Id – Foreign Key to Group table
- Sender Id – Foreign Key to User table
- Content
- Timestamp

Actors and Their Privileges in Konnect
  Viewers:
- Privileges:
    - View flashcards to learn about other users' interests, hobbies, and professions.
    - Save flashcards to a personalized "favorites list" for easy access.
    - "Playback" or revisit saved flashcards for further exploration.

  Editors (Registered Users):
- Privileges (includes all Viewer privileges plus):
    - Create new flashcards to showcase their interests, hobbies, and professions.
    - Edit or update their own flashcards.
    - Delete their own flashcards if they no longer wish to share them.
    - Share flashcards with other users to initiate conversations and connections.
    - Manage elements of their flashcards, like updating interests, adding images, or changing descriptions.
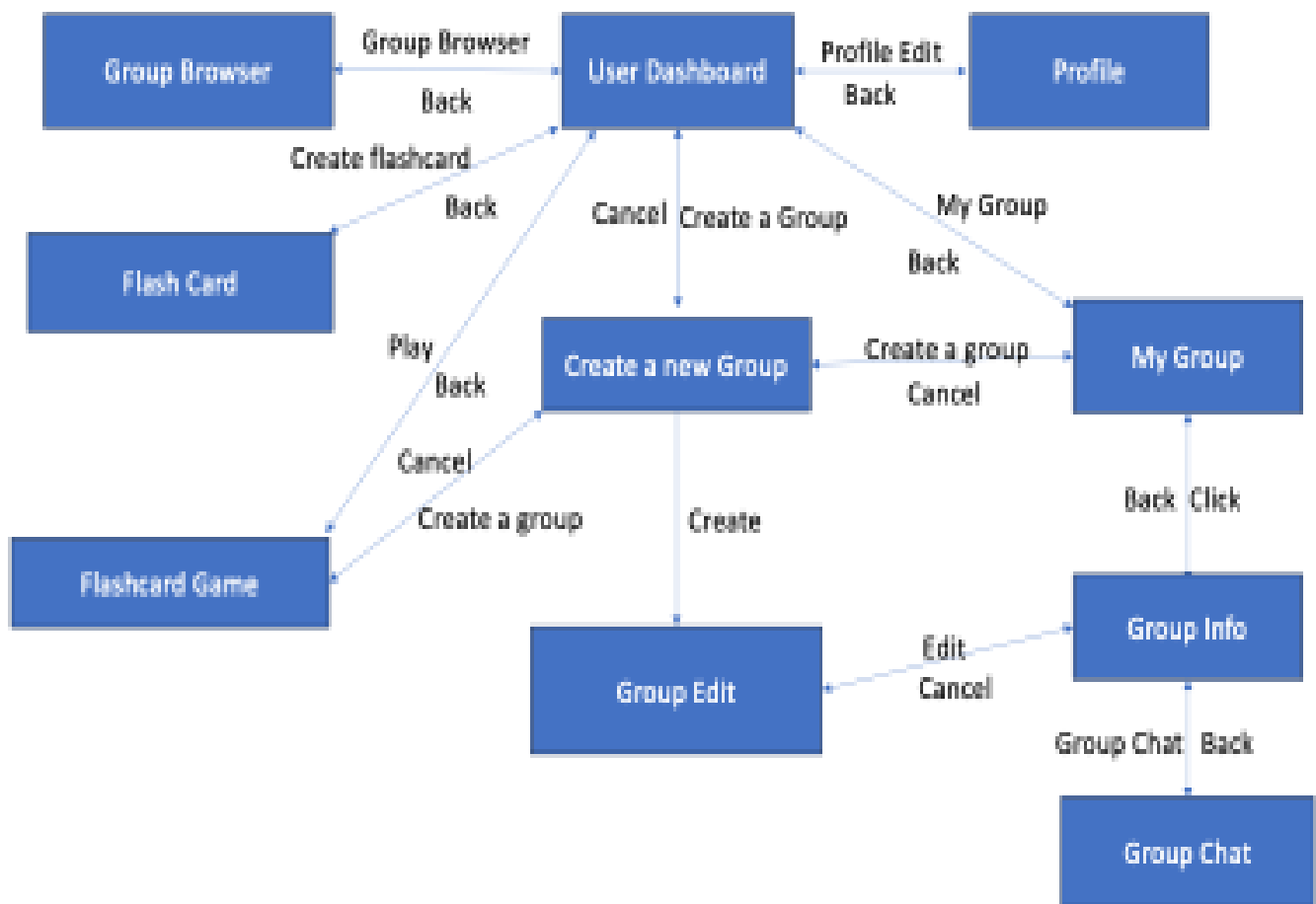
  Administrators:
- Privileges:
    - Nominate flashcards or users for community highlights or awards.
    - Manage featured flashcards on the app's start screen to promote engagement.
    - Take down flashcards or user accounts that violate the app's code of conduct or infringe on copyrights.

Non-Functional Requirements Adapted for Konnect
- Performance:
    - The app must load flashcards and user-generated content within a second to ensure a smooth user experience.

- Implement locking mechanisms or concurrency controls to prevent simultaneous edits to the same flashcard by multiple users.
- Optimize for compatibility and performance on Chrome and Firefox browsers.
- Support real-time interactions and updates without noticeable delays, aiming for UI elements to respond within 0.5 seconds.
- Scalability:
  - Initially support a minimum of 5 active users simultaneously, with the ability to scale as the user base grows.
- Extensibility:
  - Design the application architecture and database schema to easily accommodate new types of users or roles in the future.
- Usability:
  - Ensure that users receive confirmation of actions (like saving flashcards) within 5 seconds to maintain a responsive environment.
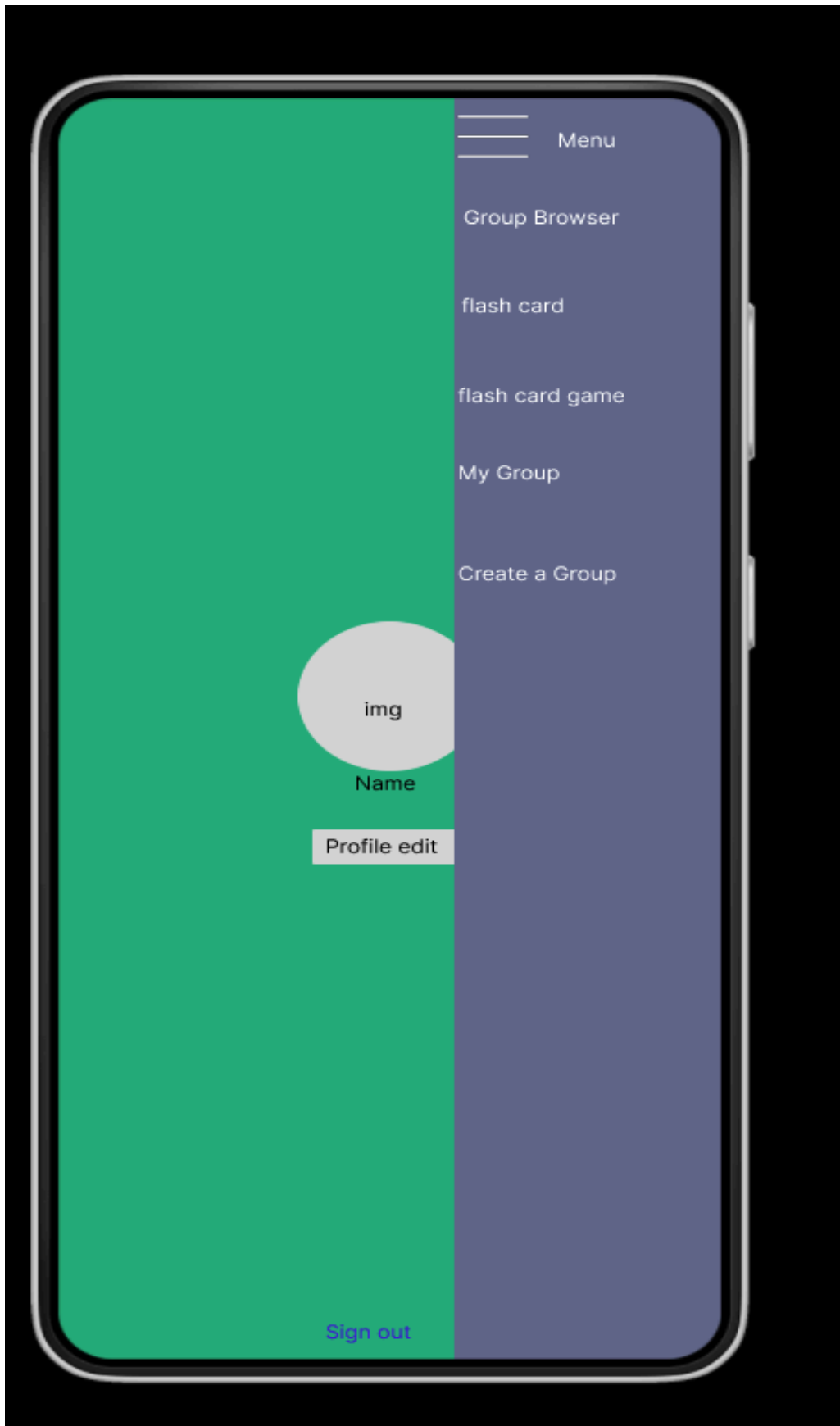
Screen Flow Diagram

Group Browser — **Group Browser** / **Back** — User Dashboard

User Dashboard — **Profile Edit** / **Back** — Profile

User Dashboard — **Create flashcard** / **Back** — Flash Card

User Dashboard — **Cancel** / **Create a Group** — Create a new Group

User Dashboard — **My Group** / **Back** — My Group

User Dashboard — **Play** / **Back** — Flashcard Game

Create a new Group — **Cancel** / **Create a group** — Flashcard Game

Create a new Group — **Create a group** / **Cancel** — My Group

Create a new Group — **Create** — Group Edit

My Group — **Back** / **Click** — Group Info

Group Info — **Edit** / **Cancel** — Group Edit

Group Info — **Group Chat** / **Back** — Group Chat

Figure 1. User Dashboard

User Dashboard Overview:

Upon logging in, the user lands on the Dashboard, which serves as a central hub for the application. The Dashboard's design is intuitive and user-friendly, providing a snapshot of the user's profile and quick access to the app's core features.

Profile Snapshot:

- Profile Image ("img"): A prominent profile image is displayed, giving a personal touch to the user's digital presence within the app.
- Name: Just below the image, the user's name is shown, reaffirming whose dashboard is currently being viewed.
- Profile Edit: A button is available to edit the profile, allowing users to update their image, name, bio, interests, and other personal details.

Menu Options:

- Group Browser: A feature that allows users to explore different groups within the app, based on shared interests or activities.
- Flash Card: This refers to individual flashcards that users can browse through to discover connections or learn about others' interests.
- Flash Card Game: An engaging and interactive way for users to learn about others through a gamified version of the flashcard experience.
- My Group: Provides quick access to groups the user is already a part of, facilitating easy navigation to ongoing discussions or activities.
- Create a Group: Empowers users to start their own groups, fostering community and collaboration on shared interests or projects.

Sign Out:

- The "Sign out" button is clearly visible at the bottom, allowing users to securely exit their account when they're done.

Name:

Phone:

Gender:

Hobby:

Interest:

Short Description:

Save

Figure 2. Profile

- Change Profile Picture: The user can update their profile photo by clicking on the current profile picture.
- Edit Profile Information: The user can enter or modify personal information such as name, phone number, gender, hobbies, and interests. After inserting or changing their details, the user must click the save button to apply the updates.
- Multiple Selections for Hobbies and Interests: The user has the flexibility to select multiple hobbies and interests from a list. This is accessible through a drop-down menu.
- Navigation: There is a "back" button to return to the dashboard or previous page.

Additional features that might be included or considered for this profile page could be:

- Privacy Settings: Allowing the user to control who can see their profile information, such as phone number or email.
- Account Settings: Options to change the password, configure two-factor authentication, or delete the account.
- Notification Preferences: Customization of how and when the user receives notifications from the application.
- Social Connectivity: The ability to link or connect with friends or contacts within the application or through other social media platforms.
- Bio Section: A more extensive area for the user to write a detailed biography or introduction.
- Personalization Options: Customization of the profile's appearance with themes or color schemes.
- Activity Log: A record of the user's activity within the app, like posts, likes, comments, or shares, which can be reviewed or managed from the profile.
- Help/Support Access: A quick link or button to access help resources or contact support directly from the profile page.
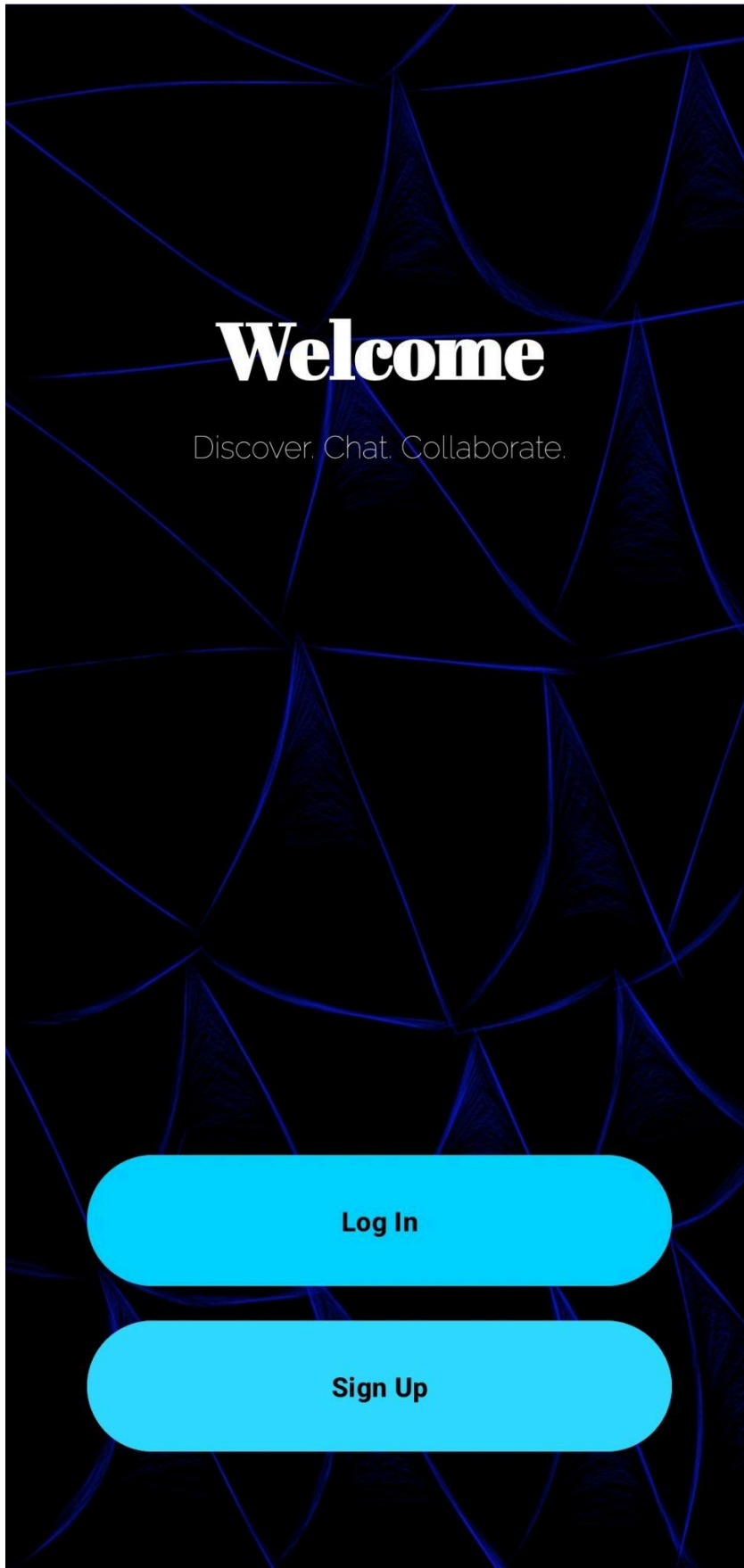
Figure 3: Welcome page (Jayson Acosta)

Upon landing on this application page, users are greeted with a warm welcome. They are presented with two clear options: to log in or sign up. The welcome message, rendered in a crisp white font, is designed for easy visibility.

Beneath the welcome message, the words "Discover. Chat. Collaborate." are subtly displayed in a darker hue, blending into the background to create a sense of depth and intrigue. This design choice intentionally makes these words less prominent, inviting users to explore further.

The login buttons stand out against the backdrop, thanks to their distinctive blue shade. This color choice not only differentiates them from the background but also enhances their visibility. The button text is in black, providing a stark contrast against the blue and matching the background for a cohesive look. This thoughtful color scheme ensures that users can easily navigate their options on this welcoming page.