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.
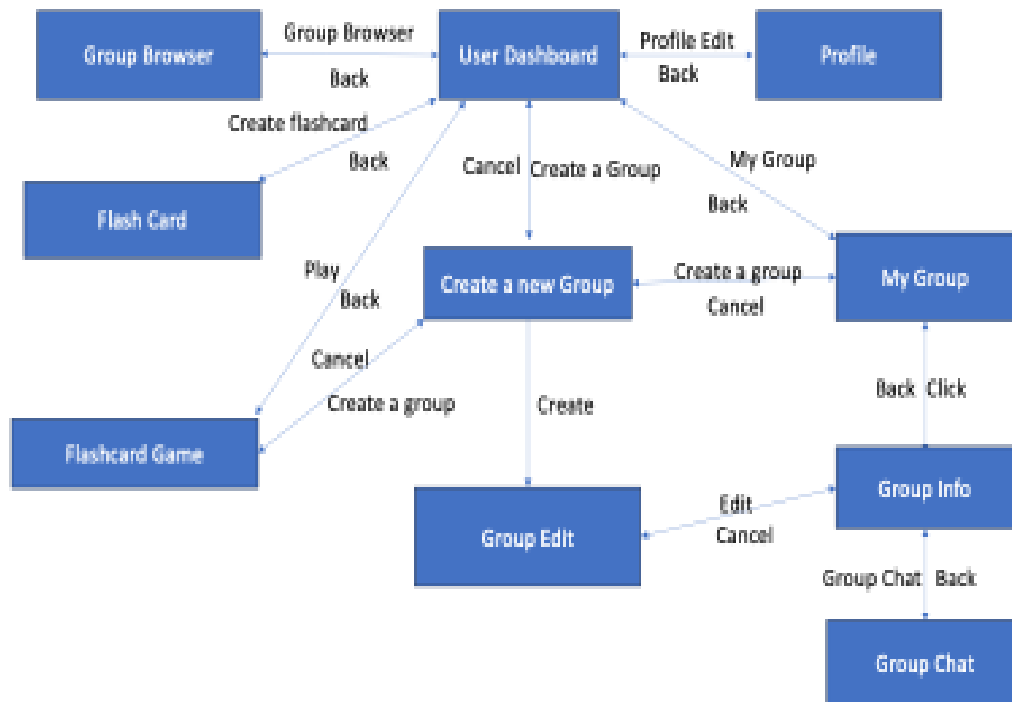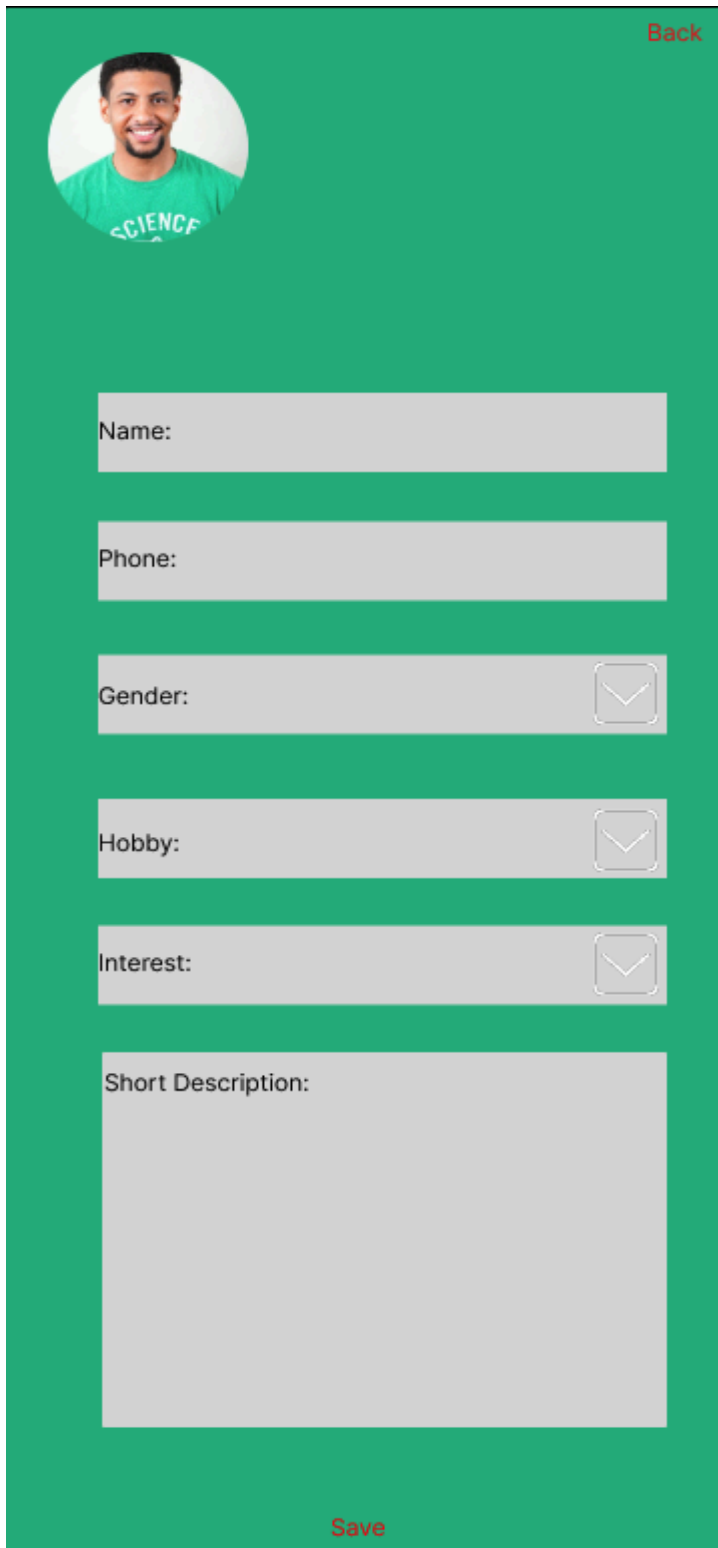
Screen Flow Diagram

Figure1. User Dashboard(Chanho Yang)

Dashboard is the first page after the user login.
- It displays a simple profile including the picture and the name.
- When user clicks the menu, there are Group Browser, flash card, flash card game, My Group, and Create a Group. Each buttons directs to the related functions.
- User can sign out by clicking "Sign out" button

Figure 2. Profile(Chanho Yang)
- User can change his/her picture by clicking the profile picture
- User can change or make their profile, by inserting their informations, and then click the save button.
- User can choose any number of hobbies and interests from the options. When user click the drop-down button, user can click the hobbies or interests listed.
- User can go back to the dashboard by clicking "back"