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.
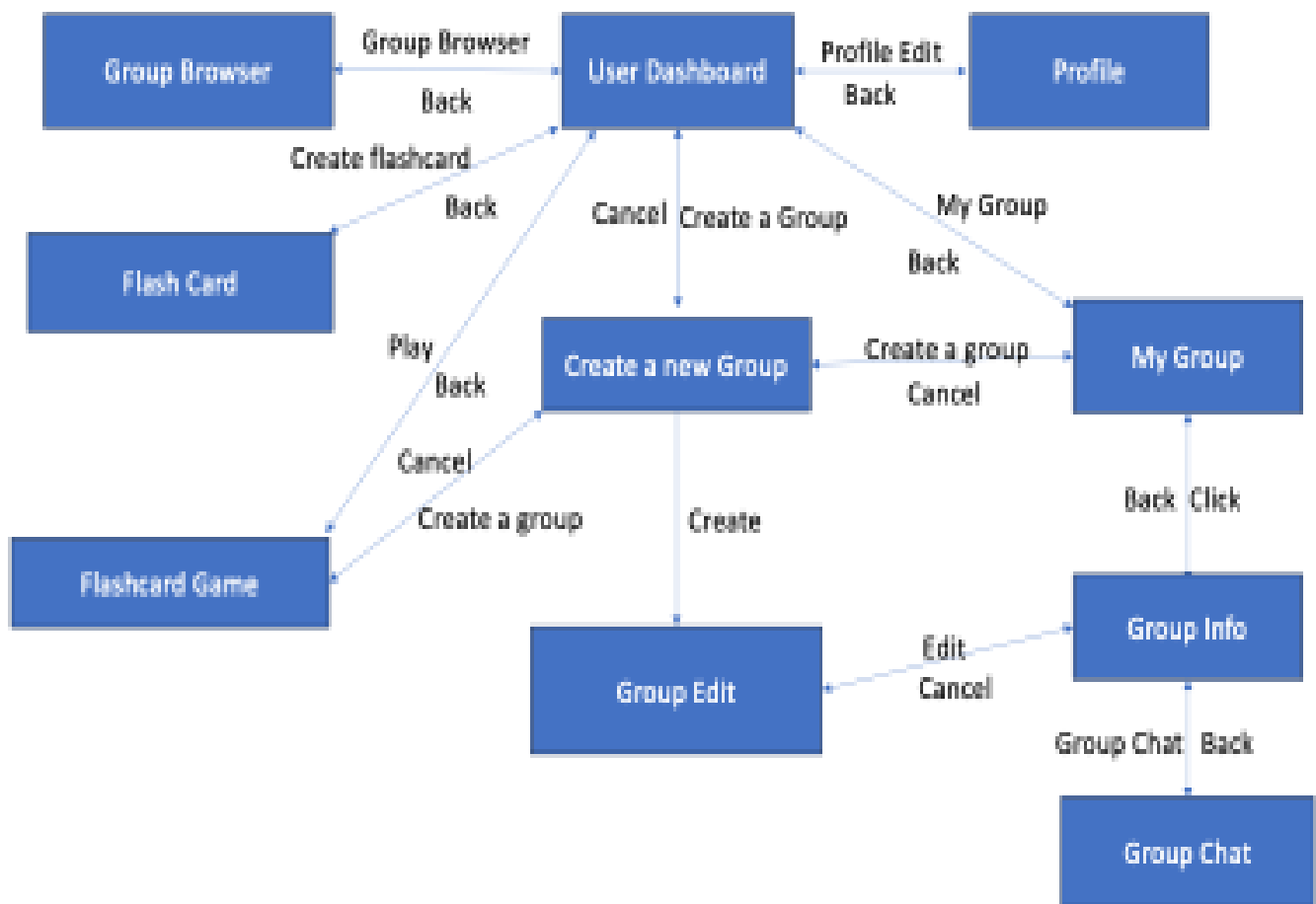
Administrators:

- 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

User Dashboard

Profile

Group Browser / **Back** (between Group Browser and User Dashboard)

Profile Edit / **Back** (between User Dashboard and Profile)

Create flashcard / **Back** (to Flash Card)

Cancel / **Create a Group** (to Create a new Group)

My Group / **Back** (to My Group)

Flash Card

Play / **Back** (Flashcard Game)

Create a new Group

My Group

Create a group / **Cancel** (between Create a new Group and My Group)

Cancel / **Create a group** (Flashcard Game)

Create (to Group Edit)

Back / **Click** (My Group to Group Info)

Flashcard Game

Group Edit

Group Info

Edit / **Cancel** (between Group Edit and Group Info)

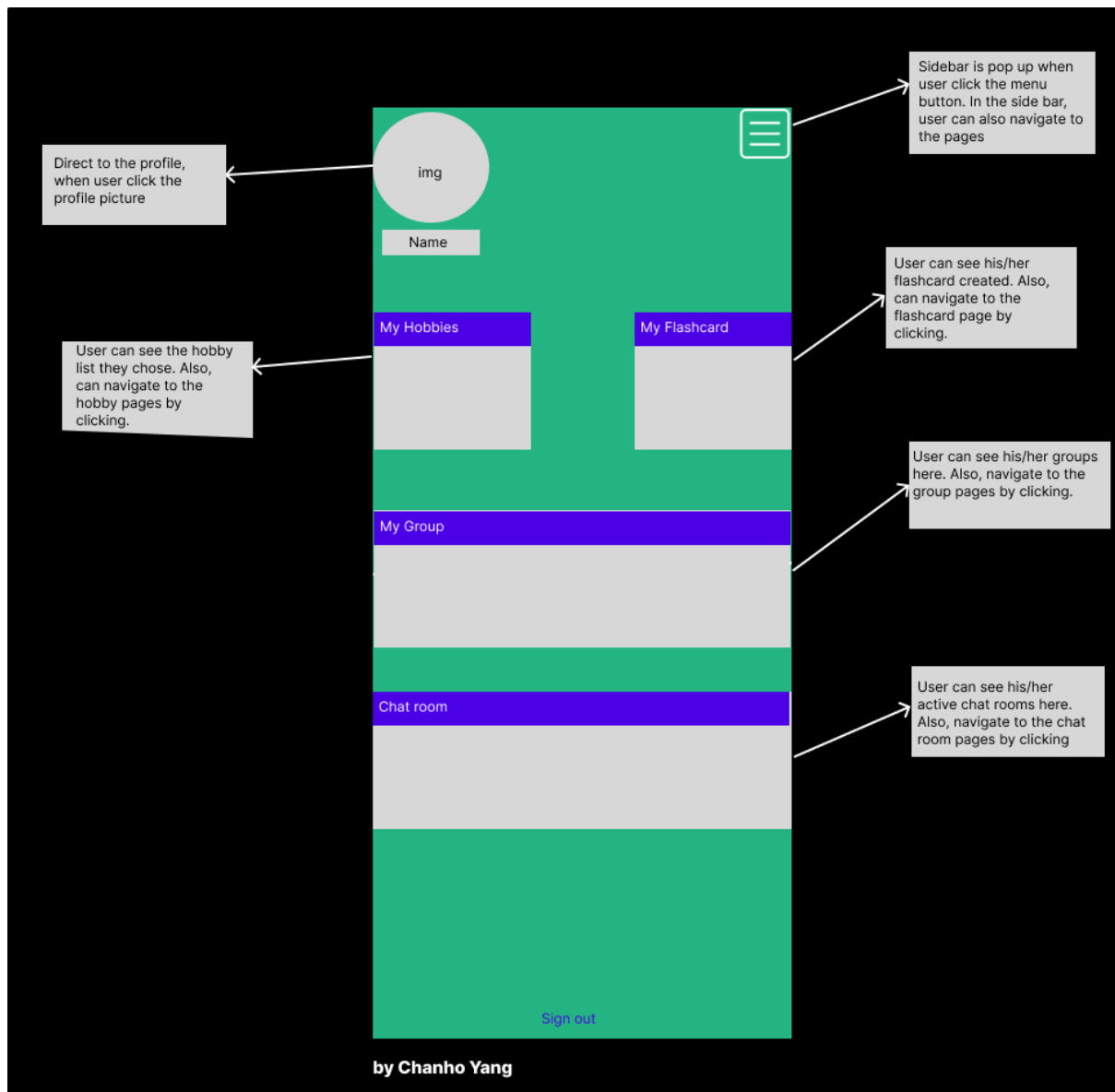**Group Chat** / **Back**

Group Chat

Figure 1. User Dashboard (Chanho Yang)

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.
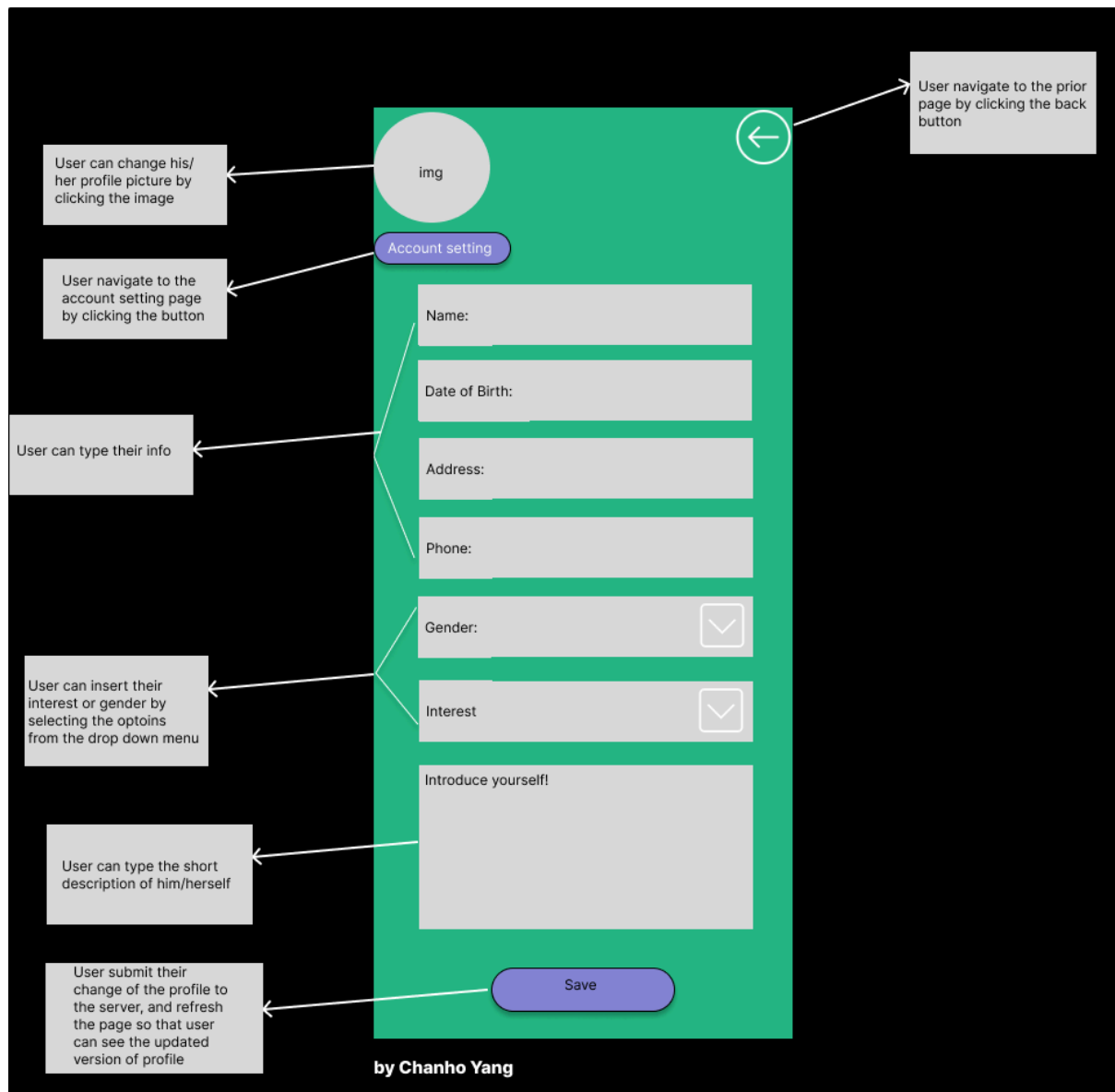
Figure 2. Profile (Chanho Yang)

- 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 Interests: The user has the flexibility to select multiple 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.
- Account Settings: Options to change the password, configure two-factor authentication, or delete the account.
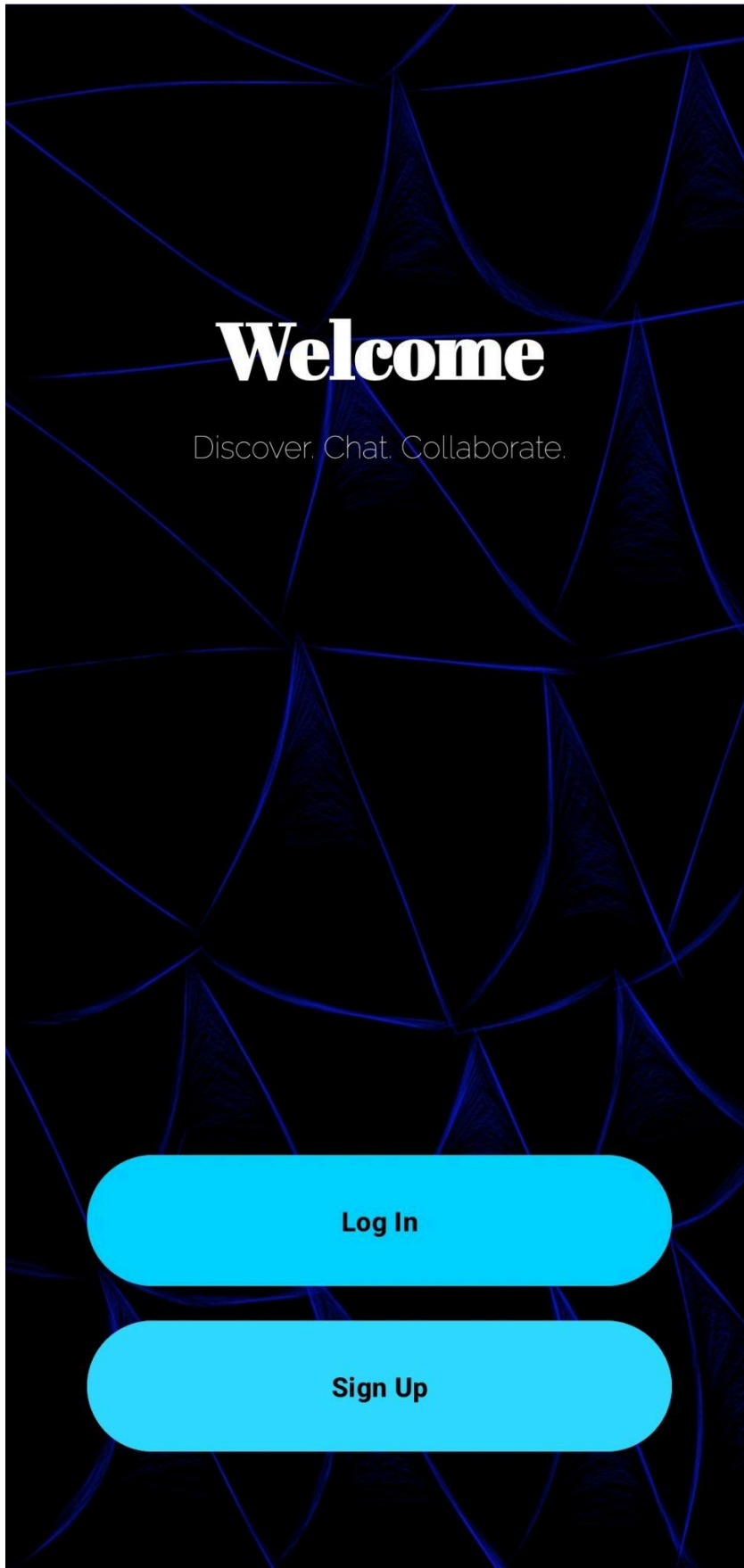
Figure 3: Welcome page (Jayson Acosta)

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.
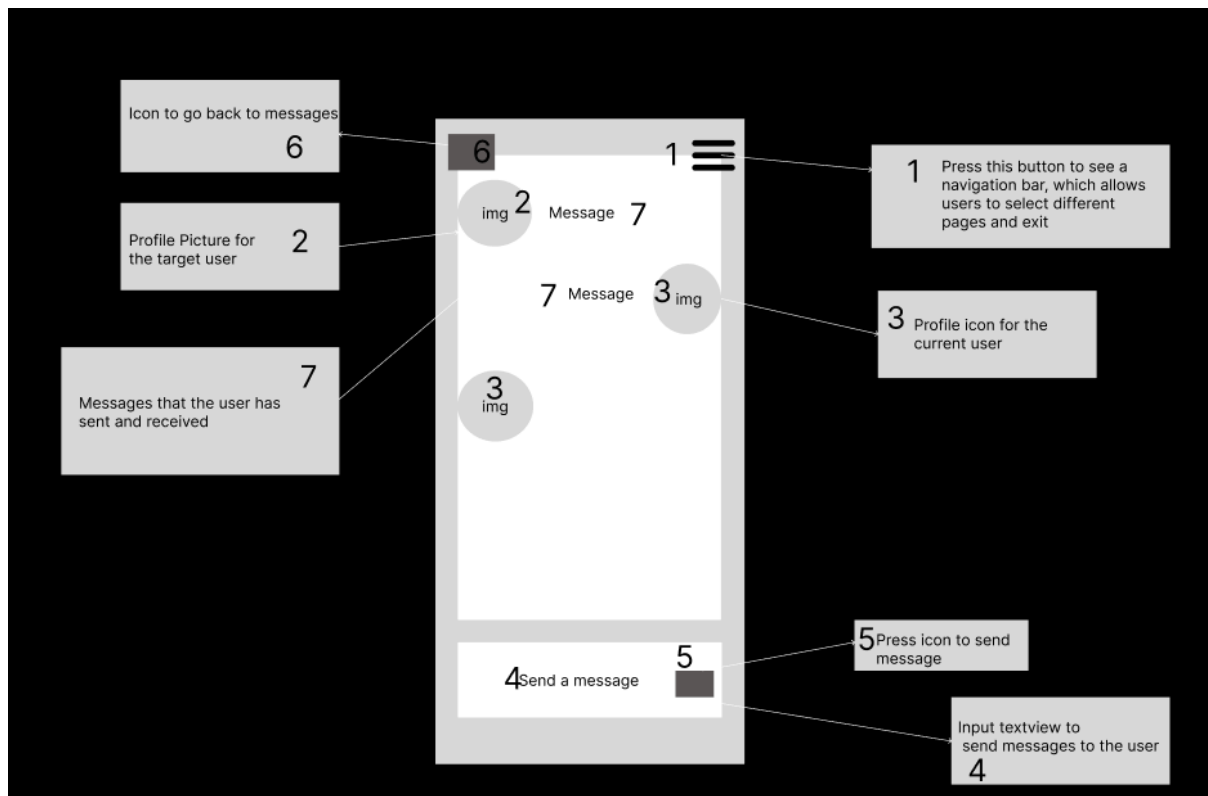
Figure 4: Message page (Jayson Acosta)

This page allows users to communicate with each other through a messaging interface. At the top, there is a profile picture of the user they are messaging. A hamburger menu icon in the top left corner provides access to other application pages. Below the profile picture, previous messages are displayed in a conversational format, with the user's messages on one side and the recipient's messages on the other.

At the bottom of the screen, there is an input field where users can type their message. Next to the input field is a send icon or button that allows users to submit their message to the recipient. Overall, this page facilitates direct communication between users within the application.
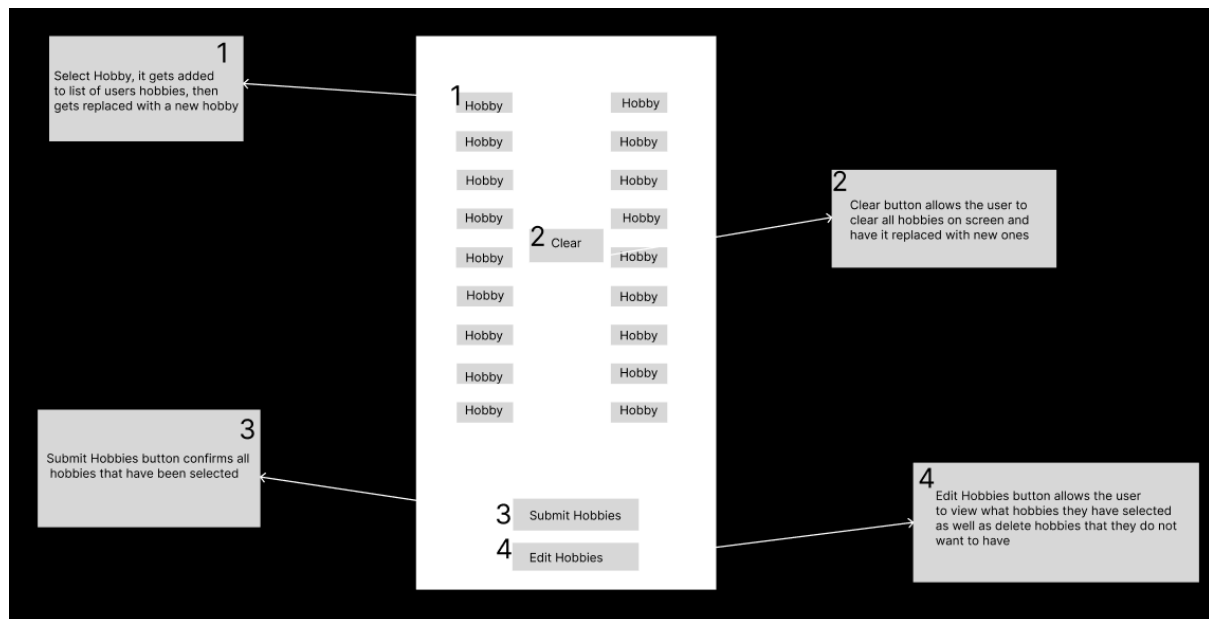
Figure 5: Select Hobbies page (Jayson Acosta)

This page enables users to manage their hobbies or interests within the application. The main area displays a grid of hobby options, with each hobby represented by a rectangular element containing its name.

Users can select or deselect hobbies by tapping or clicking on these elements. The "Submit Hobbies" button confirms the user's selections, while the "Edit Hobbies" button allows them to modify their previous choices.

Additionally, there is a "Clear" button that removes all currently displayed hobbies, providing a fresh start for users to select new hobbies. This feature gives users flexibility in curating their interests and exploring potential connections based on shared hobbies within the application.

This page shows up after signup and is one option for selecting Hobbies in a more fun format
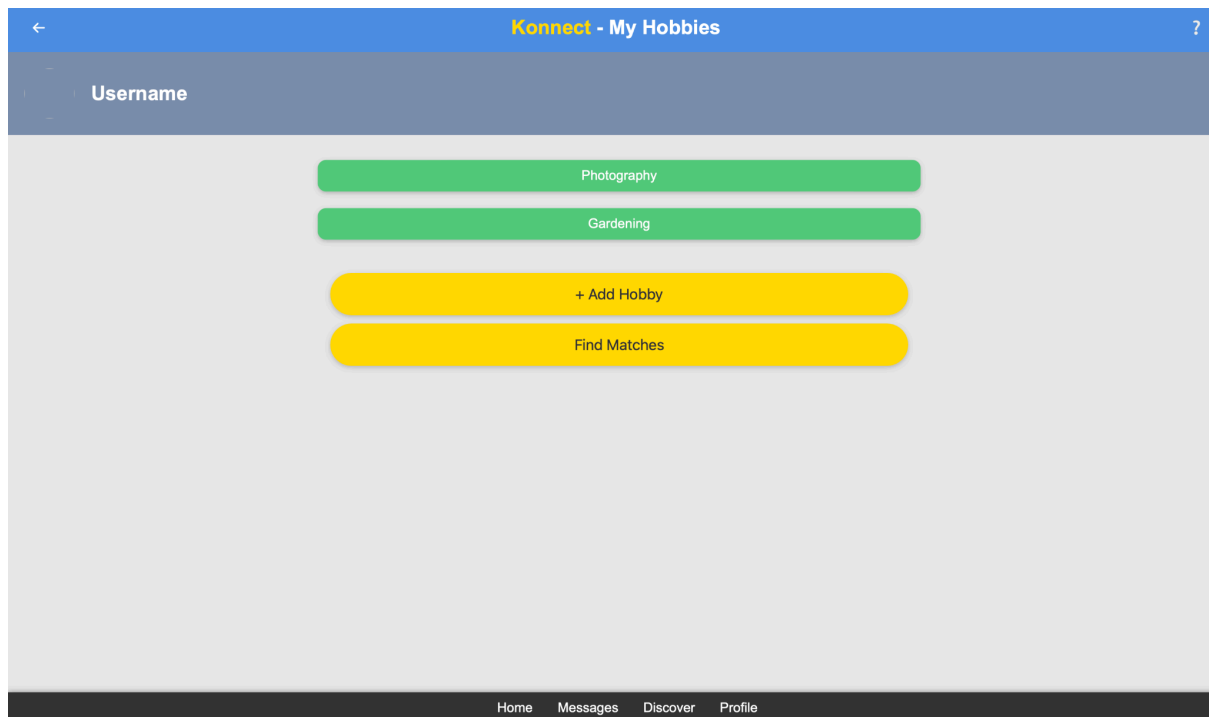
Hobbies screen-nishi

Header:
- The top of the page features a header with a deep blue background.
- On the left side of the header, there's a back arrow indicating a button to return to the previous screen.
- The page title "Konnect - My Hobbies" is centered in the header in a large, legible font.
- A help or information icon is situated on the right side of the header.

Profile Section:
- Just below the header, aligned to the left, is the label "Username" suggesting a placeholder or field where the user's name is displayed.

Hobbies List:
- Central to the page are rounded rectangular elements representing different hobbies. Each hobby is contained in its own rectangle with a label, such as "Photography" and "Gardening."
- The hobby elements have a colored background, making them stand out against the page's light grey background. The colors are soft and pleasing to the eye, with green for photography and a different green shade for gardening, providing a visual hierarchy and easy differentiation.

Action Buttons:
- Below the list of hobbies are two prominent buttons:
  - "+ Add Hobby" with a yellow background, inviting users to add more hobbies to their profile.

- "Find Matches" in the same style, suggesting a feature that allows users to find other users with similar interests.

Footer:
- The footer contains a navigation bar with a dark background that contrasts with the rest of the page.
- It features four evenly spaced icons or labels: "Home," "Messages," "Discover," and "Profile." These likely represent navigation links to other sections of the app.

Profile Picture

Jane Doe

Graphic Designer

Interests: Art, Photography, Design, Technology. Looking to connect with creative individuals and professionals.

Connect   Skip

Flashcard page-nishi

Screen description:UI Screen Description:
Background:

- The screen features a dual-tone background with a purple gradient. The gradient starts with a lighter shade at the top and transitions into a darker shade at the bottom, giving a sense of depth and visual interest.

Profile Card:
- The card is centrally aligned on the page with rounded corners and a soft drop shadow, creating a floating effect above the background.
- It consists of a white background that contrasts nicely with the purple gradient, making the card the focal point of the screen.

Card Content:
- At the top of the card, a placeholder for the profile picture is evident, denoted by a rectangle with rounded corners and the label "Profile Picture".
- Below the profile picture placeholder is the user's name, "Jane Doe", displayed in a bold, large font size to draw attention.
- Beneath the name, the user's profession, "Graphic Designer", is indicated in a slightly smaller font size and with less weight, providing a clear hierarchy of information.
- A brief description or bio follows, with the header "Interests" leading into a list that includes Art, Photography, Design, and Technology. This section details the user's hobbies or interests and an intention statement about connecting with like-minded professionals.

Action Buttons:
- At the bottom of the card, there are two action buttons side by side - "Connect" and "Skip".
- "Connect" is styled with a vibrant green color, suggesting a positive action, encouraging users to connect with Jane Doe.
- "Skip" is styled in red, typically indicating a negative or alternative action, allowing users to pass on the profile and move to the next.
- Both buttons have rounded corners and are presented in a way that signifies their importance in user interaction.

Tables - nishi

id	user_bio	user_image_path	user_password	acceptance_co...	email_id	if_active	joining_date	last_loggin	name	username	view_c...
1	NULL	NULL	Daniel123	0	dmvp01@somemail.com	1	2024-03-03 16:50:17	NULL	Daniel	danielUser	0
2	NULL	NULL	Nishi456	0	Nishi@somemail.com	1	2024-03-03 16:50:17	NULL	Nishi	nishiUser	0
3	NULL	NULL	Jayson789	0	Jayson@somemail.com	1	2024-03-03 16:50:17	NULL	Jayson	jaysonUser	0
8	NULL	NULL	TestUserPassword	0	testuser@example.com	1	2024-03-03 17:04:37	NULL	Test User	testUsername	0
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

id	hobby_type	name
1	INDOOR	Painting
2	OUTDOOR	Football
3	GROUP	Book Club
NULL	NULL	NULL