

COSC 341 Project Step 4 Report

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<https://github.com/JacobDamery/341-Code->

1. System Overview

Our app, Strive, is a fitness-oriented social platform much like instagram that allows users to share workout progress, follow friends, and track fitness goals. The four goals/pages we implemented are as follows:

- Creating and sharing fitness posts
- Following other users and viewing their activity
- Setting and tracking personal fitness goals
- Viewing your profile and the profile of your friends.

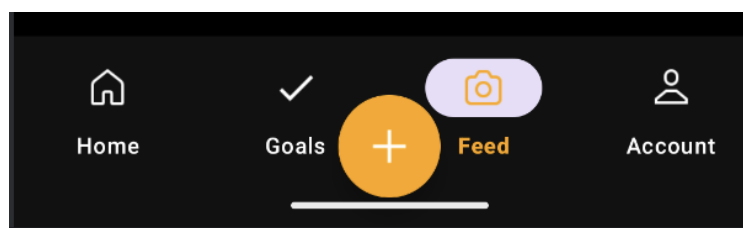
The goal of our project is to help individuals stay motivated and hold themselves accountable by attempting to offer an engaging platform where they can track their progress, share their workouts, and connect with others on a similar journey.

2. Design Principles Applied

This section shows how the interface design incorporates the 8 key design principles: visibility, feedback, constraints, consistency, affordances, simplicity, matching, and help.

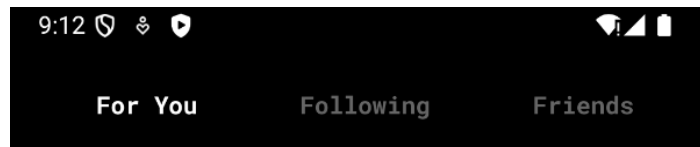
2.1 Visibility

Screenshot 1



- **Highlighted UI Element:** Task Status Icons
- **Explanation:** Our footer showcases what page you are currently viewing via different coloured icons which helps with visibility as it allows you keep track of what page you are currently on while exploring the platform.

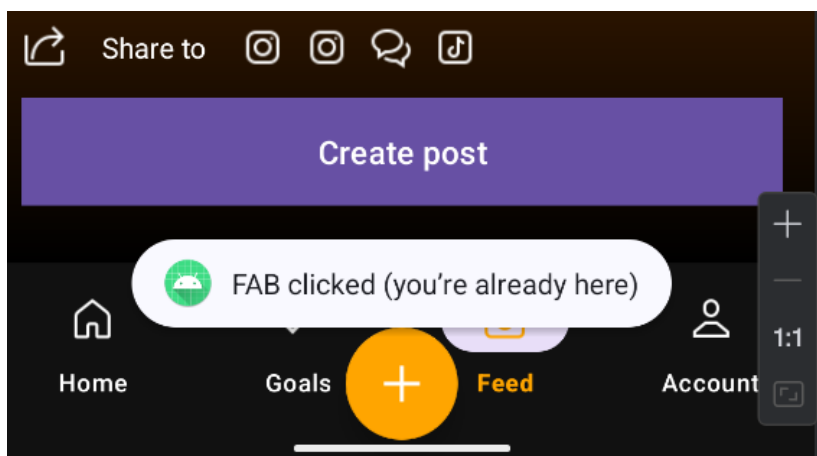
Screenshot 2



- **Highlighted UI Element:** Navigation Bar
- **Explanation:** At the top of some pages we include a For You, Following, and Friends tab which helps you keep track of what content you are currently viewing. For You should redirect you to a discover page which allows you to view related content. Friends shows you your friends list and Following allows you to see what your friends have been posting. This much like the previous example help with visibility as it allows you to keep track of where you are on the platform.

2.2 Feedback

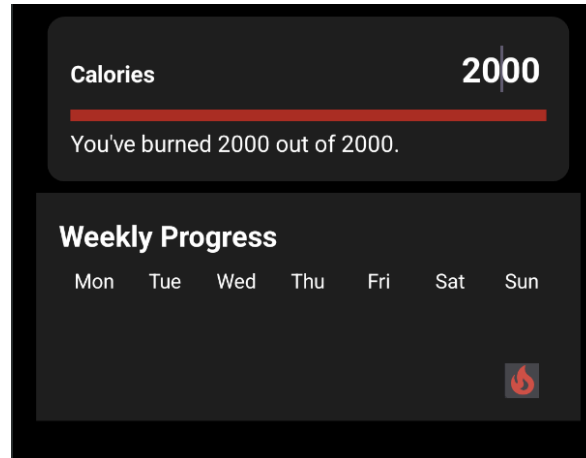
Screenshot 1



- **Highlighted UI Element:** Toast message

- **Explanation:** This provides and immediate feedback that tells the user that they are already on the page that they are trying to access

Screenshot 2



- **Highlighted UI Element:** Animated Progress Indicators
- **Explanation:** Once a specific goal is hit there is an icon that appears in your weekly progress card. This indicates that the goal has been completed for that specific date and is a way of providing feedback for the user.

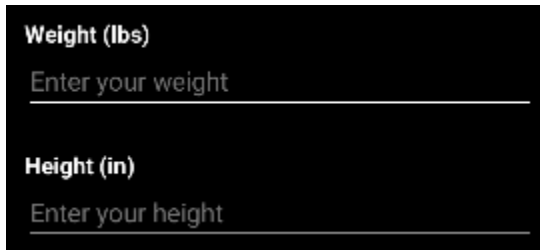
2.3 Constraints

Screenshot 1

The screenshot shows a dark-themed user interface with a 'Gender' dropdown menu. The menu is open, displaying a list of options: 'Select gender', 'Male', 'Female', 'Non-binary', and 'Prefer not to say'. The 'Select gender' option is currently selected, and a small downward arrow icon is visible to its right. The dropdown menu is styled with a white background and a dark border, contrasting with the dark theme of the surrounding interface.

- **Highlighted UI Element: Gender Dropdown Menu**
- **Explanation:** This dropdown lets users choose their gender. Options include *Male*, *Female*, *Non-binary*, and *Prefer not to say*. It starts with *Select gender* to make sure the user picks an option.

Screenshot 2

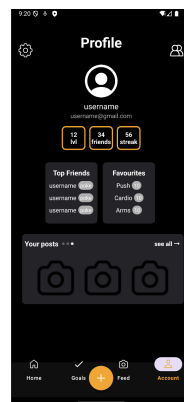


A screenshot of a registration form with a dark background. It features two input fields: 'Weight (lbs)' with the placeholder text 'Enter your weight' and 'Height (in)' with the placeholder text 'Enter your height'. Both fields have a light gray border and a small white underline at the bottom.

- **Highlighted UI Element:** Predefined input fields (e.g., in, lbs)
- **Explanation:** Limiting input types to structured fields helps avoid user errors and maintains data consistency.

2.4 Consistency

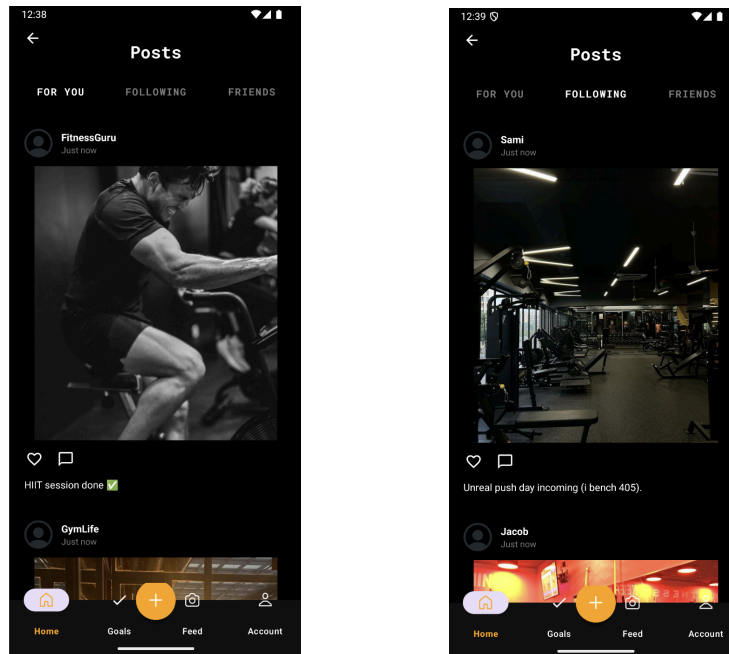
Screenshot 1



- **Highlighted UI Element:** Uniform Icon and Color Usage

- **Explanation:** Icons and color schemes remain consistent across all pages, this helps reduce cognitive load and overall makes everything simple and clean.

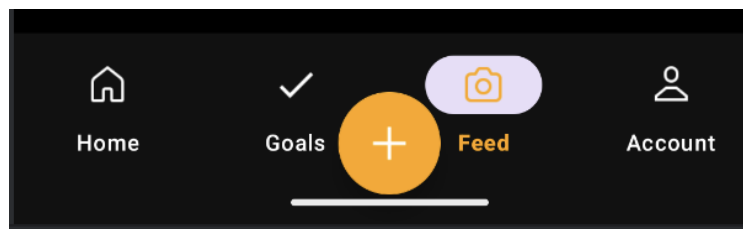
Screenshot 2



- **Highlighted UI Element:** Repeated card layout across Following and For You tabs
- **Explanation:** The same visual format for displaying posts on the for you and following page ensures users can recognize content patterns easily.

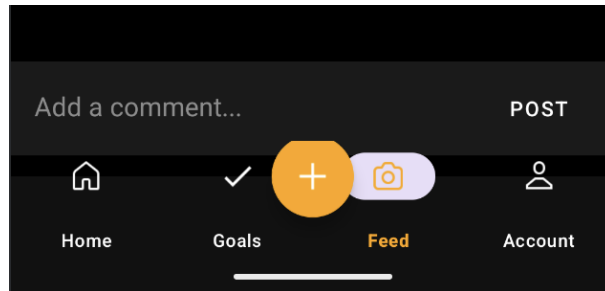
2.5 Affordances

Screenshot 1



- **Highlighted UI Element:** Rounded clickable buttons
- **Explanation:** Buttons are styled to indicate interactivity through shadows, colors, and hover responses.

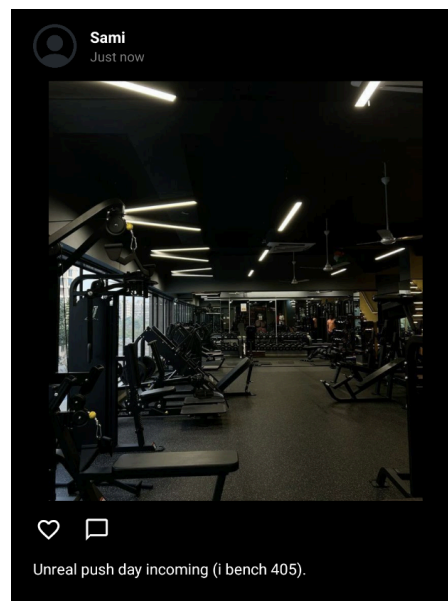
Screenshot 2



- **Highlighted UI Element:** Input text boxes with labels and borders
- **Explanation:** These fields look like traditional input areas, inviting users to enter text.

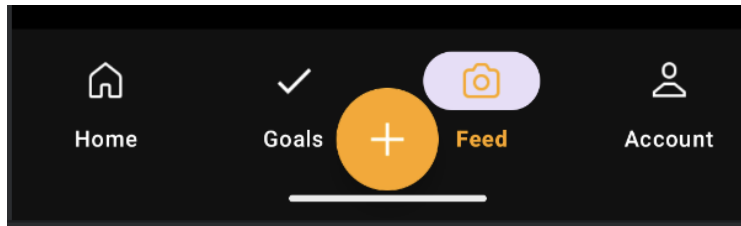
2.6 Simplicity

Screenshot 1



- **Highlighted UI Element:** Clean workout post display
- **Explanation:** Posts show only the most essential details, avoiding unnecessary visual clutter.

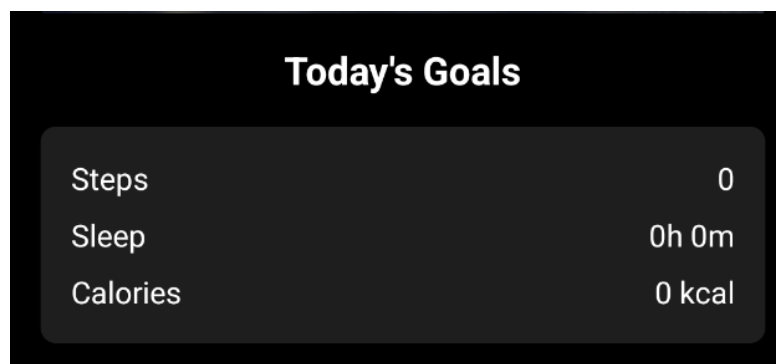
Screenshot 2



- **Highlighted UI Element:** Minimal bottom nav bar
- **Explanation:** The nav bar includes only core features, making navigation straightforward and distraction-free.

2.7 Matching

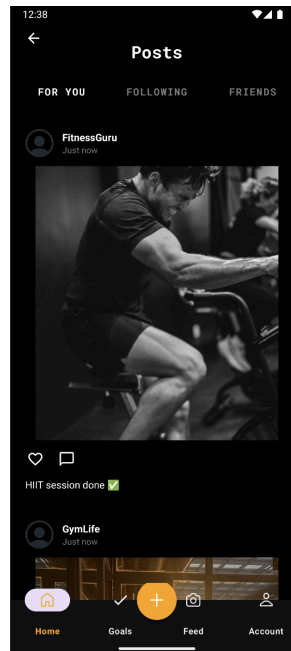
Screenshot 1



- **Highlighted UI Element:** Common terminology

- **Explanation:** Terms like “sets,” “reps,” and “weight”, “steps”, “sleep time”, “kcal for calories” align with user expectations and fitness domain knowledge.

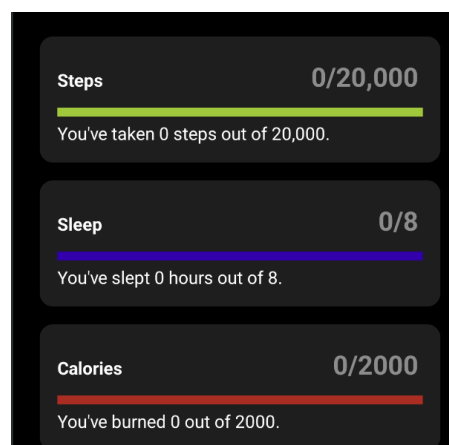
Screenshot 2



- **Highlighted UI Element:** Social media-style profile layout
- **Explanation:** User profiles mimic familiar social media design (followers, posts), reducing the learning curve.

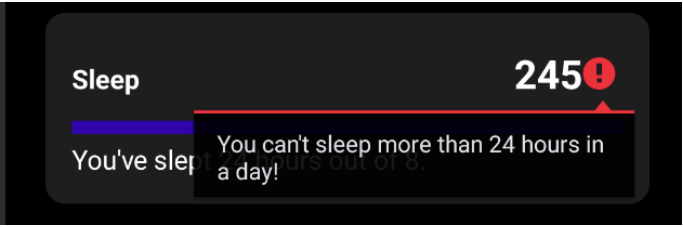
2.8 Help

Screenshot 1



- **Highlighted UI Element:** Placeholder hints in forms
- **Explanation:** Input fields guide users with placeholder text such as "0/20000," helping avoid confusion.

Screenshot 2



- **Highlighted UI Element:** Clear error validation messages
- **Explanation:** Error text appears near the problematic field, making it easy for users to resolve issues quickly.

3. Summary of Heuristic Evaluation

Name	Problem	Heuristic Violated	Severity	User Suggestion
Cai Lewendon	No visual confirmation when avatar is saved	Visibility of System Status	Major	Show checkmark or navigate to profile after saving
	Avatar options feel unresponsive when tapped	Affordance	Minor	Add tap/hover animation to avatars
	"Save" button is active even when no changes are made	Error Prevention	Minor	Disable the save button until a change is made

Evan Pasenau	Default avatar and custom image selections are styled differently	Consistency and Standards	Minor	Use the same selection styling (e.g., orange border) for both default and custom avatars
	Previously selected avatar isn't highlighted when returning	Recognition Rather Than Recall	Minor	Highlight previously selected avatar on load
	Upload image button lacks emphasis	Aesthetic and Minimalist Design	Minor	Add an icon or increase contrast to highlight the upload button
	Sleep input only allows whole numbers	Freedom and Control	Major	Allow decimal input for more accurate sleep tracking
Jaxon Hay	App doesn't check image format or size	Error Prevention	Major	Add file size/type validation before uploading
	No option to crop or resize uploaded image	Flexibility and Efficiency of Use	Minor	Add a basic cropping tool before saving a custom image
	No indication that avatar save was successful	Visibility of System Status	Major	Navigate to profile or show a save success screen
	App gives no feedback on submission	Feedback	Critical	Show loading indicator and confirmation
	No emojis on home page goal tracker (unlike Goals & Progress page)	Consistency and Standards	Minor	Add goal-completion emojis to home page to match the progress section

4. Video Demonstration

Slide show presentation:

<https://youtu.be/RvhzrlbUNYE>

Demo presentation:

https://www.youtube.com/watch?v=Wld4pcqKDyM&ab_channel=SamiJaffri

