

## **Software Development: Lab 9 - Kickstart Group Project**

Due: Friday March 21st, 2025

### **Team Number:**

014 - 1

### **Team Name:**

GoPalz

### **Team Members (6):**

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### **Application Name:**

GoPal

### **Application Description:**

Our application strives to gamify working out in a positive, impactful way using a small character that benefits from the users physical activity throughout the day. Our application links to statistics collected by your phone via the strava API such as miles walked, or user input such as time spent weightlifting, cycling, etc etc. When this information is linked to our application, the little character experiences upgrades to their appearance and mental health. In order to ensure user safety, this application will also inform the user if outdoor conditions are less than ideal. If the air quality is poor, if the weather is dangerous, the user will receive a pop up warning them of the conditions.

The character will experience a growth cycle based upon your physical activity. You can use this account to track your activity in such a way that you can go back and see what you have done in the past. You will be able to add comments into the application to help you hold to your health goals, and remember what you have done, and want to do in the future. In addition to personal benefit and gain from this app, there will be an option to interact with your friends and family. Your characters can meet and have fun with each other! These social media aspects would require a proper database, and some sort of login.

Brief: Our app gamifies workouts by linking your phone's activity data to a character that grows with your exercise. The app also provides safety alerts about weather and air quality. You can track your progress, set goals, and interact with friends and family.

**Audience:**

- Nostalgic folks
- Athletes looking for motivational tracking
- People who enjoy the granola lifestyle
- People who shop REI
- People who enjoy the farmers market/birkenstocks
- People who want to boost their enjoyment of exercise

**Vision Statement:**

To provide nostalgics with fun companions to support a user's exercise desires. GoPal is an exercise-tracking means to raise and develop a strong companion while improving oneself. Unlike Pokemon go, which emphasizes development of NPCs, GoPal prioritizes user health over all else

For students, who want motivation to be active. GoPal is an activity tracker that both wants to help you become active and to keep you active. Unlike strava or other activity trackers, our product will make activity more of a game rather than a task.

**Version Control:**

<https://github.com/ranegray/GoPal>

**Development Methodology:**

Agile

**Communication Plan:**

Discord

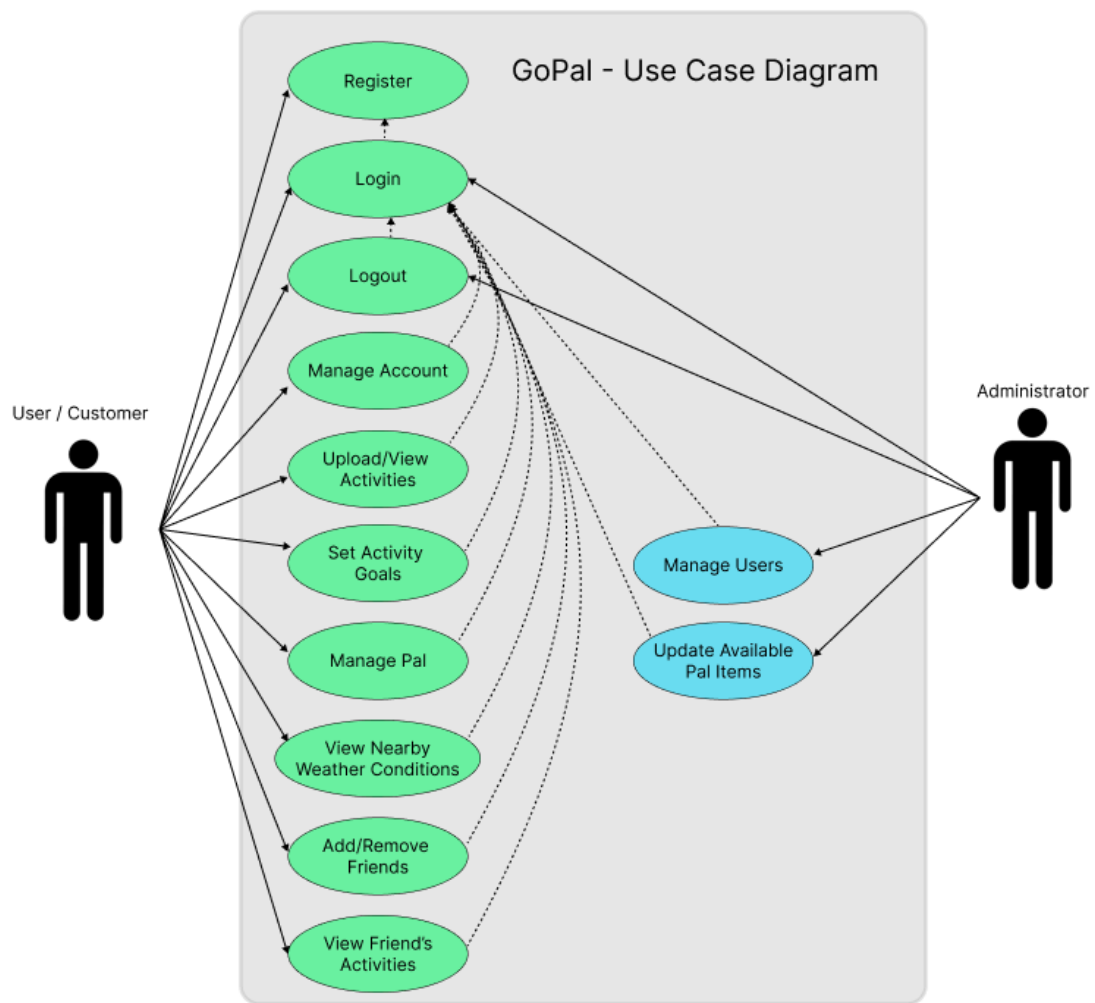
**Meeting Plan:**

We will be generally meeting during our Lab, and communicating via discord in order to make enhancements remotely according to our schedules.


**Weekly Meetings:**

(TA) Thursday, 11:00 AM - 11:15 AM; face-to-face if possible, but can also join via Zoom.

## Use Case Diagram:



## Wireframes:



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### Create your account

Email

Password

Name

Username

Sign Up

Already have an account? Login [here](#).

GoPal


Home

Activity

Social

Pal

Settings



John Doe  
Level 5

View Profile

## Settings

AccountProfilePal Settings

### Personal Information

Name

Email

Age

Country

Save Changes

## GoPal

Home

Activity

Social

Pal

Settings



John Doe  
Level 5

View Profile

## Goals

### Weekly Goal

Workout 3 times

Run and Weightlift

### Monthly Goal

Improve mile time

Hit squat PR

### Yearly Goal

Run December 5k

Improve cardiovascular health

## Your Week at a Glance

Monday



Tuesday



Wednesday

Thursday



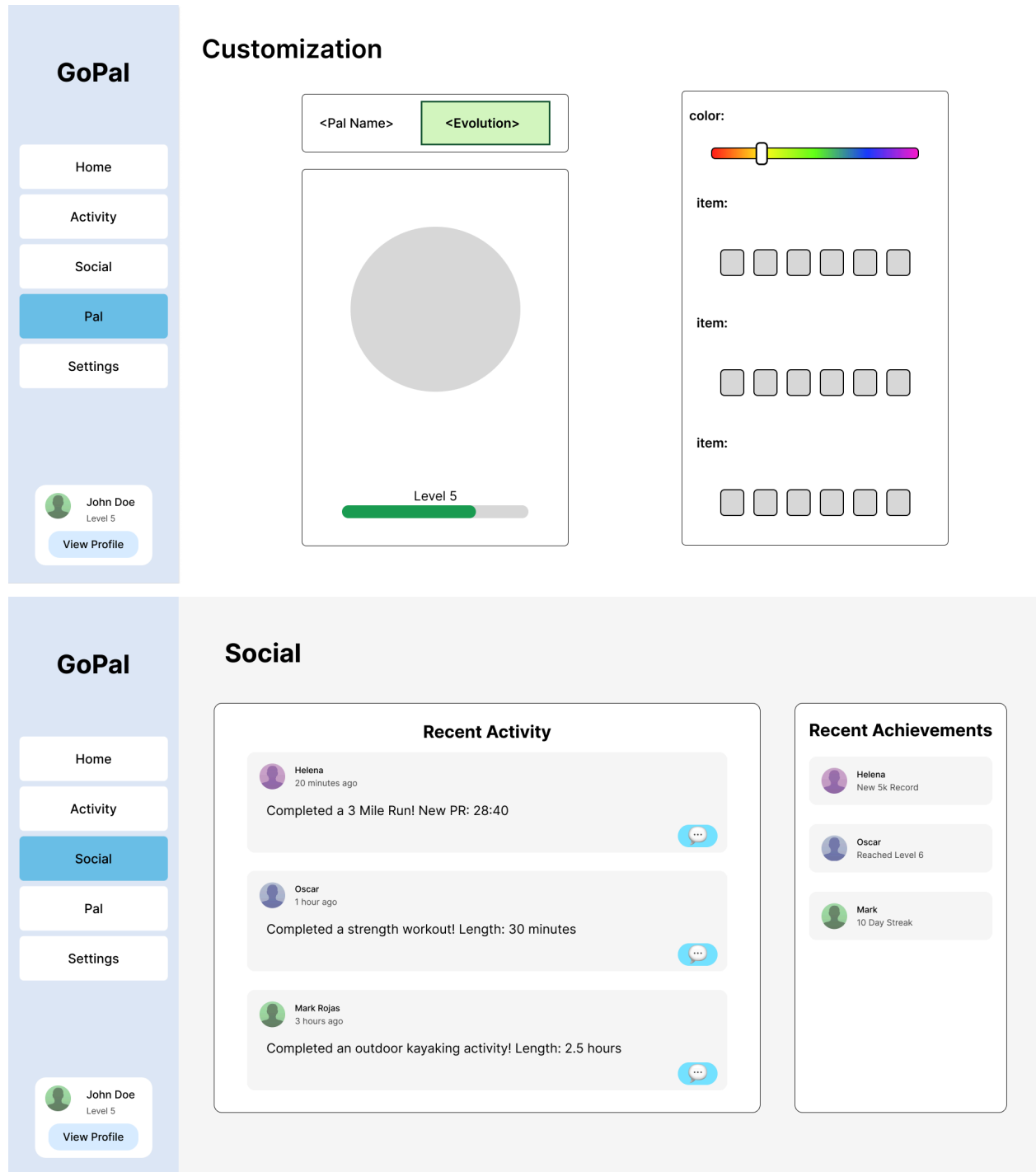
Friday

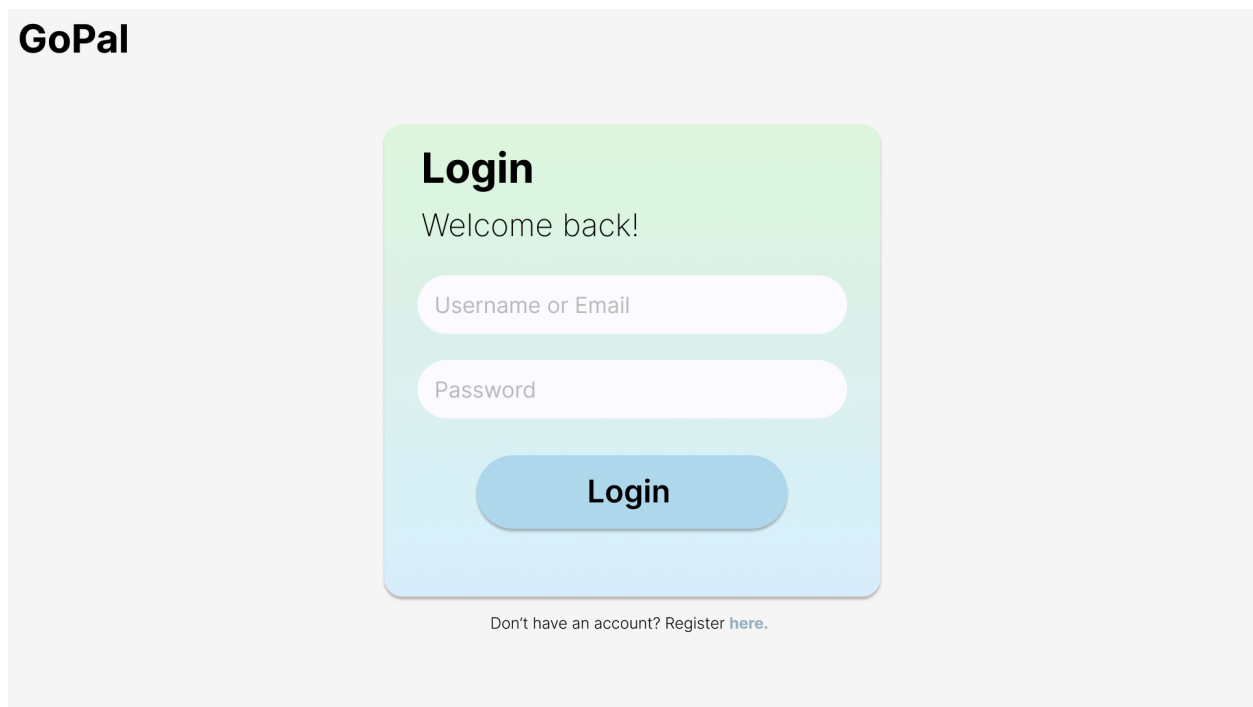
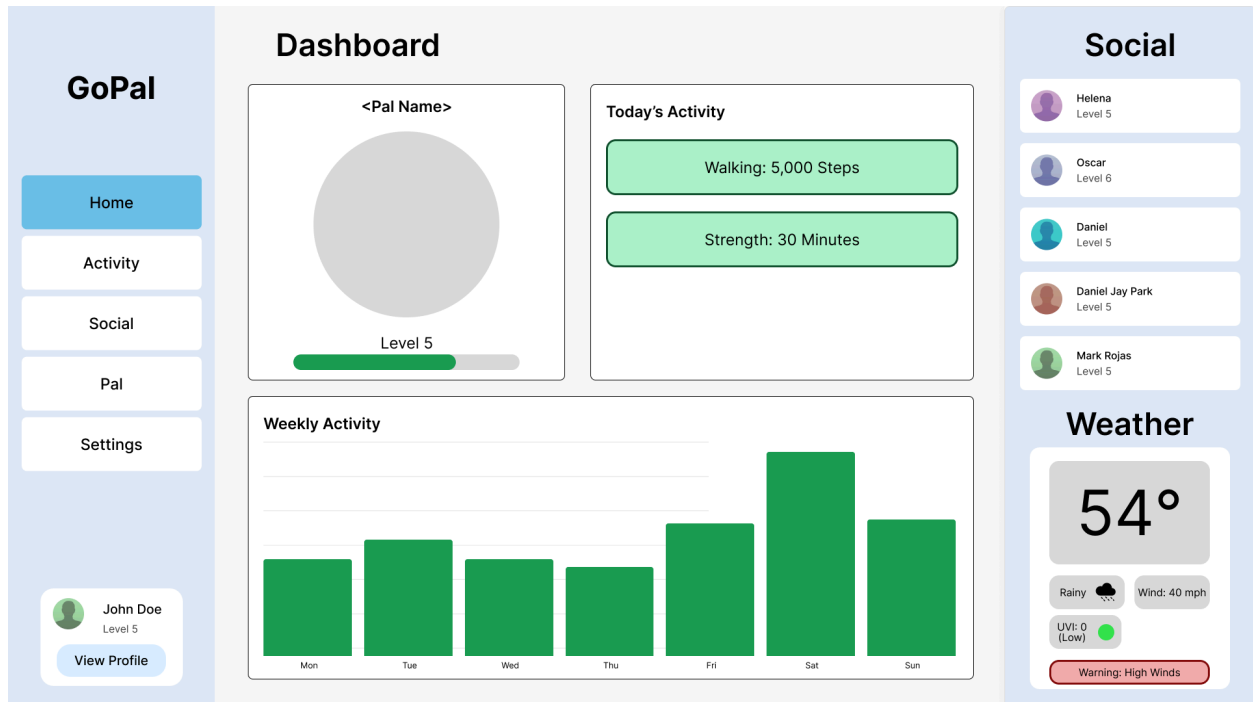
Saturday



Sunday







## APIs:

OpenWeather API - <https://openweathermap.org/api>

Geolocation Web API - [https://developer.mozilla.org/en-US/docs/Web/API/Geolocation\\_API](https://developer.mozilla.org/en-US/docs/Web/API/Geolocation_API)

Strava API - <https://developers.strava.com/docs/getting-started/>

## THE GROWTH PROCESS

Your Tamagotchi can evolve in different stages depending on how you care for it.



[https://tamagotchi.fandom.com/wiki/Tamagotchi\\_Life\\_Cycle](https://tamagotchi.fandom.com/wiki/Tamagotchi_Life_Cycle)

### Original Previous Idea:

Personalized guide for runs/hikes/outdoor exercise. This project would focus on providing unique insight to `enjoyers of the outdoors based on environmental factors that aren't always included in more popular apps.

For example, poor air quality can impact physical performance and leave individual's feeling sick for the next several days, so we could consider implementing a feature that warns athletes when the AQI is bad and suggests modifications/areas with less pollution (for example, "high risk" areas might be places like main roads/highways, so we could suggest alternative routes that avoid these places).

Other possible features might be: Using info from something like Walk Score to determine how pedestrian-friendly certain neighborhoods are, comparing marathon location altitude with current altitude and recommending ways to train for a large difference, and/or using Strava API for more detailed guidance. Ideally this would be useful for walking/biking/hiking/etc, not just running.