



Potty Police

Project Title: Potty Police App for iPhone and Android

Client: Potty Police -Cecile Blair

Preferred Team Size: 4 Students

Work Location: Campus or home

NDA Required: Yes

Background: After selling my doula agency, I've been searching for my next idea. Our Chihuahua/Rat Terrier, Karl—rescued from an abusive home, struggles with consistent indoor marking, a common issue in small and previously abused dogs. He's otherwise a great dog, and this challenge inspired us to create a solution that helps more dogs stay in their homes by improving behavior.

Project Description and Deliverables: If accepted into the Capstone program, we will focus on the development of a smart dog-training collar and will need a companion mobile app designed to address indoor marking. Many dog owners struggle with dogs that urinate or mark inside the home, creating frustration, property damage, and inconsistency in training. The app will provide real-time feedback, location tracking, and an integrated system that helps owners understand when and where their dog is marking.

The proposed system would include a training collar paired with a mobile application that work together to monitor bathroom-related behaviors inside the home. The collar would provide humane, owner-controlled training support through vibration, audio playback using the owner's recorded voice command, and an optional corrective setting. The mobile app would notify the owner when the dog attempts to mark or successfully marks in the home, while also identifying the location where the behavior occurred. This would give owners immediate insight and allow them to respond more consistently and effectively.

In addition to indoor marking detection, the app would include a separate **potty-training mode** designed for puppies or dogs learning proper bathroom habits. In this mode, corrective shock features would be disabled, and the focus would instead be on tracking behavior patterns, sending alerts, and helping owners build a structured house-training routine. The collar in potty training mode will vibrate and use voice commands to correct behavior. The system would also require the collar and app to work together to map the layout of the home so that incidents can be cleaned up quickly.

The app itself would include essential consumer functionality such as a login page, user account management, subscription-based monthly billing, and push notifications related to the dog's bathroom behaviors. The long-term goal of the project is to create a connected training system that combines behavior monitoring, location awareness, and owner guidance into one platform, helping dog owners better manage indoor accidents and improve training outcomes.

Desired skills:

ChatGPT recommendations-

Computer Science / Software Engineering

- Build the mobile app (iOS/Android)
- Login/authentication
- Notifications
- Backend + database
- Subscription payments

Optional: UX/UI Design

- Clean, user-friendly interface
- App flow and dashboard design

Optional: Data/Logic

- Behavior tracking
- Pattern insights and alerts

Minimum team: 2 software developers (+ 1 UX designer optional)