CSC 450 Capstone Project

Milestone 2 Status Report

## Group Members

Elisha Bjerkeset (front end), Kristen Thomas (back end), Carl Fredrickson (database)

## Milestone

2

## Milestone Presentation Date

10/1/2025 – 10/15/25

## Project Manager for Milestone

Kristen Thomas

## Project Name

Pet Adoption Platform

## Project Description

This app will help match pets with adopters. Animal shelters will be able to list pets that are available for adoption, communicate with adopters, and approve or deny adoption applications. Adopters will be able to view available pets, communicate with animal shelters, and submit an adoption application.

## How This Project Meets the Requirements

* **Desktop or Web application (with optional of Android app)**
  + The Pet Adoption Platform will be a web application.
* **User authentication and user management**
  + Animal shelters and adopters will create accounts and log in to use the platform.
* **Messaging (not external email)**
  + Adopters and animal shelter staff will be able to communicate using a messaging feature.
* **User profile, dashboard**
  + Adopters will have a dashboard showing recently viewed pets, animal shelters near them, recent messages, and the status of adoption applications they have submitted.
  + Animal shelters will have a dashboard showing how many views they’ve received, which pets have generated the most interest, recent messages, and pending adoption applications.
* **Some form of transactions between users**
  + Adopters will be able to submit an adoption application.
  + Shelters will be able to review and approve or deny applications.
* **Use of database (at least five tables)** 
  + A relational database will be used with at least 7 tables, including:
    - Pet
    - Image
    - PetImage
    - Profile
    - Conversation
    - Message
    - Application

## Development Tools

* Team communication
  + Slack
* Version Control
  + GitHub
* Front end
  + React
* Back end
  + Next.js
* Database
  + PostgreSQL hosted by Supabase
* Web hosting
  + TBD

## Action Items Completed for Previous Milestones

* [Kristen, Completion Date 9/12] Set up GitHub repository.
* [All, Completion Date 9/15] Create basic application design based on project requirements. See design document for details.
* [Elisha, Completion Date 9/15] Create initial UI design ideas for app, focusing on mobile.
* [All, Completion Date 9/15] Review basic application design and approve or propose changes.
* [All, Completion Date 9/15] Determine main areas of focus for each team member.
* [All, Completion Date 9/16] Choose front end, back end, and database framework for app.
* [Carl, Completion Date 9/20] Design database schema and create Entity Relationship Diagram.
* [Kristen, Completion Date 9/16] Define back-end requirements and architecture.
* [Elisha, Completion Date 9/14] Define UI styling and design components.

## Action Items for This Milestone

* [Elisha, Target Date 9/24] Choose and install front end developer tools.
* [Kristen, Target Date 9/24] Choose and install back-end developer tools.
* [Carl, Target Date 9/24] Choose and install database developer tools.
* [Carl, Target Date 9/24] Create initial database tables and populate with test data. Share database credentials with Kristen.
* [Carl, Target Date 9/28] Creating additional database tables & researching user authentication.
* [Elisha, Target Date 9/28] Outline webpage files needed.
* [Elisha, Target Date 9/28] Adding in React & Next.js to GitHub repository
* [Kristen, Target Date 9/28] Begin skeleton of backend using Next.js
* [Kristen, TBD] Work on search functions for site- shelters
* [Carl, 10/3] Adding database testing & creating support documentation folder
* [Elisha, 10/4] Create login page
* [Kristen, TBD] Implement google maps search API function
* [Elisha, TBD] Creating pets page
* [Carl, TBD] Add images to database & add query to get images by pet
* [Kristen, TBD] Messaging function

## Action Items for Future Milestones

* [Member, Target Date ] Example.

## Notes

*(General project notes, things to keep in mind for later, etc.)*

[*https://developers.google.com/maps/documentation/geocoding/overview*](https://developers.google.com/maps/documentation/geocoding/overview) *(Google geocoding API link)*