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

## Project Timeline

* Week of 10/19 – 10/25
  + Test and finish pet search page
  + Create basic shelter search page
  + Create basic pet detail page
  + Add messaging and adoption application tables to DB
* Week of 10/26 – 11/1
  + Test and finish shelter search page
  + Create basic shelter dashboard page
  + Add messaging to pet detail page
* Week of 11/2 – 11/8
  + Test and finish pet detail page
  + Create basic adopter dashboard page
  + Create basic adoption application page
  + Add messaging to shelter dashboard page
* Week of 11/9 – 11/15
  + Add adoption application review functionality to shelter dashboard page
  + Add messaging to adopter dashboard page
  + Review and update UI/UX as needed on all pages
* Week of 11/16 - 11/22
  + Test and finish shelter dashboard page
  + Add adoption application status information to adopter dashboard page
  + Review and update code comments and documentation
* Week of 11/23 - 11/29
  + Test and finish adopter dashboard page
  + Re-test all pages and resolve any remaining bugs/issues
  + Prepare deployment environment
* Week of 11/30 – 12/6
  + Deploy live website
  + Review and update all project documentation
  + Complete any remaining tasks

## 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 Completed for This Milestone

* [Elisha, Completion Date 9/24] Choose and install front end developer tools.
* [Kristen, Completion Date 9/24] Choose and install back-end developer tools.
* [Carl, Completion Date 9/24] Choose and install database developer tools.
* [Carl, Completion Date 9/24] Create initial database tables and populate with test data. Share database credentials with Kristen.
* [Carl, Completion Date 9/28] Creating additional database tables & researching user authentication.
* [Elisha, Completion Date 9/28] Outline webpage files needed.
* [Elisha, Completion Date 9/28] Adding in React & Next.js to GitHub repository
* [Kristen, Completion Date 9/28] Begin skeleton of backend using Next.js
* [Carl, Completion 10/3] Adding database testing & creating support documentation folder
* [Elisha, Completion 10/4] Create login page
* [Carl, Completion 10/8] Connect login page to Supabase authentication
* [Elisha, Completion 10/10] Create pet search page
* [Carl, Completion 10/13] Add images to pet search page
* [Kristen, Completion 10/19] Implement google maps search API function

## Action Items for This Milestone

* [Kristen, Target TBD] Work on search functions for site- shelters
* [Kristen, Target TBD] Messaging function

## 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)*