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Dog walking app

Web applications with C# project

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Author's Declaration of Originality

I hereby certify that I am the sole author of this project proposal. All the used materials, references to the literature and the work of others have been referred to. This project proposal has not been presented for examination anywhere else.

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1. Introduction

In today's fast-paced world, a considerable number of people own dogs. However, with the rush of modern life, along with unpredictable schedules and occasional fatigue, some may face the challenge of not having enough time to take their four-legged friends for a walk.

The goal of this project is to create a web application connecting dog owners with individuals offering dog walking services. This project comes as a convenient solution for owners who do not have enough time or opportunities for proper and regular walks yet willing to ensure a high standard of living for their pet or to make their pet's life more diverse.

The application will allow dog owners to create profiles and submit walk requests specifying details such as date, time, duration, and their location. Additionally, their profiles will also provide pictures of their dogs, along with description, advice on their dog's behavior, and other helpful information.

At the same time dog walkers will be able to create profile with their pictures, personal information, experience with dogs, and reviews from previous clients. The application will provide a search feature for dog walkers, allowing them to discover active walk requests based on location. Walkers will be able to respond to these requests with personalized walk offers, giving dog owners flexibility to accept or decline. Moreover, the application will have a built-in chat functionality which will facilitate direct communication between owners and walkers.

2. Overview

This chapter outlines the essential features required for the successful implementation of the project.

2.1 First stage

The web application provides two registration options: one as a dog owner and the other as a dog walker. After completing the registration process, dog owners gain access to a range of features, including:

1. **Personal Profile Creation:** Create a personalized profile with details about yourself and your dog/dogs.
2. **Walk Request Creation:** Create walk requests specifying details about the desired walk, along with descriptions and payment information.
3. **Walking Offer Management:** Respond to incoming offers from dog walkers by accepting or rejecting them.
4. **Profile Viewing:** Explore profiles of dog walkers to make informed decisions.
5. **Walk History Tracking:** Monitor both active and completed walks through a dedicated history section.
6. **Integrated Chat Functionality:** Engage in real-time communication with your chosen dog walker through a chat feature associated with each walk.
7. **Feedback System:** Upon completing a walk, dog owners have the opportunity to provide valuable feedback, enhancing the overall experience for both parties involved.

The dog walker gains access to the following features:

1. **Personal Profile Creation:** Create a personalized profile by providing photographs, details about your background, and your experience with dogs. This section will also display reviews from dog owners.
2. **Walk Requests Search:** Explore walk requests available in your preferred location.
3. **Profile Viewing:** Access and review the personal profile of the dog owner.
4. **Offer Submission:** Send dog walking service offers to owners with active walk requests.
5. **Walk History Tracking:** Keep track of both ongoing and completed walks through a dedicated history section.

6. Integrated Chat Functionality: Communicate in real-time with the dog owner through a chat feature associated with each walk.

In the Web Applications with C# course, my primary focus will be on developing the previously mentioned features. The listed features are essential for building a platform that brings together dog owners and dog walkers. However, to make the app complete, more features need to be added.

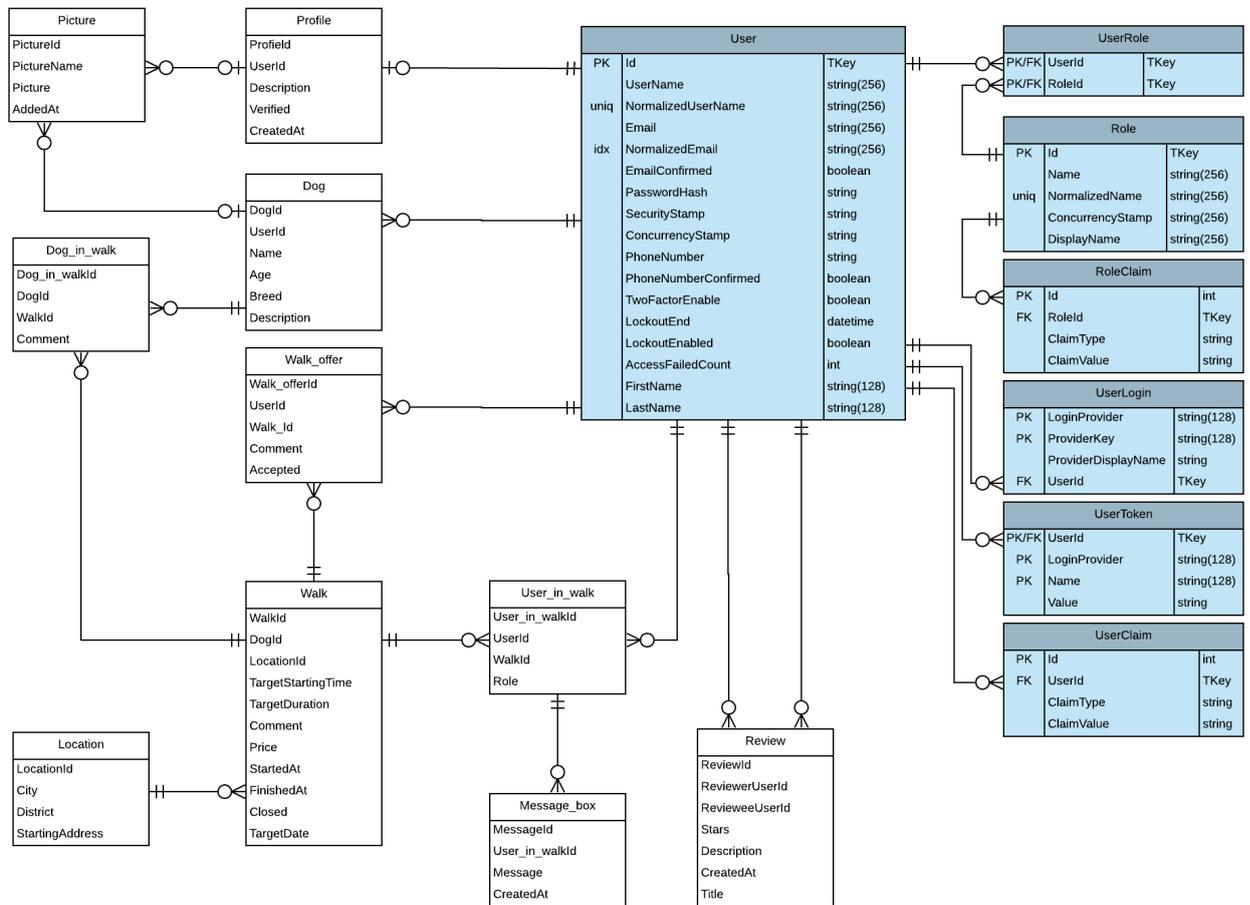
2.2 Further steps

To ensure the app's completeness, the addition of the following features is necessary:

- Dog owners can search for dog walkers using name, location, and rating filters, then send them a personal walk request.
- Owners have the option to save their preferred dog walkers to a personalized favorite list.
- Acquainted dog owners can create joint walks for their pets.
- Walkers have the capability to rate and review owners, and it's visible exclusively to other walkers and the application administration.
- Mandatory verification for dog walkers includes using an ID card or attaching a photo of the document (in regions without electronic identity verification methods).
- The platform offers customer support and a complaint submission feature.
- Administrators have the capability to view user profiles and user activities for enhanced oversight.
- Administrators manually verify newly registered dog walkers.
- Administrators hold the authority to block users and delete profiles as needed.
- Integrated payment system

3. ERD

The following Entity-Relational Diagram represents the database entities required to fulfill the first stage of development. Refer to Section 2.1 for context.



4. Main client positive flow screen sketches

The following sketches represent some pages of the planned web app.

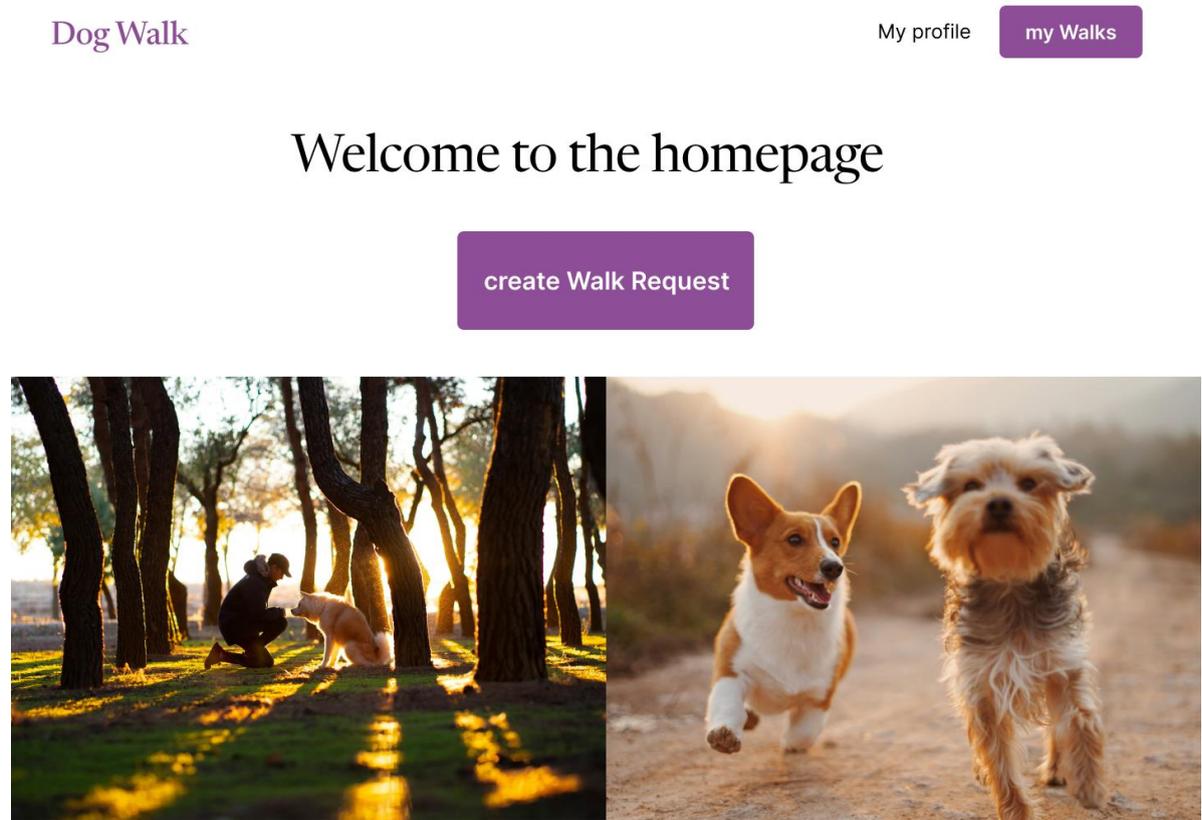


Figure 1. *Home page for dog owners.*

Walks

4 walks

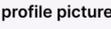
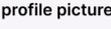
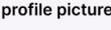
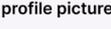
	Walk#12345 Dog walker: Peter Morris Duration: - Date: 25.02.2024	Ongoing walk see more...	
	Walk#12345 Dog walker: Maria Watt Duration: 2h 32min Date: 18.02.2024	20.00 € see more...	
	Walk#11235 Dog walker: Henry Smith Duration: 1h 43min Date: 11.02.2024	13.50€ see more...	
	Walk#10999 Dog walker: Caroline Johns Duration: 3h 26min Date: 22.01.2024	24.00€ see more...	

Figure 2. Walk history page for dog owners

Create your Walk request

Choose your location:

Add dog:

Add description:

Choose time:

Choose duration:

Add the price you are ready to pay:

Figure 3. Page for creating a walk request.

Welcome to the homepage

Type to search a walk

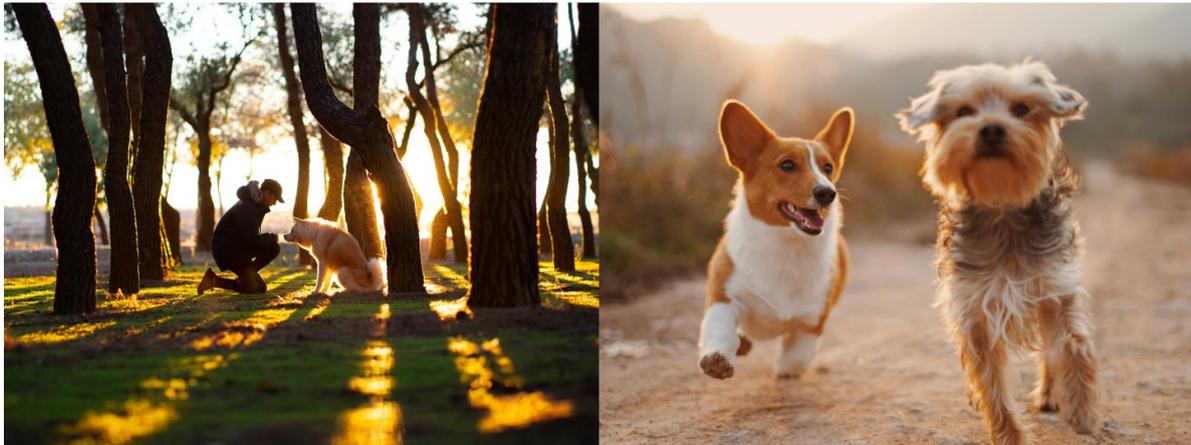


Figure 4. Home page for dog walkers.

Walk requests

42 walk requests in Tallinn

	Walk request from David Dog name: Danny Duration requirement: 1h Description: Hello! I would like ... see more...	payment: 9€	 send offer
	Walk request from Lena Dog name: Chuck Duration requirement: 1h-2h Description: Hi there! My dog is ... see more...	payment: 13€	 send offer
	Walk request from Hanna Dog name: Lucky Duration requirement: 2h-3h Description: Morning! I am willing to ... see more...	payment: 20€	 send offer
	Walk request from Simon Dog name: Momo Duration requirement: 30min Description: Me and Momo are... see more...	payment: 6€	 send offer

Figure 5. Walk requests page for dog walkers.