

# Buck's Dog Training Scheduler

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Client: Lauraine Wright, Buck's Dog Training of Central NJ

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# 1 Introduction

## 1.1 Client Information

1. Client name: Lauraine Wright
2. Client title: Head Trainer
3. Client email address: lauraine@bucksdogtraining.com
4. Client employer: Lauraine Wright
5. How you know the client: Buck's Dog Training is a small business located by Emma's hometown.

## 1.2 Overview

This project is a custom website for Buck's Dog Training of Central NJ, designed to improve upon their current Embr AI site to better serve their clients' needs. While their existing website contains information about the company and services for a general audience, scheduling is done manually over phone or email, and it lacks personalized features for current clients. To address this, the new website will implement unique features for employees and customers. Customers can sign up for an account which allows them to schedule appointments and gives them access to client-centric features like their appointment history and reports on their individual dogs' training progress. All of this displayed information will change depending on the logged-in account. This approach will allow for a more streamlined and personal experience with the site.

The main purpose of this project is to provide the clients and employees of Buck's Dog Training a user-friendly website tailored to the individual logged-in client. Appointment scheduling allows clients to book sessions directly on the website, and appointment history and progress offer insights for the client. The website will also include personable features for all website visitors, like information on their services, photo galleries, a mission statement, and pages for each trainer on the website. The proposed features for the new app will help foster a sense of community for current and prospective clients and create a personalized experience to strengthen client relationships.

Employees will have privileges with admin accounts to set valid appointment times for customers to choose from, add to the photo galleries, edit their personal subpage, and edit dogs' progress reports.

## 1.3 Key Features

Some key features of the project are:

- Appointment scheduling for customers with accounts, including creating appointments and deleting appointments
- Trainers can manage content like open appointment times, photo galleries, personal pages, and dogs' reports through admin accounts

- Viewable Appointment History/Future Appointments by Dog Name for each customer's account
- Viewable Dog Training Progress Reports after each appointment
- Automatic Responses to Client Inquiries like appointment creations, appointment reminders, or general questions
- Services information, photo galleries, mission statements, and trainer pages viewable for all website viewers.

## 1.4 Why this Project is Interesting

This project stands out as a capstone because it has real-world impact for a small business and its clients, allowing them to communicate and operate more efficiently while also keeping a sense of community. Dog training is engaging, and this project will help make that service more accessible and user-friendly.

This project is enticing because it contributes to a service that directly supports people and their pets, and it involves a feature-rich backend for both employees and clients and requires an aesthetic front end to effectively share the company's mission and services.

This project impacts the daily-life of the employees and clients of Buck's Dog Training. The features are useful to make the roles of both easier.

## 1.5 Areas of CS required

The relevant fields of computer science for this project are: Web development, Database management, and Security.

## 2 Requirements

### 2.1 User Roles

#### 2.1.1 Admin

Has all the functionality of the trainers and can CRUD trainer and user accounts as well as directly edit the website.

#### 2.1.2 Trainer

Can make appointments, change their schedule, write trainer reports, and edit their personal page / bio.

#### 2.1.3 User

Can view trainers and their bios, see their dogs schedule, and contact an administrator to book an appointment.

#### 2.1.4 Site Visitor

Can view the site and see trainers and their bios but cannot view their schedule as they do not have an account. Can make an account. Can contact an administrator to book an appointment

## 2.2 Functional Requirement User Stories

ID	Story Title	Points	Description
1	Register	2	As a site visitor, I want to create an account so that I can keep track of my scheduled appointments.
2	Log in / Log out	1	As a user, I want to log in and out of my account so that I can access my appointment information.
3	CRUD users	8	As an admin, I want to CRUD users of the site so that I can edit them.
4	CRUD trainer	8	As an admin, I want to CRUD trainers so that I can edit them.
5	Reset Password	2	As a user, I want to reset my password so that I can access my account if I forget login info.
6	CRUD services offered	8	As an admin, I want to CRUD the services we offer so that I can edit them if they change.
7	Set open appointment times	3	As a trainer, I want to set available appointment slots so that I can book appointments.
8	Block out unavailable times	2	As a trainer, I want to block out my unavailable times so that other trainers know when I'm not working.
9	CRUD appointments	8	As an admin, I want to CRUD all scheduled appointments so that I can make changes if necessary.
10	Filter all appointments by date	1	As an admin, I want to filter all appointments by date so that I can know a schedule for a certain day.
11	Filter all appointments by dog	1	As an admin, I want to filter all appointments by dog name so that I can see a dog's history with the company.
12	CRUD trainer info page	8	As an admin, I want to CRUD the trainer info page so that customers can see a list of up-to-date trainers.
13	CRUD dog	8	As an admin, I want to CRUD dogs so that I can link multiple dogs to one account.
14	Appointment confirmation	1	As a user, I want to receive appointment confirmations when my appointment is created so that I can confirm it was made.
15	Appointment reminder	1	As a user, I want to receive appointment reminders so that I don't forget about my appointment.
16	View past/future scheduled appointments	2	As a user, I want to view my past and future appointments so that I can see everything I scheduled.
17	Search appointments by dog	1	As a user, I want to filter my appointments by dog name so that I can stay organized with multiple dogs.
18	Create training report	2	As a trainer, I want to create training progress reports so that customers can see progress.
19	Delete training report	2	As a trainer, I want to delete training progress reports so that I can fix any mistakes.

20	View training report	2	As a user, I want to view my dog's training report so that I can see their progress.
21	Upload to gallery	2	As an admin, I want to upload photos to a gallery so that site visitors can see them.
22	Remove from gallery	2	As an admin, I want to remove a photo from the gallery so that I can fix any mistakes.
23	Browse gallery	2	As a site visitor, I want to browse the photo gallery so that I can see examples of dogs that were trained.
24	View mission statement	1	As a site visitor, I want to view the mission statement so that I can see the company's values.
25	Contact trainer	1	As a site visitor, I want to contact a trainer so that I can ask any general inquiries.

## 2.3 Non-Functional Requirements

ID	NFR Title	Category	Description
1	Window size compatibility	Portability	Site should be usable on different window sizes
2	Password security	Security	Create account should encourage strong password
3	Admin and trainer permissions	Security	Only the admin and trainer has access to edit the site
4	Social media links	Usability	Social media links should be visible and clickable
5	Include company logo	Usability	Company logo should be visible throughout site pages
6	Blue color theme	Usability	Site should have a blue color theme to match the logo

## 3 Iterations

### 3.1 Iteration 1 Feb. 12

#### 3.1.1 Plan

Planned User Stories	Points
S1: Register	2
S2: Log in/Logout	1
S3: CRUD users	8
S4: CRUD trainer	8
S5: Reset password	2
Total points planned:	21



**3.1.2 Activities****3.1.3 Retrospective****3.2 Iteration 2 Feb. 26****3.2.1 Plan**

Planned User Stories	Points
S6: CRUD services offered	8
S7: Set open appointment times	3
S8: Block out unavailable times	2
S9: CRUD Appointments	8
Total points planned:	21

**3.2.2 Activities****3.2.3 Retrospective****3.3 Iteration 3 March 19****3.3.1 Plan**

Planned User Stories	Points
S10: Filter all appointments by date	1
S11: Filter all appointments by dog	1
S12: CRUD trainer info page	8
S13: CRUD Dog	8
S14: Appointment confirmation	1
S15: Appointment reminder	1
Total points planned:	20

**3.3.2 Activities****3.3.3 Retrospective****3.4 Iteration 4 April 2****3.4.1 Plan****3.4.2 Activities****3.4.3 Retrospective**

Planned User Stories	Points
S16: View past/future scheduled appointments	2
S17: Search appointments by dog	1
S18: Create training report	2
S19: Delete training report	2
S20: View training report	2
Total points planned:	9

Planned User Stories	Points
S21: Upload to gallery	2
S22: Remove from gallery	2
S23: Browse gallery	2
S24: View mission statement	1
S25: Contact trainer	1
Total points planned:	8

### 3.5 Iteration 5 April 16

#### 3.5.1 Plan

#### 3.5.2 Activities

#### 3.5.3 Retrospective

## 4 Final System Architecture and Design

[[ Explain the architecture layering, perhaps include some UML, and mention the technologies used.

Remember a picture is worth a thousand words! ]]

## 5 Testing

[[ include test plan and coverage data

Briefly describe how you incorporated testing into each two week coding iteration. What tool(s) proved useful? What went well in terms of testing? What did not?

]]

## 6 Reflections on the Project

## 7 References

### References