Software Engineering and Testing

Assessment 1: Project Proposal

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Declaration

I hereby certify that this material, which I now submit for assessment on the program of study leading to the award of Ordinary Degree in Computing in the Institute of Technology Blanchardstown, is entirely my own work except where otherwise stated.

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Title
Stressfree Pets

Introduction
During the pandemic many people decided to get pets to help cope with the times. Now the world is returning to normal these people have to juggle pet care and work life balance. Using tools we will create a system to help them better balance these aspects.

Motivation
many people who got these pets are now wanting to travel and need to board their pet.

People are now returning to the office, so they need extra care for the animals while there are working so they don't have to worry about them while at work .

These animals need care and attention, so the service is needed.

Goals
- Client wants a website for their local pet minding business
- Web front where user can create profiles either as a consumer or a business
- Business can apply to be featured on the website
- Consumers can post reviews
- Administrators can control user and business accounts
- Consumer can book sitting/ walking / dog daycare service

Client
Stressfree pets was originally a social media page which now wants a fully usable web application to manage the business and attract new people.

The Project
The project definition:

- What is the project?
    - To create a web application that will automate the client's business
- What will the end product do?
    - A dog sitting/ minding business where users can create profiles and book services
- What are the main components of the software system?
    - Profile creation
    - Booking system

- o   Business vetting system
- o   Payment system / invoicing
- • How will it be used?
  - o   Consumers will be able to book their pet into a service
  - o   Consumer will be able to pay for the service
  - o   Business can apply to be on the website
  - o   Business can invoice consumers
  - o   Administrator will be able to add or remove user profiles

Project Value and Benefits

Client has better management system where service is categorized and can be tracked.

Consumer has trust in system as business are vetted before there profile is live.

Business can use the site to generate business for themselves and keep track of their clients.

Administrators will vet business that want to be on the site. They will also be able to add or remove profiles

Technical Requirements

To manage the content we need a system that can store data which can be changed. We also need the site to look professional and have functionality. The site will be easy to navigate to make it more attractive to consumers.

To achieve this we need a general purposing scripting language such as PHP and CSS for the display of the website. For storing data we will use a structured query language such as MySQL. For hosting the site we will need a hosting service such as laragon.

We will use inheritance by having a general user and have the consumer, business and administration users inherit properties from the general user such as name.

We will use PHP, HMTL and CSS for the front end development as they are the most used languages that are standard practice in the industry. For the database we will use MySQL as it is compatible with PHP. We will use Laragon for hosting the site as the various aspect can integrated into one.

For the development of the site we will follow the agile methodology wherein we will revise the product as we are developing it.

Testing will be done at all stages of development to ensure functionality across all aspects of the site. We will also ensure to follow the Do not repeat yourself(DRY) philosophy with our code.