

**Software Engineering and Testing. BSC Year 2, 2020/2021**

**(Assignment 2 - 20%)**

**Assessment 2: Requirements Document**

**Submitted by: Names, Student numbers**

**Submission date**

**Declaration**

I hereby certify that this material, which I now submit for assessment on the programme 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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**Table of Contents**

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# Title

Stressfree Pets

# Client

This project is a web system for a pet care, dog-walking and dog sitting business. The reason for the project is a local business Stressfree Pets has been using social media such as Facebook and Instagram for their business and would like to have a system to manage bookings and grow the business.

# Project Overview (1 paragraph)

The website will have many functions, these include booking, public feedback, and user profiles. People who would like to do one of the services can create a public profile with some information about themselves, like the type of service they would like to provide or their rating from other consumers. Consumers will be able to book the service they need, see profiles of the service providers and leave feedback for the service. Each of these will have different privileges on the site with the owner being the head administrator on the site. We will use PHP programming, HTML and CSS to develop dynamic and interactive webpages. We will also be using a database language such as MySql in order to handle the data on the site and store data. We believe with these we will be able to build a front-end web system to meet the client’s needs of their business.

# Document Revision

Rev. 1.0 date – initial version

# Scope (max 1/2 page)

**Overview:**

The project will implement an online dog grooming services for a local business owner, aiming to introduce a more efficient and organised system, automating various aspects of the business, and replacing some paper-based work. We will develop a user-friendly website to facilitate online dog grooming services, implement an efficient online booking system and help people to find a dog minder. This is expected to increase revenue by expanding service accessibility.

***Functionalities:***

* *Secure & Efficient User Sign In:* Clients will experience a secure registration and sign in process and access grooming services from the comfort of their homes.
* *Enhanced Client Interaction:* The website will provide clients with a seamless and interactive experience, allowing them to easily schedule grooming appointments, display available services, pricing, and manage user profiles.
* *Transparent Communication:* A notification system will keep clients informed about appointment confirmations, updates, and relevant announcements.
* *Online Booking System*: Clients can efficiently schedule grooming appointments through an easy-to-use online booking system and pay online.
* *User Profiles*: Clients will have personalized user profiles showcasing their provided services, preferences, and service history.

**Non-Functional Requirements:**

* *Technologies:* The website will be developed using PHP combined with CSS and HTML as the primary programming languages.
* *Architecture:* The system will have a database that will be designed according to needs of the website and will be created in MySQL workbench.
* *Platform Compatibility:* The website will be designed to be compatible with commonly used web browsers and adopt to devices of users.

**Assumptions** are made that customers will have access to a stable internet connection. Where **potential risks** involve customers feeling unsure about the change from in-person to online grooming. **To tackle this**, we plan to have a clear communication strategy to guide customers through the online booking process.

**Areas for future Improvement:** In the future, we aim to continually assess our clients preferences and explore the possibility of introducing additional features, such as personalized recommendations.

Looking forward, we aim to continually improve by monitoring industry trends, gathering user feedback, and adapting to client preferences. This guarantees an upgraded online dog grooming experience, supporting ongoing success and growth of the business.

**4. Walkthrough Scenarios**

**Admin:**

* Will be able to see all profiles and add or remove them.
* Will be able to access the database.

**User:**

* Will be able to view the website and see the services available before booking.
* Need to create an account.
* Will be able to book any service they want after they create an account.
* Will be able to review.
* Will be able to add any information they want about them or their pet.

**People who are working in the services:**

* They will need to have an account.
* Will be able to add any information about them.
* Will be able to contact consumers.
* Will be able to see all the booking appointments.

**5. Software Requirements Analysis:**

***Functional Requirements:***

These are statements of services the system should provide – how the system should react to particular inputs and how it should behave in particular situations. Explicitly state what the system should do. Every major scenario should be represented by a use case. Diagrams are encouraged. UML Use case diagrams, Use case specifications (as legible screen dumps, typed listings or activity diagrams)

Can approach them from a *user* and *system* point of view.

*User* – high level abstract requirements, readable by someone with no detailed technical knowledge.

*System* – detailed description of what the system should do. Targeted at technical staff and project managers…

e.g.

# 6.1 User Requirements

**CONSUMER**

They have to be able to view basic information about the business without having to log into their profile.

They have to be able to sign into their account which the system will then authenticate and bring up their profile

They should be able to create a profile and have the system store this data

They should be able to view any invoices for services they have booked and pay them

When signed in they should be able to book a service and also review a business.

**BUSINESS**

They should be able to apply to have their business on the website

Once they have been approve they can set up services that they offer by loging in

They can create a timetable of availability for consumers to use to book themselves in.

They should be able to see these booking and invoice the customers

They should be able to look at reviews

**ADMINISTRATOR**

They should be able to add or delete profiles

They should be able to view businesses applications and decide if they suitable for the website

**SYSTEM**

The system should have a database of profiles which can be changed using CRUD

The system should be able to only allow people that are logged in to view the services in more detail and book

The system should be able to authenticate the logging in of users

The system should only allow administrators to have access to all areas of the system

The system should be able to store reviews given by consumers and link them to the business being reviewed.

The system should have a search function to make it easier to look up services

**6.2 System Requirements**

6.2.1 Use cases

A screenshot of a computer screen

Description automatically generated

6.2.2 Use Case Specification:

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Description automatically generated

6.2.3 Activity Diagrams:

A screen shot of a computer

Description automatically generated

# 6.3 Non-functional Requirements:

These are constraints on the service or functions offered by the system e.g. timing constraints

# 7. Graphical User Interface Design

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Description automatically generated

Above is the main design of our page. This is the homepage, but the rest will follow a similar design while changing the content. The image in the top left will be our logo. The three images in the middle are going to be pictures of the services we provide and the three at the bottom right are going to be links to social media pages. We wanted to keep it simple, but functional and eye catching.

# 8. Technical Requirements and Feasibility:

System models – UML

Development language – Java

Persistent storage – database?

Interface & Software / Hardware APIs

## 9. Conclusion (1-2 paragraphs)

Your conclusions and recommendations (feasibility of the proposed project)

We believe that this system will be achievable in the time given to deliver it. We are already confident in the design of the GUI and our use case diagrams give us a clear picture of actors and use cases in the system. The languages needed (HTML, CSS, PHP, MySQL) have been studied by us and we have a general idea on what to do to implement all of our ideas. We believe the system we are creating will meet the clients needs in terms of visibility, consistency, and simplicity.

As we go along all aspects of the site will be thoroughly tested for any issues and errors and to spot any potential problems that could arise before the website is launched. We have a clear vision of what we need to achieve in the time given, which will be achievable due to the research and discussion that went into this document. We are all clear in our objectives and will meet multiple times weekly to check in with our progress.

Additional sections: Table of Contents, executive summary, Index

Checklist: Is your document complete and correct?

*Content:*

* Do the requirements state the customers’ needs
* Are you satisfied with all parts of the document
* Do you believe all parts are possible to implement
* Is each part of the document in agreement with all other parts
* Do the requirements avoid specifying a solution
* Do the requirements avoid specifying a design

*Completeness*:

* Are all the necessary interfaces specified – this includes input and output
* Are the specifications precise enough
* Are all sections from the document template included – if changed, why?

*Clarity*:

* Are all requirements reasonable?
* Is the level of details for each requirements appropriate?
* Are the requirements written in a language appropriate to the reader?
* Are all items clear and unambiguous?