

**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 herby 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.

Author: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Dated: \_\_\_\_\_\_\_\_\_\_\_\_\_

Author: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Dated: \_\_\_\_\_\_\_\_\_\_\_\_\_

**Table of Contents**

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# Title

# Client

# Project Overview (1 paragraph)

The project definition:

* what is the project,
* what the software will do.
* the main components of the software system,
* how will it be used

# Document Revision

Rev. 1.0 date – initial version

# Scope (max 1/2 page)

The functionality the project/software will **include** and **exclude –** required**,** desirable**,** optional**.**

Scope & Functionality of the project should be clear so that client and developer have same expectations…

1. **Walkthrough Scenarios**

Who is going to use/interact with the software /system and how will they use it.

e.g. for vending machine user and serviceman…

1. **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.

# 5.1 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

# 5.2 System Requirements

5.2.1 Use Cases

A screenshot of a computer screen

Description automatically generatedA screenshot of a computer screen

Description automatically generatedA screen shot of a computer

Description automatically generated

5.2.2 Use Case Specification

5.2.3 Activity Diagrams

# 5.3 Non-functional Requirements:

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

# Graphical User Interface Design

# Technical Requirements and Feasibility:

System models – UML

Development language – Java

Persistent storage – database?

Interface & Software / Hardware APIs

## Conclusion (1-2 paragraphs)

Your conclusions and recommendations (feasibility of the proposed project)

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?