

School of Computing and Mathematics

PRCO303

Final Stage Computing Project

BSc (Hons) Software Engineering

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Project Plante

2020/2021

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# Introduction

## About Us

Students often dive in, on the apparent assumption that their reader already knows everything about their project: they don’t! Take the time to ease the reader in gently setting the context in very general terms. Who is the Client[[1]](#footnote-1)? What is the nature of their “business” and (in general terms) what is their motivation/business (Anon., 2017)?

## Introduction

Planting is something we should encourage our society to do. Plant diseases are a common problem for anyone who loves to plant. especially if they are not experienced in gardening they don't know how to identify or what to do when they are having plant diseases.

how to identify plant diseases using computer vision and help inexperienced people to overcome plant diseases through mobile and web application development.

## Background

The service.

# Business Case

## Business Need

Currently queries.

### Underlaying Problem

The business need defines the underlying problem that the Client is facing, and which presumably is motivating their desire for change.

## Business Objectives

To modernize the customer service processes and systems in a way that

* removes the need for staff to employ manual work-arounds
* effectively connects front-desk reception, bookings, facilities and housekeeping
* effectively allows the aggregation of customer information (including telephone calls)
* improves the efficiency and accuracy of key customer-facing interactions
* allows customer bookings to take place in person, or via phone, email or web

# Project Objectives

1. To analyze existing customer service processes and procedures and provide recommendations for improvement
2. To analyze user requirements for the new Hotel Information system in line with the new processes and procedures
3. To analyze potential development technologies and deployment solutions
4. To implement the new Hotel Information system in line with new processes and procedures.
5. To provide interoperability between the new Hotel Information system, and the

existing telephone system

# Chapter 4: Initial Scope

1. Business processes (and their shortcomings) will be identified by interview and observation, and (possibly) documented using UML activity diagrams.
2. The proposed system will allow
   1. customers to book rooms in person, via the phone, email or the web, and to amend these reservation details as required
   2. hotel staff to view customer, booking, and room information
   3. hotel reception staff to process check-in, check-out, and to record updated status information about rooms
   4. staff within hotel facilities (e.g., the restaurant) to enter service charges directly into the Hotel information system
   5. interoperability with the existing telephone information system, in particular being able to extract call charge information at check-out
   6. security, legal and usability issues will be key quality criteria
3. User requirements will be elicited using interviews, observation, and the development of user stories. User requirements will be expressed primarily in text.
4. The more complex user requirements will be elaborated into detailed system requirements8 either using text, use case descriptions and/or a use case realization. A class diagram will be produced. State machines will be developed (only) for those classes with significant state dependent behavior.
5. The existing telephone system will remain unchanged.

# Method of Approach

Software development will employ an incremental approach, with three increments focussing upon (i) customer facing functionality; (ii) internal communications (between front-desk, booking, facilities and housekeeping); and (iii) interoperability with the existing telephone system. Possible technologies are ASP.Net/SQLServer or PHP/MySQL, although a full evaluation will take place during the project. (Anon., 2017)



Figure 1. A diagram that can explain your project

# Project Plan

## Control Plan

The following PRINCE2 control techniques will be employed: end-Stage reports; end-Stage review (with supervisor); fortnightly Highlight report12; risk management (see Section 7); communication plan (see Section 6.2), and quality plan (see Section 8).

## Communication plan

In addition to ad-hoc supervisor meetings as necessary, planned review/feedback meetings will be held at the end of each stage in order to discuss the end-Stage report, the next Stage plan, and to review any technical deliverables produced during the stage. Feedback meetings will also be held following the submission of the two Interim reports.

|  |  |  |
| --- | --- | --- |
| **6. Project plan** | | |
| **Stage** | **Deadline** | **Products/Deliverables/Outcome** |
| 1.Initiation | 11/11 | PID |
| 2.Investigation and requirements |  |  |
| 3.High level design |  |  |
| 4.Increment1 |  |  |
| 5.Increment2 |  |  |
| 6.Increment3 |  |  |
| 7.testing |  |  |
| 8.final report | 31/3 | PRCO303 Report |

Table 1. Stage 1 Plan

|  |  |  |
| --- | --- | --- |
| **Stage 2 plan** | | |
| **Stage** | **Deadline** | **Products/Deliverables/Outcome** |
| 1.Initiation | 11/11 | PID |
| 2.Investigation and requirements |  |  |
| 3.High level design |  |  |
| 7.testing |  |  |
| 8.final report | 31/3 | PRCO303 Report |

Table 2. Stage 2 Plan

# Initial Risk List

What can go wrong and what management strategies are you adopting now to deal with these.

|  |  |
| --- | --- |
| **7.Initial risk list** | |
| **Risk** | **Management strategy** |
| The difficulty of finding image datasets | use plant disease datasets currently available on the internet |
| The difficulty of learning and integration issues | creating the skeleton of the system as a prototype as the first stage |
| Schedule overrun |  |
| Difficulty learning |  |
| Technology failure |  |
|  |  |
|  |  |
|  |  |
|  |  |

Table 3. Initial Risk List

# Initial Quality Plan

What quality checks are you going to apply to your products, and when?

|  |  |
| --- | --- |
| **7.Initial quality plan** | |
| **Quality check** | **Strategy** |
|  |  |
| Requirements |  |
| Design validation |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Table 4. Quality Plan

# References

Wetland, J., 2018. *projectmanager.com.* [Online]   
Available at: https://www.projectmanager.com/blog/triple-constraint-project-management-time-scope-cost  
[Accessed 2020].

1. The client is the organisation or individual who is funding the project! [↑](#footnote-ref-1)