

Emotional Recognition

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DL836 BSc (Hons) in Creative Computing

Abstract

The purpose of the abstract is to give the reader of the report a concise overview of the project.

Put the following into a single paragraph of not more than half a page.

The aim of this project was to construct a system which …

The rationale for the application. Background.

The purpose of the application is to enable xxx.

The steps involved in the development of the system were ...

Testing was carried out throughout and after implementation. Results from the testing show ...

Further work that could be carried out include xxx, as well as xxx.

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Ireland, Dublin

Conor P. Weldon January 2023

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|  |
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# Introduction (1½ pages)

Look at Project Guidelines document

Overall aim

Application area

Technologies

Laravel

Vue

Unity

Android

Project management

Team work

Tools

Trello

GitHub

Journal

Requirements

Design

Implementation

Testing

# Research

My Research Goes here!

# Requirements

## Introduction

The purpose of the requirements phase is to allow for developers to work out what the application should be able to do. It is important to understand what the users would like the application to do rather than the developer deciding what is required.

You can write a bit about your project area. Each paragraph has a blank line between it and the previous paragraph

## Requirements gathering

### Similar applications

Look at and document three similar applications. Be sure to include the following for each:

* Screen shots
* Descriptions
* Advantages
* Disadvantages

### Interviews

Conduct interviews with 3 or 4 users to find out what the important features for them for the app are. There may be various issues that arise in multiple interviews. These can be grouped together into a number of themes.

### Survey

You can create a questionnaire and use the results of the questionnaire as a basis for finding out requirements.

## Requirements modelling

### Personas

These are fictional characters to help the developer understand the users’ needs. They also help identify who the relevant users are.

### Functional requirements

Create a numbered list of what the application should be able to do. Start with the most important feature.

### Non-functional requirements

These are requirements which if not met do not stop the application from working, but which mean that the application is not working as well as it should. They are usually based on issues such as:

* Usability
* Performance
* Security

### Use Case Diagrams

Consists of actors and use cases. You should document each individual use case.

## Feasibility

This section describes which technologies are planned to be used in the development of the application. It then explains if there are any issues in terms of the technical feasibility of the project, for example, if there are two different types of software which may have compatibility issues.

## Conclusion

Write a couple of paragraphs summing up the chapter. Explain what area your project is about. Describe what the chapter has discussed.

# Design

## Introduction

This chapter describes the design of the application. The purpose of the design phase of the project is to allow for developers to arrive at a design for the application so that the application meets the requirements for the application as set out in the Requirements chapter.

The design of an application is usually divided into:

1. Program Design
2. User Interface Design.

The application for this project is … describe your application here.

## Program Design

The program design refers to the design required to make the task of programming and coding of the application more straightforward.

### Technologies

The technologies being used to create this application are:

* Which ever technologies you are using

These technologies were chosen because … Write a paragraph here.

Other possible technologies which could have been used were …. These technologies were not suitable because of … They are more suited to …

### Structure of Laravel/Unity/Android (2 pages)

Describe the structure of whichever technology you are using, for instance the various folders inside of Laravel, the use of routes controllers and views. Include diagrams.

### Design Patterns

This may apply to your project. For instance, Laravel is based on the Model View Controller (MVC) Design pattern.

### Application architecture (1 page)

Include a labelled block diagram of the application.

### Database design

Include an Entity Relationship Diagram (ERD) and a diagram giving the structure of each table.

### Process design

There are a number of techniques which can be used to aid the coding of an application. The following diagramming techniques are some of the ones which could be useful. Discuss with your supervisor what is appropriate for your project.

* Class diagrams
* Sequence diagrams
* Flow charts
* Pseudocode

## User interface design

This section describes how the interface is designed. The section will differ depending on whether an app or a game is being developed.

### Wireframe

A wireframe shows the content and functionality for the layout of a page. A wireframe usually does not look at typography or colour.

### User Flow Diagram

This shows how the user will navigate from one page to another page within the application.

### Style guide

This shows the colours, typography and layout for a single page. Often the theme for this page will be used for all pages in the app. Within this section, explain which colour scheme is being used and why that colour scheme has been chosen and also which fonts are being used and why they have been chosen. This section also covers grids and spacing.

### Storyboard

This will be required for any games being developed.

### Level Design

This will be required for any games being developed. Shows how to go from one to another level.

### Environment

This will be required for any games being developed. Shows the environment in which the game is played.

## Conclusion

Write a couple of paragraphs summing up the chapter. Explain what area your project is about. Describe what the chapter has discussed.

# Implementation

## Introduction

This chapter describes the implementation for the application. The application has been developed using the following technologies (for example):

* Laravel

Laravel is an open-source PHP web framework, which allows for the development of web applications using the Model View Controller (MVC) design pattern.

* Vue

Piece about Vue

* Bootstrap

Description of Bootstrap

The application for this project is … describe your application here.

## Implementation Roles

Describe the parts of the implementation for which you were responsible and the parts of the implementation for which your project partner were responsible.

## Scrum Methodology

The Scrum methodology was used for the implementation phase of this project. Write 3 or 4 paragraphs on SCRUM methodology. Include a diagram. Reference your work

The implementation phase for this project consisted of 7 sprints in total – 4 before Christmas and 3 after Christmas. Each sprint took place over a period of 2 weeks.

The requirements for the application were listed in a product backlog. Each item on the product backlog was broken down into a series of tasks which formed a sprint.

## Development environment

Describe your IDE.

Explain how you used Git.

## Sprint 1

### Goal

Describe which items on the product backlog form the tasks to be completed for this sprint.

### Item 1

Describe the functionality required for Item 1.

Use screen shots to show the implementation of item 1.

**With your screen shots, you should be able to change the colour scheme in your Development Environment to black on white instead of white on black. It’s more readable and means you don’t need a whole load of black ink.**

Insert code snippets.

Explain each code snippet.

Describe any coding difficulties and how those coding difficulties were resolved.

### Item 2

The same as Item 1.

Keep going for as many Items as you have for Sprint 1.

## Sprint 2

### Goal

Describe which items on the product backlog form the tasks to be completed for this sprint.

### Item 1

Describe the functionality required for Item 1.

Use screen shots to show the implementation of item 1.

Insert code snippets

Explain each code snippet.

Describe any coding difficulties and how those coding difficulties were resolved.

### Item 2

The same as Item 1.

Keep going for as many Items as you have for Sprint 1.

## Sprint 3

## Sprint 4

## Sprint 5

## Sprint 6

## Sprint 7

## Sprint 8

## Sprint 9

## Conclusion

Write a couple of paragraphs summing up the chapter. Explain what area your project is about. Describe what the chapter has discussed.

# Testing

## Introduction

This chapter describes the testing that has been undertaken for the application. This chapter is presented in two sections:

1. Functional Testing
2. User Testing

Functional testing is a type of software testing whereby the system is tested against the functional requirements. The app is tested by looking to see if the actual output for a given input corresponds with the expected output. The tests should be based on the requirements for the app. The results of functional testing can indicate if a piece of software is functional and working, but not if the software is easy to use.

User testing looks to see if a piece of software is easy and intuitive for the user.

## Functional Testing

This section describes the functional tests which were carried out on the app. These functional tests can be categorised as: (whatever is relevant to your app)

* Navigation
* Calculation
* CRUD

Functional testing generally uses a Black Box Testing technique which means that the internal logic of the system being tested is not of interest to the tester. The tester is only interested in whether the actual output agrees with the expected output.

### Navigation

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test No | Description of test case | Input | Expected Output | Actual Output | Comment |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

### Calculation

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test No | Description of test case | Input | Expected Output | Actual Output | Comment |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

### CRUD

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test No | Description of test case | Input | Expected Output | Actual Output | Comment |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

### Discussion of Functional Testing Results

## User Testing

Use the report which you have written for Interaction Design.

## Conclusion

Write a couple of paragraphs summing up the chapter. Explain what area your project is about. Describe what the chapter has discussed.

# Project Management

## Introduction

This chapter describes how the project was managed and how well the group worked together as a team. It shows the phases of the project, going from the project idea through the requirements gathering, the specification for the project, the design, implementation and testing phases for the project. It also discusses Trello, GitHub and project member’s journals as tools which assist in project management.

## Project Phases

In this section, describe each of the following project phases. Explain any issues which arose for each of the phases.

### Proposal

### Requirements

### Design

### Implementation

### Testing

## Team Work

### Roles

### Communication

### Difficulties

### Resolving Difficulties

## SCRUM Methodology

Look at Project Guidelines

Sprints

How well did the 7 sprints work?

Requirements

Project Backlog

## Project Management Tools

### Trello

Description

Include diagrams

How it worked in practice

### GitHub

Description

How it is used

How it worked in practice

### Journal

Description

How it was used

How useful it was in practice

## Reflection

### Your views on the project

Describe how you feel the project went from your perspective and from the team’s perspective.

### Completing a large software development project

Describe what you have learnt from the project, from the point of view of completing a large software development project.

### Working in a team

Describe what you have learnt from the project, from the point of view of working in a team.

### Working with a supervisor

Describe how you feel the project went from the point of view of working with a supervisor.

### Technical skills

Describe what you have learnt from the project, from a technical skills viewpoint.

### Further competencies and skills

Describe any extra competencies and skills that would help you with your development in the work place.

## Conclusion

Write a couple of paragraphs summing up the chapter. Explain what area your project is about. Describe what the chapter has discussed.

# Business Opportunities

This is from your module with Tim McNicholls

# Conclusion

One paragraph on the background, the overall aim and the goals of the project.

One paragraph on the technologies used in the project.

Research

Design

Implementation

Testing

Overall result

Project management

What was learnt

How the project could be further developed

# References

The Department of Technology and Psychology in IADT uses APA referencing style.

Use alphabetical order for your references.

This site gives details about how to cite websites using APA:

https://www.wikihow.com/Cite-a-Website-in-APA

The following is a useful site for creating citations for APA for websites.

<http://www.citationmachine.net/apa/cite-a-website>

You can also use the Referencing tab within Microsoft Word to enter reference information manually. Word then creates an APA style reference.