

Final Year Project Report

Full Unit - Final Report

Playing Games and Solving Puzzles Using Artificial Intelligence

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A report submitted in part fulfilment of the degree of

BSc (Hons) in Computer Science

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Declaration

This report has been prepared on the basis of my own work. Where other published and unpublished source materials have been used, these have been acknowledged.

Word Count:

Student Name: Terique Carnegie

Date of Submission:

Signature:

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Abstract

This document serves as a layout and formatting template for your project report. It does not tell you how to write it, or what it should contain. It explains how it should be formatted and typeset. Please refer to your project booklet for information about report sizes, contents and rules.

NOTE: in your report, you should replace this with an appropriate Abstract for your project report.

Project Specification

Your project specification goes here.

Chapter 1: Introduction

The project report is a very important part of your project and its preparation and presentation should be of extremely high quality. Remember that a significant portion of the marks for your project are awarded for this report.

The format of the final report is fixed by the template of this document and the Department of Computer Science suggests its usage.

While this may sound like a rather prescriptive approach to report writing, it is introduced for the following reasons:

1. The template allows students to focus on the critical task of producing clear and concise content, instead of being distracted by font settings and paragraph spacing.
2. By providing a comprehensive template the Department benefits from a consistent and professional look to its internal project reports.

The remainder of this document briefly outlines the main components and their usage.

A **final project report** is approximately 15,000 words and must include a word count. It is acceptable to have other material in appendixes. Your **interim report** for the December Review meeting, even if it is a collection of reports, should have a total word count of about 5,000 words. This should summarise the work you have done so far, with sections on the theory you have learnt and the code that you have written.

Also remember that any details of report content and submission rules, as well as other deliverables, are defined in the project booklet [1].

1.1 How to use this template

The simplest way to get started with your report is to save a copy of this document. First change the values for the initial document definitions such as **studentname** and **reportyear** to match your details. Delete the unneeded sections and start adding your own sections using the styles provided. Before submission, remember to fill in the Declaration section fields.

Chapter 2: **Page Layout & Size**

The page size and margins have been set in this document. These should not be changed or adjusted.

In addition, page headers and footers have been included. They will be automatically filled in, so do not attempt to change their contents.

Chapter 3: Headings

Your report will be structured as a collection of numbered sections at different levels of detail. For example, the heading to this section is a first-level heading and has been defined with a particular set of font and spacing characteristics. At the start of a new section, you need to select the appropriate L^AT_EX command, `\chapter` in this case.

3.1 Second Level Headings

Second level headings, like this one, are created by using the command `\section`.

3.1.1 Third Level Headings

The heading for this subsection is a third level heading, which is obtained by using command `\subsection`. In general, it is unlikely that fourth or fifth level headings will be required in your final report. Indeed it is more likely that if you do find yourself needing them, then your document structure is probably not ideal. So, try to stick to these three levels.

3.2 A Word on Numbering

You will notice that the main section headings in this document are all numbered in a hierarchical fashion. You don't have to worry about the numbering. It is all automatic as it has been built into the heading styles. Each time you create a new heading by selecting the appropriate style, the correct number will be assigned.

Chapter 4: Presentation Issues

4.1 Figures, Charts and Tables

Most final reports will contain a mixture of figures and charts along with the main body of text. The figure caption should appear directly after the figure as seen in Figure 4.1 whereas a table caption should appear directly above the table. Figures, charts and tables should always be centered horizontally.



Figure 4.1: Logo of RHUL.

4.2 Source Code

If you wish to print a short excerpt of your source code, ensure that you are using a fixed-width sans-serif font such as the Courier font. By using the `verbatim` environment your code will be properly indented and will appear as follows:

```
static public void main(String[] args) {  
    try {  
        UIManager.setLookAndFeel(UIManager.getSystemLookAndFeelClassName());  
    }  
    catch(Exception e) {  
        e.printStackTrace();  
    }  
    new WelcomeApp();  
}
```

Chapter 5: **References**

Use one consistent system for citing works in the body of your report. Several such systems are in common use in textbooks and in conference and journal papers. Ensure that any works you cite are listed in the references section, and vice versa.

Chapter 6: **Project Information and Rules**

The details about how your project will be assessed, as well as the rules you must follow for this final project report, are detailed in the project booklet [1].

You must read that document and strictly follow it.

Bibliography

- [1] Dave Cohen and Carlos Matos. *Third Year Projects – Rules and Guidelines*. Royal Holloway, University of London, 2013.