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Intermediate Report

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| School of Computing  Faculty of Engineering |

Full Title of Project

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Submitted in accordance with the requirements for the degree of  
BSc Applied Computer Science

**2019/2020**

Type of Project: Software Product

The candidate confirms that the work submitted is their own and the appropriate credit has been given where reference has been made to the work of others.

I understand that failure to attribute material which is obtained from another source may be considered as plagiarism.

(Signature of student)

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***Reminder about basic requirements of layout and format:***

***The report must be in typescript, sequentially page numbered, on A4, with 2.5cm margins. Point size 11 and one-and-a-half line spacing should be used.***

*Typically the intermediate report will consist of two chapters, ‘Introduction’ (including the aims, objectives, deliverables, and initial project plan) and ‘Background review,’ although this is not strictly enforced. There will also be a reference list. You should also address ethical issues somewhere in this intermediate report, even if just to state that there are none (a full discussion will be required in the final report).* ***No other material should be included*** *– deliverables should* ***only*** *be included in the Final report.*

*Note that it is not acceptable to solicit assistance on ‘proof reading’ which is defined as “the systematic checking and identification of errors in spelling, punctuation, grammar and sentence construction, formatting and layout in the text”; see http://students.leeds.ac.uk/info/103552/taught\_student\_policies\_and\_procedures/945/proof-reading\_taught\_components*

***Page Numbering: The pages preceding the body of the text, i.e. from "Summary" to "Contents" inclusive, should be sequentially numbered in Roman numerals. All the remaining pages should be numbered in a single sequence of Arabic numerals.***

***Length: This report should be no more than 10 pages, excluding the references, the table of contents and the title page.***

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Planning

Background research

Meetings minutes?

Gannt chart..

Version control, repository choices. All on background research. All choices need to be declared on background research..?

check to make sure im not using ‘i..’ anywhere

# Chapter 1 Introduction

Propositional logic, also known as propositional calculus, deals with propositions and argument flow; compound propositions are formed by connecting atomic propositions with logical connectives [1].

I believe that the vast majority of young people/students can learn propositional logic with relative ease, if they do not feel intimidated by the symbols used and look at the problems presented to them objectively.

## 1.1 Project Description

An easy to use web application that is able to teach users about propositional logic in a simple yet effective manner. The web application should contain embedded tools which users can use for various different reasons; these being, a truth-table generator, an abstract syntax tree generator and a propositional logic formula syntax checker.

## 1.2 Project Aim(s)

The aim of this project was to present information on the basic concepts of propositional logic in the form of text on a web application; alongside this, a propositional logic syntax checker which ensures that the propositional formula inputted by the user is unambiguous and in an appropriate format. As well as a truth-table generator which evaluates the atomic propositions with their truth values [2]; and an abstract syntax tree, which shows the user the breakdown and order of how their propositional formula is read [3].

The abstract syntax tree, truth table generators will be held on separate webpages; as well as a separate page for the propositional formula syntax checker.

## 1.3 Project Deliverables

Once I’ve finished this project, I plan to submit:

* The final project report.
* The source code for my web application in its entirety, which will be stored using a version-controlled repository.

The web application will be live and if it meets its objectives, then the web application will be self-explanatory to learn from and utilise.

## 1.4 Project Schedule

I have created a Gantt chart, see Figure 1.1, to represent my allotted time for the project. A decision has been made to complete the majority of the final project report itself towards the end of the timeline; this is to ensure that the project itself gets created and is functional.

Figure 1.1: Gantt Chart to Show …

## 1.5 Project Methodology

The project methodology will consist of three developmental phases: the planning, the project management and then the testing of the project itself.

REMEMBER. ITS PLANNING.

Mention porotypes, getting appropriate feedback from stakeholders etc

**CHAPTER 2**

**Background Research**

* *Need to demonstrate a clear understanding of the problem that the software is meant to solve.*
* *Expect a critical analysis of existing solutions and options.*

The background research conducted for this project consists of: analysing similar existing systems; determining what platform, language(s), framework(s) should be used; researching the most efficient software development methods to use; and conducting appropriate requirements engineering techniques to uncover requirements.

**2.1 Existing Systems**

My project consists of the web application with the extra features (ambiguity checker, parse tree generator,

# Chapter 3 Project Planning and Management

# Chapter 4 Tables and Figures

## 2.1 Tables using the ‘table caption’ and ‘table description’ Styles

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**Table 2.1** Caption of Table — automatically appears in the List of Tables when that is updated The ‘table caption’ style has been applied to this paragraph by pressing Ctrl Shift T.

This is the table description in the ‘table description’ style. It is optional text to give more information about the table and does not appear in the List of Tables.

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| --- | --- | --- |
| **Heading One** | **Heading Two** | **Heading Three** |
| 1.1 | 1.2 | 1.3 |
| 1.21 | 1.22 | 12.3 |
| 12.31 | 12.32 | 12.33 |

# Chapter 5 References

*<It is expected that the list would reflect the breadth and depth of scholarly research undertaken by the student during the course of the project.>*

See ref list file\*