

# Lab Marking system

Heriot-Watt University

Final Year Dissertation

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# Declaration

I, Lewis Francis McNeill, confirm that this work submitted for assessment is my own and is expressed in my own words. Any uses made within it of the works of other authors in any form (e.g., ideas, equations, figures, text, tables, programs) are properly acknowledged at any point of their use. A list of the references employed is included.

Signed: Lewis McNeill

Date: November 9, 2016

## **Abstract**

The project aim is to develop a web application that will be used to improve marking of computing labs. The application will be designed to be used by Students to quickly know their grade, by Lab Helpers to easily mark labs and Lecturers to see marking immediatly as it is done.

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# **1 Aims, Objectives and Project Description**

## **1.1 Aim**

## **1.2 Objectives**

## 2 Literature Review

This section contains the current academic literature relating to the digitalisation of marking systems.

### 2.1 Digital Marking Systems

The aim of digitalising marking systems is to mirror current paper based marking systems but [1]

”What we want to achieve in our system is to provide a marking environment that mirrors these paper-based marking techniques plus takes advantage of the electronic environment”, *Online Marking of Essay-type Assignments* [1].

### 2.2 User Dependant Views

### 2.3 something

## 3 Requirements

### 3.1 System Requirements

ID	Requirement	Type	Description	Priority
R1	Test	Test	Test	Test
R2	Test	Test	Test	Test

### 3.2 Usability Requirements

## **4 Strategy for testing and evaluation**

### **4.1 Testing**

Testing and evaluation of the system will be done in two parts. To start with throughout the development of the the system unit tests will be used to make sure that the system is robust and functional.

### **4.2 Evaluating**

Once the system is completed a useability case study will be conducted to evaluate how successful the development of the marking system was and how later versions can be improved.



## **5 Project Plan and Professional, Legal, Ethical and Social Issues**

## References

- [1] E. Heinrich, Y. Wang, *Online Marking of Essay-type Assignments*; 2003. (<http://www-ist.massey.ac.nz/MarkTool/Publications/EdMedia2003Onscreen.pdf>)
- [2] J. D. Bovey, M. M. Dodson, The Hausdorff dimension of systems of linear forms  
*Acta Arithmetica* **45** (1986), 337–358.
- [3] J. W. S. Cassels, *An Introduction to Diophantine Approximation*, Cambridge University Press, Cambridge, 1965.
- [4] The GAP Group, GAP – Groups, Algorithms, and Programming, Version 4.5.6; 2012. (<http://www.gap-system.org>)
- [5] J. Howie, *Generalised triangle groups of type  $(3, 5, 2)$* , <http://arxiv.org/abs/1102.2073> (2011).