

# 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 2, 2016

### **Abstract**

Write a short abstract of your essay here.

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

## **1.1 Aim**

## **1.2 Objectives**

## 2 Literature Review

## 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**

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.

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).