National College of Ireland

Technical Report

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Software Development Stream 4th Year

BSc. Honours in Computing, **National College of Ireland** *(2016-2017)*

Available on

GitHub

Project Name: MeetingRoom Pro

Github: https://github.com/Virksaabnavjot/MeetingRoom-Pro

Website: http://roomassistant.navsingh.org.uk

Documentation: Github Repository here

Table of Contents

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Executive Summary

Maximum 300 words. The abstract should mention the problem being addressed, describe the technical solution and briefly report the findings of the evaluation.

1 Introduction

This template for technical report is provided for your convenience. It should be seen as a guide rather than an obligatory form. Your individual report might require changes in terms of format or content (i.e., headings) or both.

Print on one side of the paper only (this will be the right hand side when the pages are bound).

1.1 Background

Why?

1.2 Aims

What?

1.3 Technologies

How? - Brief description of the technologies used in the project. Do not copy & paste descriptions from websites here, but describe what it is and how it contributes to your project.

1.4 Structure

Brief overview of each chapter

2   System

2.1   Requirements

This section will be similar to your original requirements specification. Requirements have probably evolved somewhat since. Where this is the case explain what changed and why.

2.1.1   Functional requirements

2.1.2   Data requirements

2.1.3   User requirements

2.1.4   Environmental requirements

2.1.5   Usability requirements

2.2   Design and Architecture

Describe the design, system architecture and components used. Describe the main algorithms used in the project. (Note use standard mathematical notations if applicable).

An architecture diagram may be useful. In case of a distributed system, it may be useful to describe functions and/or data structures in each component separately.

2.3   Implementation

Describe the main algorithms/classes/functions used in the code. Consider to show and explain interesting code snippets where appropriate.

2.4   Graphical User Interface (GUI) Layout

Provide screenshots of key screens and explain.

2.5 Testing

2.6 Customer testing

2.7 Evaluation

Table 1: Performance with and without caching

	$N_{without}$	N_{with}	Std.-Deviation$_{with}$	Std.-Deviation$_{without}$	p
Records	100	200	2.54	3.97	.002
Data (GB)	100	200	2.54	3.97	.002
Speed	100	200	2.54	3.97	.002

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Figures have their caption below the figure as shown in **Error! Reference source not ound.**. Make sure that if you use colour, the figure is still readable when printed in black & white, e.g., by using additional symbols, patterns, etc.
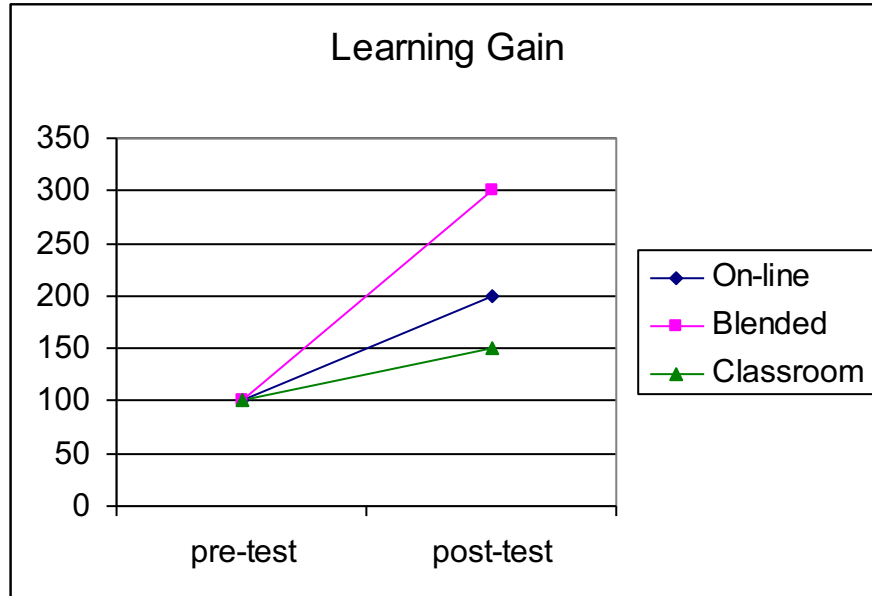

Figure 1: Learning gain across different experimental groups

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3   Conclusions

Describe the advantages/disadvantages, opportunities and limits of the project.

4 Further development or research

With more resources, where could the results of this project lead to?

5   References

It is recommended that students use the APA, Berkeley, Harvard or other internationally approved style. Here is an example of the APA citation style:

Wilcox, R. V. (1991). Shifting roles and synthetic women in Star Trek: The Next Generation. *Studies in Popular Culture, 13*(2), 53-65.

In the text this article can be cited as "Wilcox (1991)" or "(Wilkox, 1991)".

References to web sites must include the access dates.

The library provides a study guide on Harvard style referencing.

6   Appendix

6.1   Project Proposal

6.2   Project Plan

6.3   Monthly Journals

6.4   Other Material Used

Any other reference material used in the project for example evaluation surveys etc.