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Undergraduate Project Report

2024/25

**Project Title**

|  |  |
| --- | --- |
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| Class: | 2021215116 |
| QMUL Student No.: | 210981128 |
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**Date: 07-04-2025**

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# Abstract

The abstract should be a short overview of the whole report (200-300 words maximum). It should give the reader enough information about your whole project to know what you have tried to do and whether you were successful.

# Keywords

Keyword 1, Keyword 2, Keyword 3 (List of Keywords, separated by commas)

**摘要**

This is the Chinese translation of the Abstract.

**关键词**

This is the Chinese translation of the Keywords, separated by commas and following the same sequence.

# Introduction

The *Introduction* is one of the most important parts of your report as it gives a brief overview that will make the reader understand (i) what you set out to do and (ii) what you achieved. Many readers will read the *Introduction* first and then the *Conclusions* to get an overview before reading the detail – so it is important that both sections are very carefully written.

It is very important that *Introduction* introduces the **report** and the **project** – it is not there to introduce the subject in general.

There are no rules on how to write an introduction, but it should include what the project is about, give *a very short description* of the technical context in which the project is carried out and explain the motivation for the work. If you are doing an implementation project it must explain what functionality the system **realises**, and if you are doing a research project what is the novelty of the approach used.

Very importantly, it should clearly indicate what you have done for the project.

A good introduction should be no more than 4 pages.

## Format

### Format for headings

Format for level 1, 2 and 3 headings is given in this template; just choose the relevant style from the format list.

### Format for body text

Font Times New Roman, Font size should be 12pt, 1.5 line spacing in and justified. Do not indent the first line.

### Format for equations

Equations should be centred with a numbered caption on the right; an example is below:

|  |  |  |
| --- | --- | --- |
|  |  | (1) |

### Format for figures

Figures should be centred and followed by captions. Captions should be centred, 10pt font Times New Roman Bold. Use automatic numbering without chapter number for captions. Select “Caption” from Styles and Formatting to format captions.

Whenever you include a figure in your document you must reference it in the text e.g. this is a reference to Figure 1 using an MS Word **cross-reference** for the figure number.

When presenting graphs, make sure you label the axes and include units where applicable. Also include a legend (i.e. key) where appropriate.

Figure : Comparison of energy components

### Format for Tables

Unlike figures, the caption for a table should be before the table; Table 1 shows an example of the correct layout.

Table : Example Table

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |

# Background

In this part of the report, you should give all the relevant background information about your project. Remember that your reader will not necessarily know the background technology you are using, so it is worthwhile to let them know.

Also if your project is a research project, this is a good place to put down the related work or state of the art in the area – what the others have done? And why your research is novel?

But don’t make the background too long with every detail. It should be relevant to your project, with all the necessary information, written nicely and crisply.

# Design and Implementation

Normally there will be a part about the design and implementation of the system, especially for an implementation type of project. However, every project has its unique phases so you should talk to your supervisor about it.

# Results and Discussion

Most projects will have results, especially for a research project. But again you should talk to your supervisor about it.

# Conclusion and Further Work

The conclusion is an important part of the report, as it states what you have done for the project.

## Conclusion

It concludes the findings of your research or the outcome of implementing a system. A good conclusion will NOT repeat what you have done, but set out the achievements very crisply.

## Reflection

This chapter should include a reflection statement for your project. You should critically reflect upon the technical skills developed, new knowledge gained, and lessons learnt on the project journey. You are encouraged to include reflections on broader ethical, social, legal, and environmental issues, allied with good professional practice and behaviour you have adopted in conducting your project.

## Further work

Further work can be the next step of your research, or some functionality that can be added to the implementation to make it more practical.

**NOTE: The maximum length of the report up to here is 50 pages.**

References

Everything you cite from other sources should be properly referenced. The QMUL Faculty of Science and Engineering has identified the Vancouver referencing style (and its variations) as the recommended style for project reports. Details about the referencing style and examples can be found online. <https://www.qmul.ac.uk/library/academic-skills/referencing-hub/referencing-guides-and-resources/>

It is recommended to prepare the references with a reference management software, such as [EndNote](https://www.qmul.ac.uk/library/academic-skills/endnote/endnote-online/) or [Zotero](https://qmplus.qmul.ac.uk/mod/book/view.php?id=653429&chapterid=66169) to automate some of the processes of collecting, managing and using references. Queen Mary Library Services promote the use of [Cite Them Right Online](http://ezproxy.library.qmul.ac.uk/login?url=https://www.citethemrightonline.com/) (login required) as a tool to support Queen Mary students in their referencing.

Here are some examples in Vancouver referencing style:

**Book Chapters:**

Mouftah HT, Erol‐Kantarci M, Husain Rehmani M. Transportation and Power Grid in Smart Cities: Communication Networks and Services. 1 ed: Wiley; 2018.

**Journal Articles:**

Basar E, Di Renzo M, De Rosny J, Debbah M, Alouini MS, Zhang R. Wireless Communications Through Reconfigurable Intelligent Surfaces. IEEE Access. 2019;7:116753–73.

**Conference Papers:**

Saputra YM, Hoang DT, Nguyen DN, Dutkiewicz E, Mueck MD, Srikanteswara S. Energy Demand Prediction with Federated Learning for Electric Vehicle Networks. 2019 IEEE Global Communications Conference (GLOBECOM). Waikoloa, HI, USA: IEEE; 2019. p. 1–6.

**Online sources:**

Queen Mary University of London. Student Guide to Generative AI [Internet]. 2024 [cited 15 Jan 2025]. Available from: <https://www.qmul.ac.uk/library/academic-skills/student-guide-to-generative-ai/>

Acknowledgement

Give your acknowledgement to people who helped you during the project here. Maximum length of this section is 1 page. You may thank your supervisor but DO NOT MENTION YOUR SUPERVISOR’S NAME HERE due to the blind marking policy.

Appendices

## Disclaimer

This report is submitted as part requirement for the undergraduate degree programme at Queen Mary University of London, and Beijing University of Posts and Telecommunications. It is the product of my own labour except where indicated in the text. The report may be freely copied and distributed provided the source is acknowledged.

BUPT No.:

QMUL No.:

Full Name (Pin Yin):

Full Name (Chinese):

Signature:

Date: DD-MM-YYYY

## Project specification

Include your project specification, part 1 and part 2 here. It must be the final version submitted to QMPlus.

## Early-term progress report

Include your project early-term progress report here. It must be the final version submitted to QMPlus.

## Mid-term progress report

Include your project mid-term progress report here. It must be the final version submitted to QMPlus.

## Supervision log

Include your project supervision log here.

## Additional appendices (as needed)

Information that you think may be helpful or relevant for the reader but that is not directly relevant to the story of your project. Things that might be suitable as an appendix to a report are:

* Large tables of numerical results that have been displayed graphically in the main body of the report.
* Important parts of datasheets for specific devices you have used in your project if you think that they are important enough that the reader should have access to them without finding them off the web themselves.
* Mathematical proofs and results that are important to show but not important to the flow of the story in the report.

NOTE: Full code listings must NOT be included as an appendix, but extracts of code may be included in the body of the report to illustrate particular points. Code should be submitted as supporting documents to QMPlus.

Risk and Environmental Impact Assessment

Please refer to the project handbook section 3.6.12.