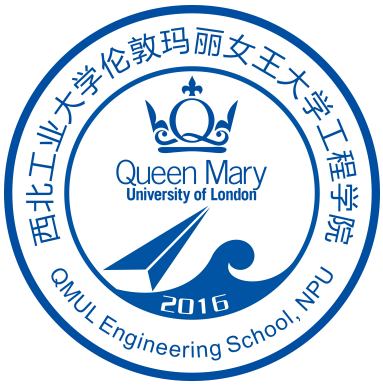

Report Template of QMES

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Word Count: 1919810
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Course: QXU114514

Contents

1 Introduction

This template is design for student of QMUL engineering school, NPU.

The main content of the document begins here. And page numbering starts here.

2 Methodology

Sample text for demonstrating the template features.

2.1 User's customization

For better use, the template has some customizable content.There is some basically customization below:

```
\title{Edit this to your report name}
\course{The course code}
```

Generally speaking, no changes are needed in this line. Unless you need the report to show a date that's not today.

```
\date{\today}
```

For the security reasons, users can only count the number of characters by themselves. it's recommended that count your PDF files.

```
\wordcount{The word count of your report}
```

For each team member, you need to add their personal information with a single addstudent directive so that they can be displayed in the author column of the title page

```
\addstudent{your team parter's name}{his/her student number}
```

2.2 Figures and Tables

Here we shows the example of Table and Figure. Notably, we fixed an issue where the font size of the headers for legends and tables (and, of course, code blocks) was incorrect.

Listing 1: The Implementing of the Table below

```
\begin{table}[h!]
    \centering
    \caption{Example of Table}
    \label{table:1}
    \begin{tabular}{ccc}
        \hline
        Animal & Food  & Size   \\
        \hline
        dog    & meat  & medium \\
        horse  & hay   & large  \\
        frog   & flies & small  \\
        \hline
    \end{tabular}
\end{table}
```

Table 1: Example of Table

Animal	Food	Size
dog	meat	medium
horse	hay	large
frog	flies	small

Listing 2: The Implementing of the figure below

```
\begin{figure}[ht]
    \centering
    \includegraphics[width=0.2\textwidth]{./figure/LOGO.jpg}
    \caption{LOGO fig}
\end{figure}
```

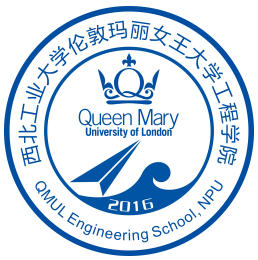

Figure 1: LOGO fig

2.3 Listings

Example of implementing code blocks throught listings is below:

Listing 3: The Implementing of Code Block Below

```
\begin{lstlisting}[language=Python,caption={Example Code 1}]
    def hello_world():
        print("Python code example")
\end{lstlisting}
```

Listing 4: Example Code 2

```
    def hello_world():
        print("Python code example")
```

Here shows implement code blocks throught include code file:

Listing 5: The Implementing of Code Block Below

```
\includecode[language=C++,caption={Example for include code file}]{src/main.cpp
    ↪ }
```

Listing 6: Example for include code file

```
#include <iostream>
using namespace std;
int main()
{
    int n;
    cin >> n;
    int day[1001];
    for (int i = 0; i < n; i++)
    {
        cin >> day[i];
    }
    for (int j = 0; j < (n - 1); j++)
    {
        if (day[j] == 31)
        {
            if (day[j + 1] == 31)
            {
                if (day[j + 2] == 31)
                {
                    cout << "No";
                    return 0;
                }
            }
        }
        else if (day[j] == 28 || day[j] == 29)
        {
            if (day[j + 1] == 30)
            {
                cout << "No";
                return 0;
```

```
            }
        }
        else if (day[j] == 30)
        {
            if (day[j + 1] == 30)
            {
                cout << "No";
                return 0;
            }
        }
    }
    cout << "Yes";
    // Look a very looooooooooooooooooooooooooooooooooooooooooooooooog
    ↪ striiiiiiiiiiiiiiiiiiiiiiiiiiiiiing
    return 0;
}
```

3 Customization of Template

You can futher customize your document by modifying some parameters in the $qmes-template.cls$.

3.1 Caption Design

Here, users can customize the font of the title in the floating environment (such as in the chart), as shown below. The default title font in the template is one size smaller than the main text font. In addition to the already displayed $font$, there are also parameters such as $margin$ and $labelfont$ that can be set.

Listing 7: Settings of Caption in ċls File

```
\RequirePackage{caption}
\captionsetup[table]{font=small} % Set captions to small size
\captionsetup[lstlisting]{font=small}
\captionsetup[figure]{font=small}
```

3.2 Hyperlink and References Design

The $hyperref$ package defines the colors of hyperlinks and reference symbols in an article. For the simplicity of the interface, the template is set to black by default.

Listing 8: Setting of Hyperlinks and Cites

```
\RequirePackage[colorlinks,linkcolor=black,citecolor=black,urlcolor=black]{
    ↪ hyperref}
```

3.3 Footnote Design

In the shown code, users can conveniently modify the top and bottom of the page.

Listing 9: The Head and Footnote Settings in ċls File

```
\fancyhead[L]{\footnotesize QMUL Engineering School, NPU}
\fancyhead[R]{\footnotesize \@course}
\fancyfoot[R]{\thepage{} of \pageref{LastPage}}
\fancypagestyle{plain}{\pagestyle{fancy}}
```

4 Future Development

We plan to develop Chinese version for NWPU.