Report writing using Project Template V3.8

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Introduction

Introduction

- Where to get Project report template?
- How to use commands of `ecproject` package?
- How to add Glossaries and Acronyms?
- How to add bibliography?

Project template [V3.8]

How to access "Project template" zip file

Head to the following website:

https://github.com/rvce-latex/Project-Report-Template

ecproject package command categories

1. Document related commands
2. Report type commands
3. Student related commands
4. Guide related commands
5. Esteemed members related commands

Document Related commands

```
\title{Design and Analysis of Oversampling ADC}
\subCode{XX367P}
\Department[ECE]{Electronics and Communication Engineer
\academicYear{2024-25}
```
• IDP report doesn't consider this command.

Support for all Department: [For UG/PG Major/Minor project]

```
\Department[<short-form>]{<long-format>}

\Department[ECE]{Electronics and Communication Engineering}
```

Report Type commands

By default, the template will generate UG Major Project.

```
%\IDPProject
%\MinorProject
%\pgProgram
%\DTLProject      ←——————• Not Fully supported yet!
```

Report Type commands

To generate IPD report: Uncomment \IDPProject

```
\IDPProject
%\MinorProject
%\pgProgram
%\DTLProject
```

Support for UG & PG report

```
%\pgProgram
\MastersIn[<short-form>]{<long-format>}
\pgProgramName{<Program Name>}
-------------------------------------------------------------------
\pgProgram
\MastersIn[M.Tech]{Master of Technology}
\pgProgramName{VLSI Design \& Embedded Systems}
```

To Un-comment: Short-cut key

Ctrl + Shift + u

To Comment: Short-cut key

Ctrl + Shift + T

Support for Major & Minor project report

```
%% Uncomment \MinorProject line, if the report is for
%%      Minor project.
%\MinorProject
```

To Un-comment: Short-cut key

```
Ctrl + Shift + u
```

To Comment: Short-cut key

```
Ctrl + Shift + T
```

Student Related commands

Considered for PG
Major/Minor Project

Considered for UG
Major/Minor Project

Considered for IDP Project

```
\stuNameA{}        ↦        \stuUSNA{}
\stuNameB{}        ↦        \stuUSNB{}
\stuNameC{}        ↦        \stuUSNC{}
\stuNameD{}        ↦        \stuUSND{}
\stuNameE{}        ↦        \stuUSNE{}
\stuNameF{}        ↦        \stuUSNF{}
```

Student Related commands

```
\stuNameA{}      ↦      \stuUSNA{}
\stuNameB{}      ↦      \stuUSNB{}
\stuNameC{}      ↦      \stuUSNC{}
                 •
                 •
```

Name   USN

```
\stuNameA{ }      ↦      \stuUSNA{ }
```

Guide Related commands

For Internal Guide:

```
\guideNameA{}
\guideDesignationA{}
\guideDeptA[]{}
\guideOrgA{}
```

For External Guide:

```
\guideNameB{}
\guideDesignationB{}
\guideDeptB{}
\guideOrgB{}
```

- For IDP/DTL/Minor Projects: Only Internal guide commands are used.
- For internal guide department, \guideDeptA[]{} - **Department Name** have to specify short form inside *square* bracket and long form inside *curly* bracket.

Esteemed Members Related commands

```
\panelMemberNameA{}
\panelMemberDesigA{}
\panelMemberDeptA[]{}
```

```
\panelMemberNameB{}
\panelMemberDesigB{}
\panelMemberDeptB[]{}
```

```
\projectCoOrdNameA{}
\projectCoOrdDesigA{}
\projectCoOrdDeptA[]{}
```

```
\projectCoOrdNameB{}
\projectCoOrdDesigB{}
\projectCoOrdDeptB[]{}
```

Esteemed Members Related commands

```
\HOD{Dr. H. V. Ravish Aradhya}
\DeanAcademics{Dr. M.V. Renukadevi}
\VicePrincipal{Dr. Geetha K S}
\Principal{Dr. K. N. Subramanya}
```

Project template [V3.8]
Glossaries and Acronyms

Glossaries and Acronyms

Symbols like: c, τ, ϵ, etc.
For Example, $E = mc^2$ where c represents the speed of light.

- Glossaries
- Acronyms

LIST OF SYMBOLS

c Speed of Light

Glossaries and Acronyms

- Glossaries
- Acronyms

Sort-forms like:
IC for Integrated Circuits
FDTD for Frequency Difference Time Domain

ABBREVIATIONS

IC Integrated Circuits
FDTD Frequency Difference Time Domain

About Glossaries

1. Definition commands
2. Display commands
3. Compilation

Definition commands

```
\newglossaryentry{<Ref>}{name=<Symbol>,
        description={<description about the symbol>},
        type=<List type>}

\newglossaryentry{rc}{name=$\tau$, description={Time constant},
        type=symbolList}
```

```
\newacronym{<Ref>}{<Short-Form>}{<Expanded Form>}

\newacronym{ic}{IC}{Integrated Circuits}
```

Display commands

```
\gls{<Ref>}:                              when it first appears
\gls{rc}              ↦           τ                  ↓

\gls{ic}              ↦              Integrated Circuits (IC)
\gls{ic}              ↦              IC  ←—— After it's first usage
```

Variants:

`\glspl{}, \Gls{}, \acrfull{}, \acrshort{}, etc.`
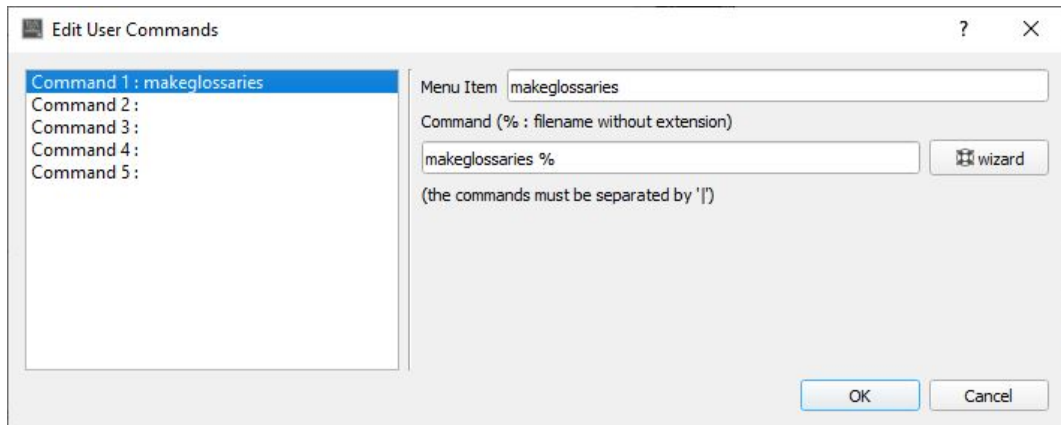
For more info:
`https://en.wikibooks.org/wiki/LaTeX/Glossary`

Compilation in TeXstudio

In TeXstudio, go to: `Tools ↦ Commands ↦ Makeglossaries`
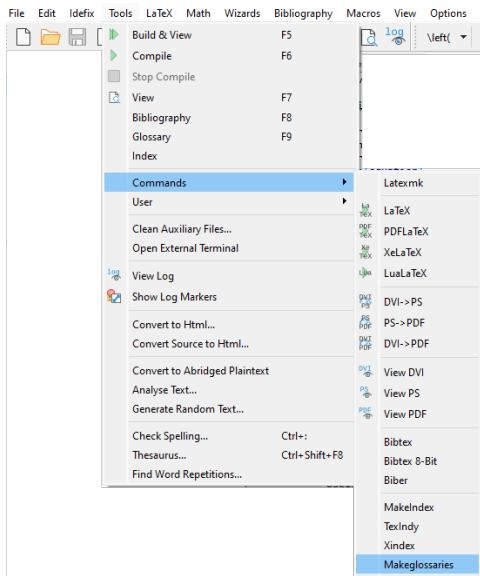
Compilation in TeXstudio

In TexMaker, go to: `User ↦ User commands ↦ Edit User commands`

Compilation in TeXstudio: Run

Sequence of execution:

1. ▷ Quick Build (or) [F1]
2. ▷ 1: makeglossaries (or) [Alt + Shift + F1]
3. ▷ Quick Build (or) [F1]

Project template [V3.8]
Bibliography

Bibliography

Need of an open source software: **JabRef**

https://www.jabref.org/download/win

Download JabRef Windows Installer.
Install for all users.

Setting in TexMaker:
1. Ensure that the path of Biblatex is set appropriately
   Goto Options ↦ Configure TexMaker ↦ Commands ↦ bbib(la)tex
   In my case:
   "C:/Program Files/MiKTeX 2.9/miktex/bin/x64/biber.exe" %
2. Change the Quick Build option to
   PdfLatex + Bib(la)tex + PdfLatex (x2) + View Pdf

ProjectBib.bib

1. Open `ProjectBib.bib` file under `AuxFiles` folder in `JabRef`
2. To add references, use `Ctrl + n` - which brings Entry window
3. Under `ID-based entry generator` frame, select appropriate `ID type`
   - DOI: For articles/papers/book chapters
   - ISBN: For books

   Else use the appropriate option to manual enter the references
4. Select the entry and copy the reference using `Ctrl + k`
5. Paste the reference into the content section appropriately.
6. Run the `Quick Build`

Contact Us

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