# Project title

*A Mini Project Report*

*submitted to the APJ Abdul Kalam Technological University*

*in partial fulfillment of the requirements for the award of degree of*

***Bachelor of Technology***

*in*

***Computer Science and Engineering***

*by*

**batch member 1(batch member1 roll no)**

**batch member 2(batch member2 roll no)**

**batch member 3(batch member3 roll no)**

**batch member 4(batch member4 roll no)**


**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**ST.THOMAS COLLEGE OF ENGINEERING AND TECHNOLOGY**

**MATTANNUR**

**July 2022**

**DEPT. OF COMPUTER SCIENCE AND ENGINEERING ST.THOMAS COLLEGE OF ENGINEERING AND TECHNOLOGY MATTNNUR**

**2021 - 22**


## CERTIFICATE

This is to certify that the report entitled **Project title** submitted by **batch member 1** (batch member1 roll no), **batch member 2** (batch member2 roll no), **batch member 3** (batch member3 roll no) & **batch member 4** (batch member4 roll no) to the APJ Abdul Kalam Technological University in partial fulfillment of the B.Tech. degree in Computer Science and Engineering is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

**Internal Supervisor** **External Examiner**

**Project coordinator** **Head of Department**

## DECLARATION

We hereby declare that the mini project report **Project title**, submitted for partial fulfillment of the requirements for the award of degree of Bachelor of Technology of the APJ Abdul Kalam Technological University, Kerala is a bonafide work done by us under supervision of **Mrs/Mr. Project guide**

This submission represents our ideas in our own words and where ideas or words of others have been included, we have adequately and accurately cited and referenced the original sources.

We also declare that we have adhered to ethics of academic honesty and integrity and have not misrepresented or fabricated any data or idea or fact or source in our submission. We understand that any violation of the above will be a cause for disciplinary action by the institute and/or the University and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been obtained. This report has not been previously formed the basis for the award of any degree, diploma or similar title of any other University.

**batch member 1**

**batch member 2**

**batch member 3**

**batch member 4**

Mattannur

27-07-2022

# Acknowledgement

We take this opportunity to express my deepest sense of gratitude and sincere thanks to everyone who helped us to complete this work successfully. We are extremely thankful to our Principal **Dr. SHINU MATHEW JOHN** for giving us his consent for this project.

We express our sincere thanks to **Mrs. AMITHA I C**, Head of the Department, Department of Computer Science and Engineering for providing us with all the necessary facilities and support.

We would like to express our sincere gratitude to the Project coordinator, **Mrs. DINLA OK**, Asst. Professor, Department of Computer Science and Engineering for the support and co-operation.

We would like to place on record our sincere gratitude to our project guide **Mrs/Mr. Project guide**, Asst. Professor, Department of Computer Science and Engineering for the guidance and mentorship throughout this work.

Finally we thank our family, and friends who contributed to the succesful fulfillment of this Project work.

**batch member 1**

**batch member 2**

**batch member 3**

**batch member 4**

# Abstract

This document contains essential templates required to write technical reports using LaTeX. This template may be used for the preparation of B.Tech seminar reports of APJ Abdul Kalam Technological University, Kerala. Also minimum working examples to create equations, include figure, include table, table of contents symbols list and bibliographic citation in a LaTeX document are provided.

Please note that this template is provided without warranty on an AS IS basis.

# List of Figures

# List of Tables

# Contents

# Chapter 1

# Introduction

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## 1.1 Motivation

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## 1.2 Problem definition

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

## 1.3 Organization of the report

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# Chapter 2

# Literature Review

Each chapter is to begin with a brief introduction (in 4 or 5 sentences) about its contents. The contents can then be presented below organised into sections and subsections.

Technical writing is writing or drafting technical communication used in technical and occupational fields [1], such as computer hardware and software [2], engineering, chemistry, aeronautics, robotics, finance [3], medical, consumer electronics, biotechnology, and forestry. Technical writing encompasses the largest sub-field in technical communication. See figure 4.1 that shows the autonomous systems in Internet.

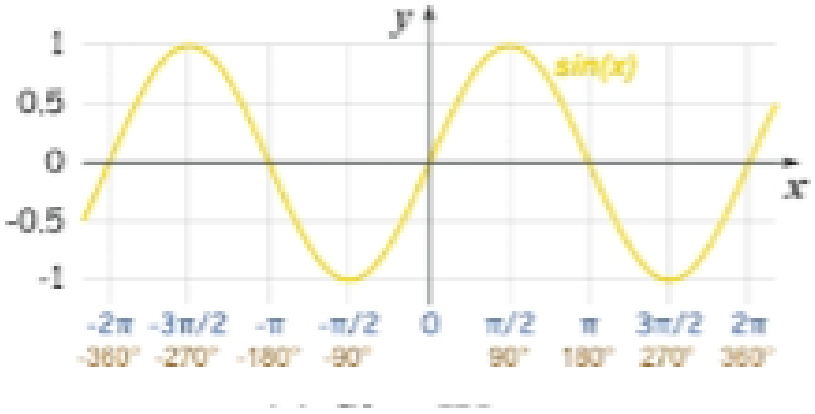


Figure 2.1: Autonomous System Hierarchy

## 2.1 section1

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## 2.2 section2

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## 2.3 section3

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## 2.4 section4

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$$y = mx + c \tag{2.1}$$

Page centered and unnumbered multiple equations. The * symbol supresses equation numbering.

$$2x - 5y = 8$$
$$3x + 9y = -12$$

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ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris. Side by side figures can be created using this environment. See fig 2.2 below. Nam dui ligula, fringilla a, euismod sodales,


(a) Sine Wave (b) Cosine Wave

Figure 2.2: The Sine and Cosine waves

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Table 2.1: test table

| Sl. No | Item 1 | Itm 2 |
|---|---|---|
| 1 | 37 | 45 |
| 2 | 42 | 23 |
| 3 | 47 | 1 |
| 4 | 52 | -21 |
| 5 | 57 | -43 |
| 6 | 62 | -65 |
| 7 | 67 | -87 |
| 8 | 72 | -109 |
| 9 | 77 | -131 |
| 10 | 82 | -153 |

# Chapter 3

# System Analysis

Each chapter is to begin with a brief introduction (in 4 or 5 sentences) about its contents. The contents can then be presented below organised into sections and subsections.

## 3.1 Requirement Analysis

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### 3.1.1 Functional Requirement

### 3.1.2 Non Functional Requirement

## 3.2 Feasibility Study

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### 3.2.1 Technical Feasibility

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### 3.2.2 Operational Feasibility

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### 3.2.3 Economic Feasibility

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# Chapter 4

# System Design and Schedule

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## 4.1 System Architecture

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## 4.2 Use Case Diagram

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## 4.3 Data Flow Diagram

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## 4.4 Sequence Diagram

## 4.5 Gantt Chart

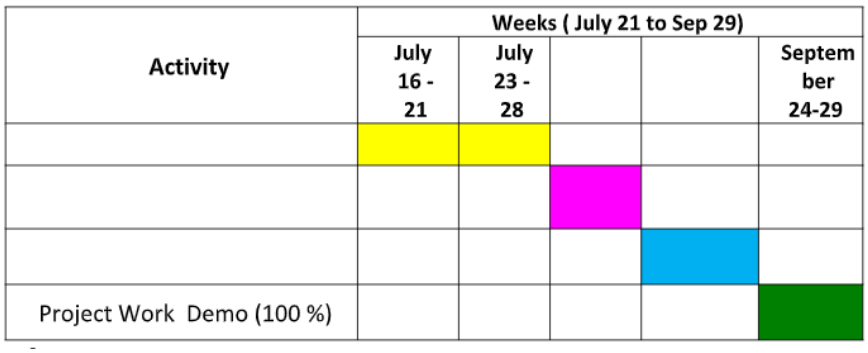


Figure 4.1: Modules Split-up and Gantt Chart

# Chapter 5

# Project Title

Each chapter is to begin with a brief introduction (in 4 or 5 sentences) about its contents. The contents can then be presented below organised into sections and subsections.

## 5.1 Module Name

## 5.2 Module Name

# Chapter 6

# Implementation and Testing

# Chapter 7

# Results and Discussion

# Chapter 8

# Conclusion and Future Scope

Each chapter is to begin with a brief introduction (in 4 or 5 sentences) about its contents. The contents can then be presented below organised into sections and subsections. Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

# References

[1] HU, Yun Chao, et al., *Mobile edge computing?A key technology towards 5G*, ETSI white paper, 2015, vol. 11, no 11, p. 1-16.

[2] @online Raspberry pi, `https://www.raspberrypi.org/` Online; accessed 10-June-2019

[3] HU, Yun Chao, et al., *Mobile edge computing?A key technology towards 5G*, ETSI white paper, 2015, vol. 11, no 11, p. 1-16.