



INSTITUTE OF
SOFTWARE
TECHNOLOGIES

PROJECT PAPER SECTIONS

Title Page

A concise statement of the main topic and should identify the variables. - Should be a reflection of the contents of the document. - Fully explanatory when standing alone. - Abbreviations should not appear in the title. - Scientific names should be in italics. - Should contain 12 to 15 words.

Author's name and affiliation

Avoid use of words like 'By....' 'from....' - Preferred order of names- start with the first name

Full names should be used, initials should be avoided. - Titles like Dr. should not appear in the names. Affiliation should be well illustrated i.e.,

"A Project Submitted for partial fulfillment of the requirements for the award of Diploma in Full Stack Software development to the department of web development at the Institute of Software Technologies."

The year should follow at the bottom of the caption. Note: -For proposals (spiral bound) the cover page should include the title, author and affiliation (all on one page) and centered.

Declaration page

Contains the students' declaration of the originality of the project report. This declaration page must be signed by both the student and respective supervisor.

Dedication page (optional)

Students may include an optional dedication for the project report. The dedication must be brief, not more than one paragraph and must not contain any number, chart or photograph.



Acknowledgement page (optional)

Here you have the opportunity to thank the various people who have helped in the development of the project. It might include specific individuals who have given information, offered insights, or generally been supportive. It may also include fellow students.

Table of contents

Table of content identifies the contents and organization of document. It is made up of section headings and page numbers. The table of content should be auto generated using the respective word processor.

List of tables

Section consists of list of tables used in the project, indicating table no, its title and page number.

List of figures/illustrations

Section consists of list of the figures or illustrations such as diagrams, photographs, drawings, graphs, charts, maps etc. used in the report indicating figure number, its title and page number



Chapter One

Chapter one should be between a minimum of 2 pages and maximum of 3 pages and consist of the following sections

- i. **Introduction:** introduction of the project area; how it operates and how the problem exists
- ii. **Background of the study-** is a minimum of ½ page and maximum of 1 page, it's a detailed background information about the project/research area and about the client. It should be clear on what business the client is involved in and how operations are currently conducted
- iii. **Problem statement(s):** this is a statement of the problem the project is intended to address. It should clearly show the problem in the light of the project research and its contribution to the solution. Ideally it should originate from the way the organization currently performs its function. Each problem should be stated clearly with a briefly explanation on how it arises from the functions be undertaken.
- iv. **Objectives:** objectives should be SMART i.e., specific, measurable, achievable, realistic, time bound. Key words like investigate, develop and analyze should be used to list the objectives



- v. **Scope of the study-** a brief description of the project scope that is what was covered and what was not and why, the geographical diameter that the project is intended to cover.
- vi. **Justification-** student should justify their project by indication the challenge that the project presents, the timeliness of the idea, and the possible advantages that the realization of such a project would bring.
- vii. **Budget and resources:** this should generally address all the envisaged resources that will enable the development of the system to succeed. Key items are hardware, software etc. and any other costs that will be incurred.
- viii. **Project schedule-** brief description of the project work break down structure corresponding to the different stages of software development based on the students preferred development methodology. Use tools such as Gantt charts etc.



Chapter Two

Evaluative Report

- i. Provide an evaluative report about your system.
- ii. Include a use case diagram
- iii. Identify if it is an abstract project or there are any existing similar projects
- iv. If there are existing similar projects intensively analyze at least three of the related works by identifying
 - 1. how they work
 - 2. how your project is different from them
 - 3. gaps in the current systems
 - 4. how your project aims to solve those gaps
- v. Criticize your project to give a report of pros and cons of your project



Chapter Three

Project Methodology

This is the model or framework under which the system was developed

Should describe a systematic and disciplined approach to project design from execution to completion.

State a combination of logically related practices, methods and processes that describe how the project was developed from planning to implementation process

Provide in-depth information about every phase initiated in the development process from planning to completion of the project.

Top 10 software methodologies include:

- i. Agile
- ii. Waterfall
- iii. Feature-Driven Development
- iv. Scrum
- v. Extreme Programming
- vi. Spiral model
- vii. Rapid application Development
- viii. Prototype methodology
- ix. Lean
- x. Joint Application Development



Chapter 4

System analysis and requirement modeling

This chapter should address at least the description of the current systems work and problems they pose.

Have a system data flow diagram

have different sections that display modeling of requirements for each module in the system using tools such as flow charts.

Chapter 5

System Design

This chapter should include the conceptual model and physical model i.e., there should be an **entity relationship diagram** and a **physical database design** (*how the physical tables will look like clearly showing the **primary key**, **foreign keys**, **unique keys**, **data types** etc.*).



Chapter 6

System Implementation

Should address areas such as tools used for coding.

Include some sample input/output screenshots of the system.

Chapter 7

Limitations and Recommendations

- i. Limitations: state some of the problems you encountered in the process of carrying out your project e.g., time factor, finances etc.
- ii. Recommendations: highlight suggestions and recommendations for further improvement in the system.

References

A complete listing of all cited resources (citations) used to create your document.

Formatted using APA citations style

Appendix

Should have the user manual, code sample

