Project Title

Submitted by

.. Name and Roll Number ….

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………………………………

7th Semester

**Month, Year**

Submitted for the partial fulfillment for the degree of Bachelor of Technology in Computer Science and Engineering



Techno Main Salt Lake

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**ACKNOWLEDGEMENT**

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Last but not the least we convey our gratitude to all the teachers for providing us the technical skill that will always remain as our asset and to all non-teaching staff for the gracious hospitality they offered us.

Place: Techno Main Salt Lake

Date:

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Department of Computer Science and Engineering

Techno Main Salt Lake

Kolkata – 700 091

West Bengal, India.

**APPROVAL**

This is to certify that the project report entitled “………………………………….” prepared under my supervision by *…(Names with Roll Numbers)….,* be accepted in partial fulfillment for the degree of Bachelor of Technology in ……………………………………….

It is to be understood that by this approval, the undersigned does not necessarily endorse or approve any statement made, opinion expressed or conclusion drawn thereof, but approves the report only for the purpose for which it has been submitted.

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| --- | --- |
| ………………………………………..…  Signature, Name & Designation of  Internal Guide(s) | …………………………………………  Signature, Name & Designation  of the HOD |
|  |  |
| ………………………………………..…  Signature of External Examiner |  |

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| IntroductionAbstract Briefing should be within 600-800 characters including spaces. For your project, it should have: broad area introduction – 1 line (can be understood by anyone), detailed and specific introduction – 1 or 2 lines (specific to CSE), problem statement – 2 or 3 lines (specific to CSE), solution and expected results - 2 or 3 lines (specific to CSE), project benefits – 1 line (can be understood by anyone). Problem Domain Specify business domain and high level technical domain for the problem you are solving in this project. Glossary Provide a table of glossary. Problem DefinitionScope Briefly state your project scope. Exclusions State the exclusion. Assumptions State the specific assumptions under which your project will work. Related Studies Summarize your study output and establish the project relevance. Project PlanningSoftware Life Cycle Model State the suitable model you have chosen for your project development. Scheduling For Project Planning / schedule, please paste suitably from MS Project. Gantt chart should be showed for major phases with highlighted milestones. Cost Analysis Apply Software Estimation techniques. Requirement AnalysisRequirement Matrix As for Requirement Matrix entries, copy and paste the latest excel with all functional, non-functional and interface requirements and format under this section. Requirement Elaboration For Requirement Elaboration, titles of s5.2.1, 5.2.2 etc. should be with the name of respective requirement areas. As for the content of above sections, it should contain subsections (5.2.1.1, 5.2.1.2 etc) with Requirement IDs and their respective elaborations. The focus will be on: “What is needed in the system?” Requirement IDs should match with the ID column under Requirement Matrix.  Ensure to use appropriate tools for detailed analysis of each requirement area, e.g., use case diagrams, decision tree, decision table, data flow diagrams, state transition diagrams and / or other appropriate tools. Name of Requirement Area 1Name of Requirement Area 2Name of Requirement Area 3 etcDesignTechnical Environment State the hardware, operating system and software. Hierarchy of Modules Provide a diagram. Detailed Design For detailed design of each module, ensure to use appropriate tool, e.g., Component-level design (flowcharts, structure chart, activity diagrams, sequence diagrams etc.), Interface design, Architectural design and / or other appropriate tools as applicable.  While elaborating these sections, you may create subsections (6.3.1.1, 6.3.1.2 etc). The focus will be on: “How the requirement will be implemented in the system?” Design Reference subsection numbers should be matching as stated in Requirement Matrix. Name of Design Module 1Name of Design Module 2Name of Design Module 3 Refer **APPENDIX A – Prototypes** for prototype details. Test Plan For Test Planning, s6.4 should contain the Test Plan in tabular format, where each Test Case should be represented with distinct id, prefixed with “T-<module>-“, where module represents the short code of the respective design module. Test Case numbers should be matching as stated in Requirement Matrix. ConclusionProject Benefits State the project benefits. Future Scope for improvements State the potential improvements that can be worked by future teams. References / Bibliography State all the references you have studied with named link (websites) and page details (for books). APPENDIX A – Prototypes Provide the filtered part of RM showing prototype features. State the detailed steps of compilation, execution and setups. APPENDIX A – Paper publications (optional) State the paper references (if any). |

**Instructions (remove the following after your report is completed):**

1. Ensure to update **Month, Year** on the cover page before submitting this document for 7th Semester final exam.
2. ToC is included in this template. After completing the document, ensure to right-click on ToC  Update field  Update entire table for automatically updating the ToC. Change the font or adjust headings so that TOC can be fitted in a single page.
3. **Citations** should be used for all referred texts using appropriate numbers within square bracket for all mapped references under Section 8: References. You should check any standard journal paper for typical use of citations.
4. Depending on the type of your project, sections can be altered to this generic template.
5. Except under TOC, **Font** Style=”Times New Roman”, Font Size=”12” and Alignment=”Justified” should be uniformly used for the project documentation. Needless to say **spellchecker** should be used.
6. Team should perform reasonable numbers of **proof reading** for avoiding unintentional errors and factual discrepancies before appearing in project viva.
7. **1** spiral bound copy of the project report will have for **submission** at the time of the examination.



Figure 1.1: **Sample figure**

1. For all **figures**, captions should be bold with centrally aligned and should be positioned below the figures, e.g.

Using MS-Word features, insert figures and tables after they are cited in the text so that they can automatically come after inserting / updating TOC.

Use a text box to insert a graphic (which is ideally a 300 dpi TIFF or EPS file, with all fonts embedded) because, in an MS Word document, this method is somewhat more stable than directly inserting a picture.

To have non-visible rules on your frame, use the MSWord “Format” pull-down menu, select Text Box > Colors and Lines to choose No Fill and No Line.

1. For all **tables**, captions should be bold with centrally aligned and should be positioned above the tables, e.g.

Table 1: Sample Table

| Table Head | Table Column Head | | |
| --- | --- | --- | --- |
| Table column subhead | Subhead | Subhead |
| copy | More table copya |  |  |

a. Sample of a Table footnote. (Table footnote)

1. If you have already prepared a **prototype**, indicate the same under Requirement Matrix and Detailed design. Please also specify prototype details under Appendix showing codes, screens, test data, sample output and detailed steps of compilation, execution and setups (if any).
2. If you have published related paper(s) in a standard **journal** / presented in a recognized **conference**, please ensure to refer the same under Section 8: References as well as including communication on your paper(s) acceptance / publishing note under the Appendix section. You should also show appropriate documentation at the time of project viva.