##### **CS 892**

**TERHER**

**by**

CSE\_PROJ\_2016\_13

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| --- | --- |
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Under the Guidance of

Mrs Jayashree Singha(Asst.Professor)

Submitted to the Department of Computer Science and Engineering in partial fulfillment of the requirements for the award of the degree Bachelor of Technology in Computer Science and Engineering .

Year of Submission: 2016



**Siliguri Institute of Technology**

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**DECLARATION**

This is to certify that Report entitled “ TETHER ”which is submitted by me in partial fulfillment of the requirement for the award of degree B.Tech. in **Computer Science Engineering** / **Information Technology** to **Siliguri Institute of Technology** under MAKAUT University, West Bengal. We took the help of other materials in our dissertation which have been properly acknowledged. This report has not been submitted to any other Institute for the award of any other degree.

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**CERTIFICATE**

This is to certify that the project report entitled “TETHER” is

submitted to **Department of Computer Science and Engineering of Siliguri Institute of Technology** in partial fulfilment of the requirement for the award of the degree of **Bachelor of Technology in Computer Science and Engineering** during the academic year **2015-16,** is a bonafide record of the project work carried out by them under my guidance and supervision.

**Project Group Number :** CSE\_PROJ\_2016\_13

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**Signature of the HOD**

Department of Computer Science and Engineering

**---------------------------------------**

**Signature of Project Guide**

Mrs Jayashree Singha(Asst.Professor)

**Acknowledgement**

It is with enthusiasm and learning spirit that we bring out this project synopsis. We also feel that it’s the right opportunity to acknowledge the support and guidance that came in for various quarters during the course of completion of our project till now.

We express our gratitude to the Head of the Department of Computer Science and Engineering, Mr. Alok Basu, for rendering us all facilities and guiding us right through to the end for the successful completion of the work.

We express our gratitude to Ms Jayashree Singha (Asst. Professor), Department of CSE for guiding us through the project report.

We are also obliged to the faculty of the Computer Science and Engineering department, for giving us their timely suggestions in our venture. Above all we express our thanks to Almighty, our parents and friends, for all the blessings and love showered on us. Despite the best efforts put in by us, it is possible that some unintentional errors might have eluded us. We shall acknowledge any for pointing out such errors.

Signature of the group members

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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**ABSTRACT**

We live in a country where we fear the police more than the crook himself and the doctors more than the disease itself! Yet, we claim to be a superpower. The complexities of population, poverty and illiteracy are wearing down the country. We need to start one problem at a time. But to survive everything, one must first make oneself healthy. Then, perhaps, wise and rich.

And that’s what we need. Every Indian’s health secured. A centralized system looking after it all. A prompt team always ready to act. A technical setup to back everything up.

We have a chat system to guide people through first aid, chronic ailments, etc. There is a feature which intelligently offers suggestions to common problems based on several parameters like location, time, etc. A video conferencing portal is also present, to bridge the gap between remote locations and metropolitan doctors. We can even have a database with basic medical records and history, which could serve as a ready reference in cases of emergency.

An ambitious project indeed, but one that can, perhaps, go a long way in saving many lives. A day when no one is alone. No one is unhealthy.

**Abstract:** An abstract should be 250-350 words in English.

Abstract represents a summarized report of the complete project in a very concise and informative format covering main objective and aim of the project, the background information, processes and methods used, and methodologies implemented, followed with a brief conclusion of two to three lines talking about the results and scope of the project.

The entire abstract of a project report should be written in about 250 to 350 words, and therefore, should not exceed any further.

**Main Text:** Candidate is strongly advised to discuss with their supervisor the styleof writing of the project report before writing begins. The Stages of investigation and writing are likely to be according to the nature of the subject and should be worked out in consultation with supervisor. However the text should be divided in the chapters and each chapter, headings and subheadings should be numbered like x.y.z.A.B….. where x stands for chapter number y stands for headings and z,A,B.. etc stands for subsequent subheadings. Chapter heading should be edited at center while heading and subheadings should be edited at left. There should be separated uniformity in headings and subheadings. Main chapter heading should be in capital letters. Each paragraph should be started from the next line of heading and subheadings. The general guidelines for chapters are as follows, references should be quoted by authors name or by S.No.

**Introduction**

**System Analysis**

1. Identification of Need
2. Preliminary Investigation
3. Feasibility Study
4. Project Planning
5. Project Scheduling
6. Software requirement specifications (SRS)
7. Software Engineering Paradigm applied
8. Data model, Control Flow diagrams, State Diagrams/Sequence diagrams ERD’s/ Class Diagrams/CRC Models/Collaboration Diagrams/Use-case Diagrams/Activity Diagrams depending upon your project requirements

**System Design**

1. Modularisation details
2. Data integrity and constraints
3. Database design/Procedural Design/Object Oriented Design
4. User Interface Design

**Coding**

1. **Complete Project Coding is not required.** Include important modules' codes only.
2. Comments and Description
3. Standardization of the coding /Code Efficiency
4. Error handling
5. Parameters calling/passing
6. Validation checks

**Testing**

1. Testing techniques and testing strategies used ***along with the test case designs*** and test reports. **(Don’t include definition and description of testing techniques.)**
2. Debugging and Code improvement

System Security measures (Implementation of security for the project developed)

1. Database/data security
2. Creation of User profiles and access rights

**Cost Estimation of the Project**

**Reports** (sample layouts should be placed)

**PERT Chart, Gantt Chart**

**Conclusion and Recommendations**

The conclusion and recommendations part summarizes the whole report by highlighting all the chapters and their significance and the importance of the project and about the achievements.

The Recommendations are interlinked with conclusion. The conclusion drawn from the project report can be further implemented in the recommendation section to overcome the constraints of the project (i.e. Future scope and further enhancement of the project).

**Referencing and Appendices**

The project report must be considered as a very standard report, and therefore, it should follow all rules, guidelines and protocols of gathering and presenting information, and implementing that and drawing conclusions out of it.

All these activities require appropriate and authentic sources of information and that particular information must be **referenced or cited** according to the copyrights and other guidelines. Therefore, to make the report original, it should be free from **plagiarism** and must follow standard citations and guidelines of citations to represent the reference names.

The appendices of a project report should be written in Times New Roman format of font size 10, and it should contain the information which is appropriate and added to the main text like [Reference No].

**Reference:** All the references should be arranged alphabetically or serially as thecase may be for quoting in text.

**For Journals:**

Kerr, G.T. : Chemistry of Crystalline Aluminositicate; **The J. Phy.** **Chem.**, April 1968, vol.73, no.3 pp1385-1386.

Garside, J. et-al; Industrial crystallization from solution;

**Chem..Engg.Sci**., 1985, vol. 40, no.2, pp. 3-26.

**For books:**

MeCabe and Smith; **Unit Operations in Chemical Engg.**, 4th ed., TMH, pp.812-814.