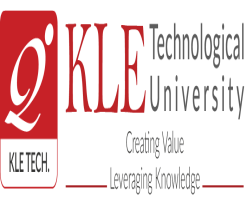
KLE Society's

KLE Technological University



**A Mini Project Report**

**On**

**LANGUAGE TRANSLATION IN AN IMAGE**

*submitted in partial fulfillment of the requirement for the degree of*

**Bachelor of Engineering in**

Computer Science and Engineering

**Submitted By**

### SAHANA PATIL 01FE15BCS164

### SANTRUPTI MUNDINAMANI 01FE15BCS171

SHIFANAAZ MULLA 01FE15BCS181

SHREYA KULKARNI 01FE15BCS186

**Under the guidance of**

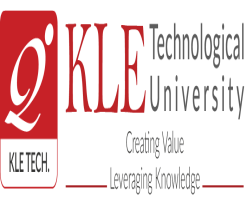
**Asst. Prof. Anand Meti**

SCHOOL OF COMPUTER SCIENCE & ENGINEERING

KLE Society's

KLE Technological University

2017 - 2018



SCHOOL OF COMPUTER SCIENCE & ENGINEERING

**Certificate**

This is to certify that Mini project entitled **“LANGUAGE TRANSLATION IN AN IMAGE”** is a bonafied work carried out by the student team **Ms. Sahana Patil** – SRN: 01FE15BCS164, **Ms. Santrupti Mundinmani** – SRN: 01FE15BCS171, **Ms. Shifanaaz Mulla** – SRN: 01FE15BCS181, **Ms. Shreya Kulkarni** – SRN: 01FE15BCS186 in partial fulfillment of the completion of Fifth semester B. E. in Computer science and Engineering during the year 2017 – 2018. The project report has been approved as it satisfies the academic requirement with respect to the project work prescribed for the above said programme.

|  |  |
| --- | --- |
| **Guide** | **Head of SoCSE** |
| **Asst. Prof. Anand Meti** | **Dr. Meena S. M** |

**External Viva:**

**Name of the Examiners Signature with date**

**1.**

**2.**

**ABSTRACT**

English has a far and wide reach today, the impact of local culture and language remains as strong as ever. With the growth of Internet and communications technology, it is relatively easier to reach audiences that are thousands of miles away purely on the back of effective translation. This in turn has resulted in a need for translation in diverse fields such as education, mass communication, science and technology, literature, tourism, religion, trade and business, etc.

The places with good number of historical places and educational centers, the tourists or the non-regional college students face difficulty in understanding the regional language. Every time it becomes tedious to find a person who can translate them in the desired common language. So this problem can be solved by the Language Translator software. Language Translation Software translates the script from an image.

**ACKNOWLEDGEMENTS**

The satisfaction and euphoria that accompany the successful completion of any task would be incomplete without the mention of a number of individuals whose professional guidance and encouragement helped me in the successful completion of this report work.

We take this opportunity to thank Dr. Ashok Shettar, Vice-chancellor, KLE Tech and to

Dr. Prakash Tewari, Principal, B V Bhoomaraddi College of Engineering and Technology,

Hubli.

We also take this opportunity to thank Dr. Meena S M, Professor and Coordinator, School of Computer Science and Engineering for having provided us academic environment which nurtured our practical skills contributing to the success of our project.

We sincerely thank our guide Asst Prof.Anand Meti, School of Computer Science and Engineering for his guidance, inspiration and wholehearted co-operation during the course of completion.

We sincerely thank Ms. Padmashree Desai, Mr. Mahesh Patil and Mr. Prashant Narayankar School of Computer Science and Engineering for their support, inspiration and wholehearted co-operation during the course of completion.

|  |  |  |
| --- | --- | --- |
| Sahana Patil | - | 01FE15BCS164 |
| Santrupti Mundinamani | - | 01FE15BCS171 |
| Shifanaaz Mulla | - | 01FE15BCS181 |
| Shreya Kukarni | - | 01FE15BCS186 |

Our gratitude will not be complete without thanking the Almighty God, our beloved parents, our seniors and our friends who have been a constant source of blessings and aspirations.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Chapter No.** | **Table of Contents** | | | | | | **Page No.** | |
| **1.** | **Introduction** | | | | | | **1** | |
|  | 1.1 | Over view of the project | | | | | **1** | |
|  | 1.2 | Motivation | | | | | **1** | |
|  | 1.3 | Objectives of the project | | | | | **1** | |
|  | 1.4 | Problem definition | | | | | **1** | |
| **2.** | **Proposed System** | | | | | | **2** | |
|  | 2.1 | Description of proposed system with simple block diagram | | | | | **2** | |
|  | 2.2 | Description of Target users | | | | | **2** | |
|  | 2.3 | Advantages/applications of proposed system | | | | | **2** | |
|  | 2.4 | Scope | | | | | **3** | |
| **3.** | **Software Requirement Specification** | | | | | | **4** | |
|  | 3.1 | Overview of SRS | | | | | **4** | |
|  | 3.2 | Requirement Specifications | | | | | **4** | |
|  |  | 3.2.1 | | Functional Requirements | | | **4** | |
|  |  | 3.2.2 | | Use case diagrams | | | **4** | |
|  |  | 3.2.3 | | Use Case descriptions using scenarios | | | **6** | |
|  |  | 3.2.4 | Nonfunctional Requirements | | | | **7** | |
|  |  |  | | 3.2.4.1 | Ease of use | | **7** | |
|  |  |  | | 3.2.4.2 | Reliability | | **7** | |
|  |  |  | | 3.2.4.3 | Efficiency | | **7** | |
|  |  |  | | 3.2.4.4 | Robustness | | **7** | |
|  | 3.3 | Software and Hardware requirement specifications | | | | | **7** | |
|  | 3.4 | GUI of proposed system | | | | | **8** | |
|  | 3.5 | Acceptance test plan | | | | | **9** | |
| **4** | **System Design** | | | | | | **10** | |
|  | 4.1 | Architecture of the system | | | | **10** | |
|  | 4.2 | Level 0 DFD | | | | **11** | |
|  | 4.3 | Detailed DFD for the proposed system | | | | **12** | |
|  | 4.4 | Class Diagram | | | | **13** | |
|  | 4.5 | Activity diagram | | | | **14** | |
|  | 4.6 | State transition diagram | | | | **15** | |
|  | 4.7 | Data structure used | | | | **15** | |
| **5** | **Implementation** | | | | | **16** | |
|  | 5.1 | Proposed Methodology | | | | **16** | |
|  | 5.2 | Modules | | | | **16** | |
| **6** | **Testing** | | | | | **18** | |
|  | 6.1 | Test plan and test cases | | | | **18** | |
| **7** | **Results & Discussions** | | | | | **19** | |
| **8** | **Conclusion and future scope** | | | | | | **22** | |
| **9** | **References/Bibliography** | | | | | | **23** | |
| **10** | **Appendix** | | | | | | **23** | |
|  | A | Description on Technology used | | | | | **23** | |
|  | B | Explanation on Tools | | | | | **23** | |