



**CHAITANYA BHARATHI
INSTITUTE OF TECHNOLOGY (A)**

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RESEARCH,
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EDUCATION

44
years

A
MINI PROJECT ON
WORD TRACKER
UNDER GUIDANCE OF
MR. U. SAIRAM
ASSISTANT PROFESSOR
IT DEPARTMENT

BY

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-N. MANVIKA(160122737017)

CERTIFICATE

This is to certify that the project work entitled “**Word Tracker**” submitted to CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, in partial fulfillment of the requirements for the completion of Mini Project-I of IV Semester B.E. in Information Technology, during the Academic Year 2023-2024, is a record of original work done by J.Vinathi Reddy(160122737007), M.Sai Varshitha (160122737015) and N.Manvika(160122737017) during the period of study in the Department of IT, CBIT, HYDERABAD, under our guidance.

ACKNOWLEDGEMENTS

We would like to express our heartfelt gratitude to Mr. U. Sairam , our project guide, for his invaluable guidance and constant support, along with his capable instruction and persistent encouragement. We are grateful to our Head of Department, Dr. Rajanikanth Aluvalu, for his steady support and for the provision of every resource required for the completion of this project. We would like to take this opportunity to thank our Principal, Dr. C.V. Narasimhulu, as well as the Management of the Institute, for having designed an excellent learning atmosphere. Our thanks are due to all members of the staff and our lab assistants for providing us with the help required to carry out the groundwork of this project.

ABSTRACT

This project aims to provide an innovative online platform for students enrolled at CBIT (Chaitanya Bharathi Institute of Technology). The platform offers access to a comprehensive collection of academic books spanning across various departments. One of the distinguishing features of this platform is its integrated exploration tool designed to enhance the reading experience. When encountering unfamiliar terms or concepts while perusing the texts, students can simply highlight the word or phrase. In doing so, a contextual tab dynamically appears, furnishing a concise yet informative explanation of the selected term or concept. This feature serves to alleviate comprehension barriers, facilitating a smoother learning process for students. The online book store caters specifically to the academic needs of CBIT students, housing an extensive repository of textbooks covering diverse subjects ranging from engineering to humanities. With the convenience of digital access, students can easily navigate through their required course materials at any time and from anywhere. This digital platform not only mitigates the logistical challenges associated with physical textbooks but also offers an interactive reading experience. Furthermore, the integration of the exploration tool elevates the platform's utility by providing immediate assistance to students encountering unfamiliar terminology or complex concepts within the texts. For instance, if a student encounters a technical jargon or a specialized term while studying, they can simply double-click on the term to summon a succinct yet comprehensive explanation. This feature not only aids in comprehension but also fosters a deeper understanding of the subject matter by providing contextual clarity. By amalgamating accessibility, convenience, and enhanced learning tools, this online book store seeks to empower CBIT students in their academic pursuits. Through seamless access to educational resources and innovative features like the exploration tool, this platform endeavors to cultivate a conducive learning environment conducive to academic excellence.

INTRODUCTION

➤ **Motivation**

Embarking on the project of highlighting words for their meanings within genre fiction, horror, and educational novels offers a rich tapestry of benefits. Not only does this endeavor expand your vocabulary, but it also deepens your comprehension of the texts you engage with. By actively seeking out and defining words within their narrative contexts, you're not merely learning isolated definitions; you're gaining a nuanced understanding of how language shapes storytelling. This process stimulates cognitive functions, reinforcing memory, attention, and reasoning skills. Moreover, integrating educational goals with leisure reading underscores the practical application of learning, making it both enjoyable and sustainable. Through this project, you explore complex themes within literature while fostering personal growth and self-improvement. Sharing your insights and discoveries through a project report contributes to the collective knowledge base and may inspire others to engage in similar pursuits. Ultimately, completing such a project is a celebration of your dedication, curiosity, and passion for learning, reflecting your commitment to intellectual exploration and academic excellence.

➤ **Problem statement**

WORD TRACKER

This project addresses the challenge of vocabulary acquisition by integrating contextual learning into genre fiction, horror, and educational novels. It aims to enhance comprehension and retention by highlighting and defining words within their narrative contexts. The effectiveness of this approach across different genres and reader demographics is underexplored. By investigating its impact on language proficiency, cognitive skills, and reading experience, the project seeks to provide insights into effective pedagogical strategies for promoting lifelong learning and literacy development.

EXISTING SYSTEM

The current system for vocabulary acquisition typically involves traditional methods such as memorization exercises, flashcards, and dictionary definitions. While these methods may be effective to some extent, they often lack engagement and fail to provide meaningful context for learners. Educational initiatives may incorporate vocabulary instruction, but they rarely integrate it with leisure reading or explore the nuanced meanings of words within narrative contexts. As a result, learners may struggle to retain newly acquired vocabulary or apply it effectively in real-world scenarios. The existing system overlooks the potential benefits of integrating contextual learning into leisure reading, especially within genre fiction, horror, and educational novels, thus limiting opportunities for holistic language development and comprehension.

PROPOSED METHODOLOGY

SYSTEM SPECIFICATIONS

- ▶ **Operating System**
- ▶ **Chrome Browser Version**
- ▶ **Hardware Requirements**
- ▶ **Memory Usage**
- ▶ **Internet Connection**
- ▶ **PDF Viewer Compatibility**
- ▶ **User Interface**
- ▶ **Security**

SYSTEM DESIGN:

- User Interface
- Backend
- PDF Viewer
- Word Tracking Feature
- Integration with Wikipedia
- Data Storage
- Security
- User preferences and Settings
- Error Handling and Logging
- Testing and Quality Assurance

LITERATURE SURVEY

- ▶ Online Bookstores
- ▶ Language Processing and Word Meaning Lookup
- ▶ User Experience and Interaction Design
- ▶ E-commerce and Information Retrieval
- ▶ Privacy and Security

DATASETS and ALGORITHMS/ MODELS

➤ Word meanings and synonyms

Link:

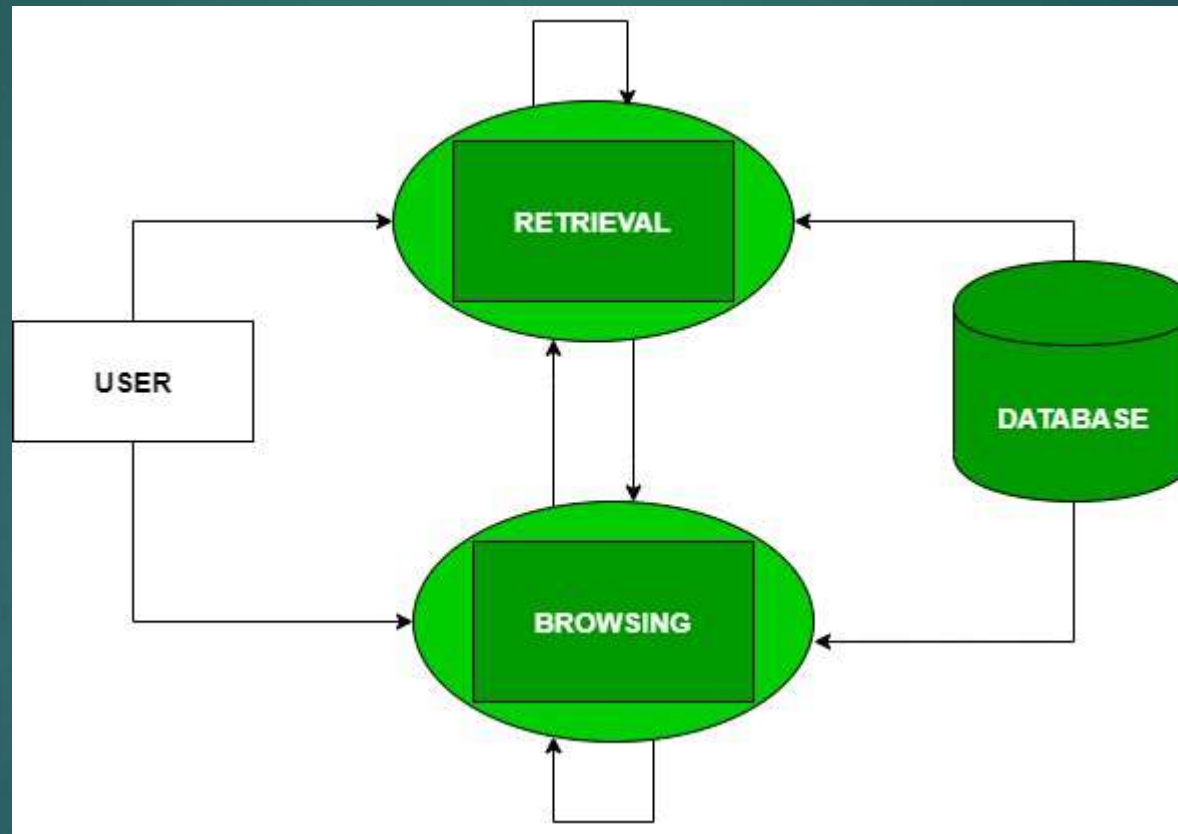
<https://chromewebstore.google.com/detail/wordweb-dictionary-lookup/ilikenhndcpmliapkmmhoimckaokmihm.html>

➤ PDF Books

Books that we have used which are downloaded from chrome are:

- ▶ JAVA
- ▶ OPERATING SYSTEMS
- ▶ PYTHON
- ▶ ELECTRONIC DEVICES AND CIRCUIT THEORY
- ▶ ELECTRONIC DEVICES
- ▶ INTRODUCTION TO MECHANICAL ENGINEERING
- ▶ THERMODYNAMICS

ALGORITHMS OR MODELS



STEPS

- Step 1: Word Embeddings
- Step 2 : Named Entity Recognition (NER)
- Step 3: Text Summarization
- Step 4: Word Sense Disambiguation
- Step 5: PDF Parsing
- Step 6: Information Retrieval

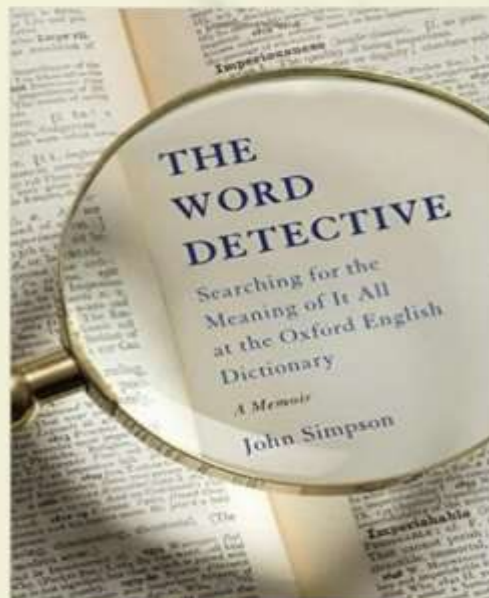
IMPLEMENTATION AND RESULTS

IMPLEMENTATIONS

- ▶ Set Up Development Environment
- ▶ Design User Interface
- ▶ Implement Chrome Extension
- ▶ Integrate PDF Viewer
- ▶ Implement Word Tracking Feature
- ▶ Implement Backend Services (if necessary)
- ▶ Data Storage and Management
- ▶ Testing and Debugging
- ▶ User Documentation and Feedback
- ▶ Deployment

RESULTS

The Bookworm Shack

[Fiction](#)[Novel](#)[Education](#)[Horror](#)[Help](#)

Fiction Books



The Alchemist



To Kill a Mockingbird



The Great Gatsby

Novel Books



The Great Gatsby

by F. Scott Fitzgerald

A classic novel set in the roaring twenties.



To Kill a Mockingbird

by Harper Lee

A story of racial injustice and moral growth.

Education Books

IT

ECE

Mechanical

Horror Books



The Shining

by Stephen King

A terrifying tale of a haunted hotel



Dracula

by Bram Stoker

The classic vampire novel

Contact Us

Customer Support:

Email: support@bookstore.com

Phone: 1-800-123-4567

Hours: Monday - Friday, 9:00 AM - 5:00 PM (EST)

Technical Support:

Email: techsupport@bookstore.com

Hours: 24/7

General Inquiries:

Email: info@bookstore.com

Address: Chaitanya Bharathi Institute Of Technology

book Store

123 Main Street

Hyderabad, Telangana, 506167

India

About the Author

Best-selling author **Herbert Schildt** has written extensively about programming for over three decades and is a leading authority on the Java language. His books have sold millions of copies worldwide and have been translated into all major foreign languages. He is the author of numerous books on Java, including *Java: A Beginner's Guide*, *Herb Schildt's Java Programming Cookbook*, *Introducing JavaFX 8 Programming*, and *Swing: A Beginner's Guide*. He has also written extensively about C, C++, and C#. Although interested in all facets of computing, his primary focus is computer languages. Schildt holds both graduate and undergraduate degrees from the University of Illinois. His website is www.HerbSchildt.com.

About the Technical Editor

Dr. Danny Coward has worked on all editions of the Java platform. He led the definition of Java Servlets into the first version of the Java EE platform and beyond, web services into the Java ME platform, and the strategy and planning for Java SE 7. He founded JavaFX technology and, most recently, designed the largest addition to the Java EE 7 standard, the Java WebSocket API. From coding in Java, to designing APIs with industry experts, to serving for several years as an executive to the Java Community Process, he has a uniquely broad perspective into multiple aspects of Java technology. In addition, he is the author of two books on Java programming: *Java WebSocket Programming* and *Java EE: The Big Picture*. Most recently, he has been applying his knowledge of Java to solving problems in the field of robotics. Dr. Coward holds a bachelor's, master's, and doctorate in mathematics from the University of Oxford.

WordWeb

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← → worked on

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Verb: work on

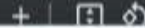
1. To exert effort in order to do, make, or perform something.
"the child worked on the multiplication table until she had it down cold"
2. Shape, form, or improve a material

Nearest Synonyms Type of Types

processed
worked
worked at

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of Java to solving problems in the field of robotics. Dr. Coward holds a bachelor's, master's, and doctorate in mathematics from the University of Oxford.



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CONCLUSION and FUTURE SCOPE

CONCLUSION

The proposed project aims to investigate the effectiveness of integrating contextual vocabulary learning into genre fiction, horror, and educational novels. By highlighting and defining words within their narrative contexts, the project seeks to enhance language proficiency, reading comprehension, and overall engagement with the text.

Through a rigorous experimental design and comprehensive data analysis, the project has provided valuable insights into the potential benefits of this innovative approach to vocabulary acquisition. In conclusion, the proposed project represents a significant step towards advancing our understanding of effective vocabulary acquisition strategies within the context of leisure reading. By building on the findings and exploring future research directions, educators and researchers can continue to innovate and enhance literacy instruction for the benefit of learners worldwide.

FUTURE SCOPE

- Long-term Effects.
- Adaptation for different genres
- Technology Integration
- Cross Cultural Studies
- Teacher Training Programs
- Intervention Optimization

REFERENCES

- ▶ [1] National Reading Panel. (2000). Report of the National Reading Panel: Retrieved from <https://www1.nichd.nih.gov/publications/pubs/nrp/Documents/report.pdf>
- ▶ [2] Reading Rockets. (n.d.). Vocabulary. Retrieved from <https://www.readingrockets.org/teaching/reading101-course/modules/vocabulary/>
- ▶ [3] Vocabulary.com.(n.d.).Learn Words-English Dictionary. Retrieved from <https://www.vocabulary.com/>
- ▶ [4] Scholastic.(n.d.). Vocabulary and Spelling. Retrieved from <https://www.scholastic.com/teachers/teaching-tools/expert-articles/vocabulary-spelling.html>