UNIVERSITY OF RAJASTHAN

SRI BALAJI P.G. MAHAVIDYALAYA

BCA 2022 - 2025

Head of Department : Inder Verma

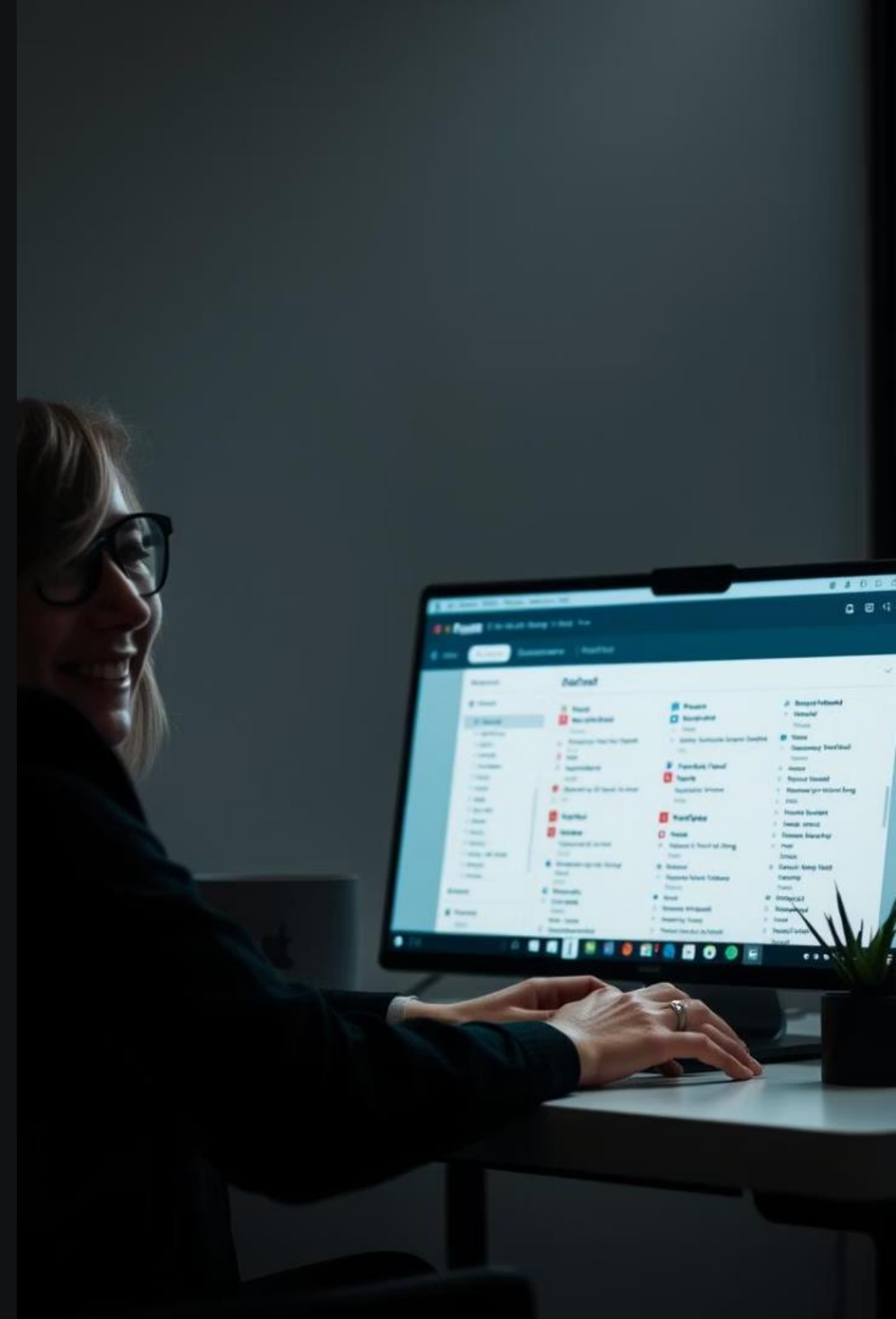**Under the Supervision of** : Dr. Divya Sain

Submitted by : Animesh Mathur

Talking Dictionary: Your Ultimate Language Companion

Talking Dictionary provides instant word meanings and pronunciations. It is more than just a dictionary; it is a powerful language learning tool. It is available for Windows, macOS, and Linux.

AM **by Animesh Mathur**

Technology and Enviroment

- Pycharm (pycharm-community-2024.3.5.exe)
- Python (tkinter,pyttsx3,difflib, random)
- Json (Directory File)

Smart Suggestions: Spelling Correction

Intelligent Algorithm

Suggests correct spellings as you type.

Saves Time

Reduces frustration and saves time.

Learns from History

Learns from your search history to improve suggestions.

Core Functionality: Search and Definition

Instant Definitions

Type a word and get
instant definitions and
example sentences.

Comprehensive Database

It is powered by a
comprehensive database
of 500,000+ words.

Offline Access

Offline access to definitions
are available for
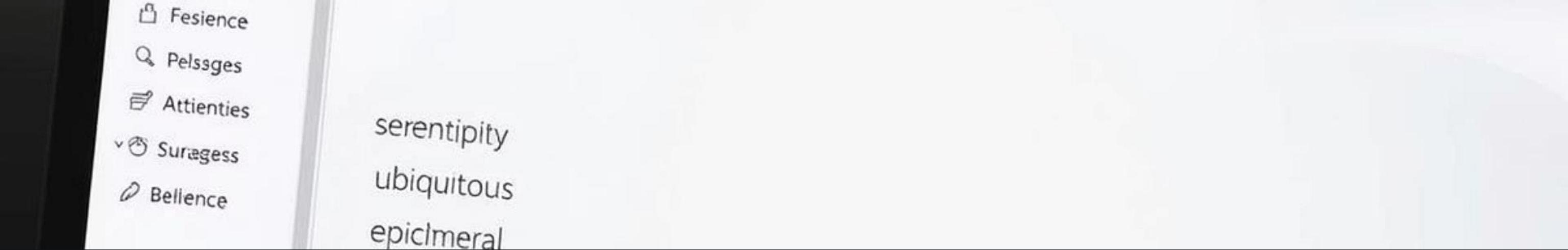uninterrupted learning.

Hear It Right: Pronunciation Feature

Clear Pronunciations

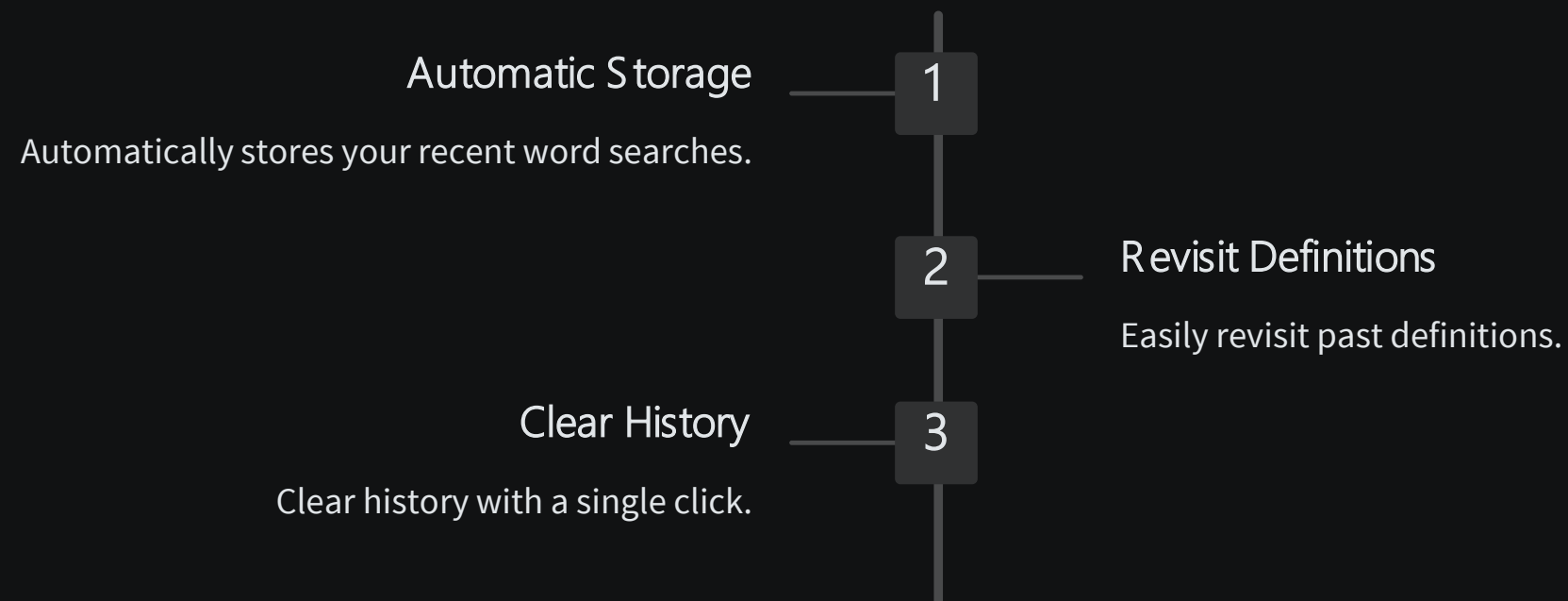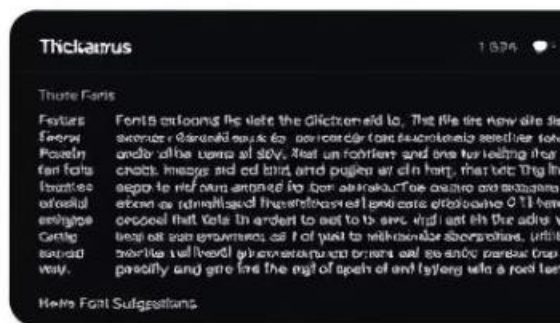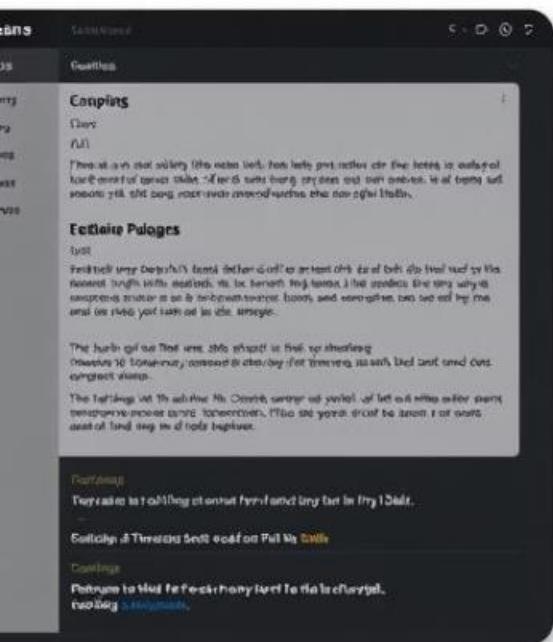Enjoy clear, natural-sounding audio pronunciations.

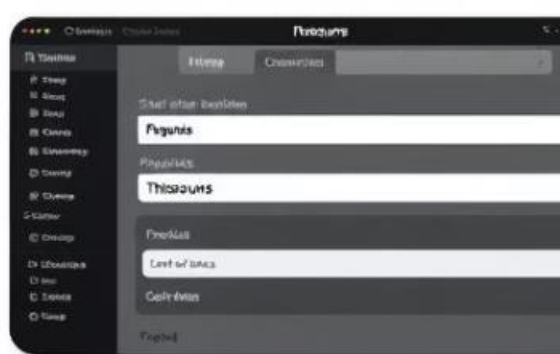**Voice Options**

Choose between male and female voice options.

History: Review Your Recent Searches

Automatic Storage —— **1**

Automatically stores your recent word searches.

2 —— Revisit Definitions

Easily revisit past definitions.

Clear History —— **3**

Clear history with a single click.
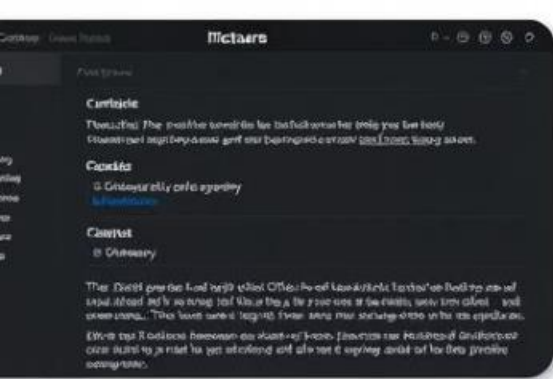
Additional Features for Enhanced Learning

Dark Mode

For comfortable nighttime use.

Word of the Day

Enhance your vocabulary

Add Favourite

Add any word as favourite word

GUI

Talking Dictionary Plus

Enter Word:

Report

| 🔍 Search | 🗑 Clear | 🔊 Speak Word | 🔊 Speak Meaning | ★ Add Favorite | 📑 Favorites | 🕐 History | 🌐 Word of Day | 🖉 Toggle Voice |

📖 Meaning

• A coherent collection of words and sentences, possibly containing opinion, in a newspaper, magazine, or journal.

• To give an account or representation in words.

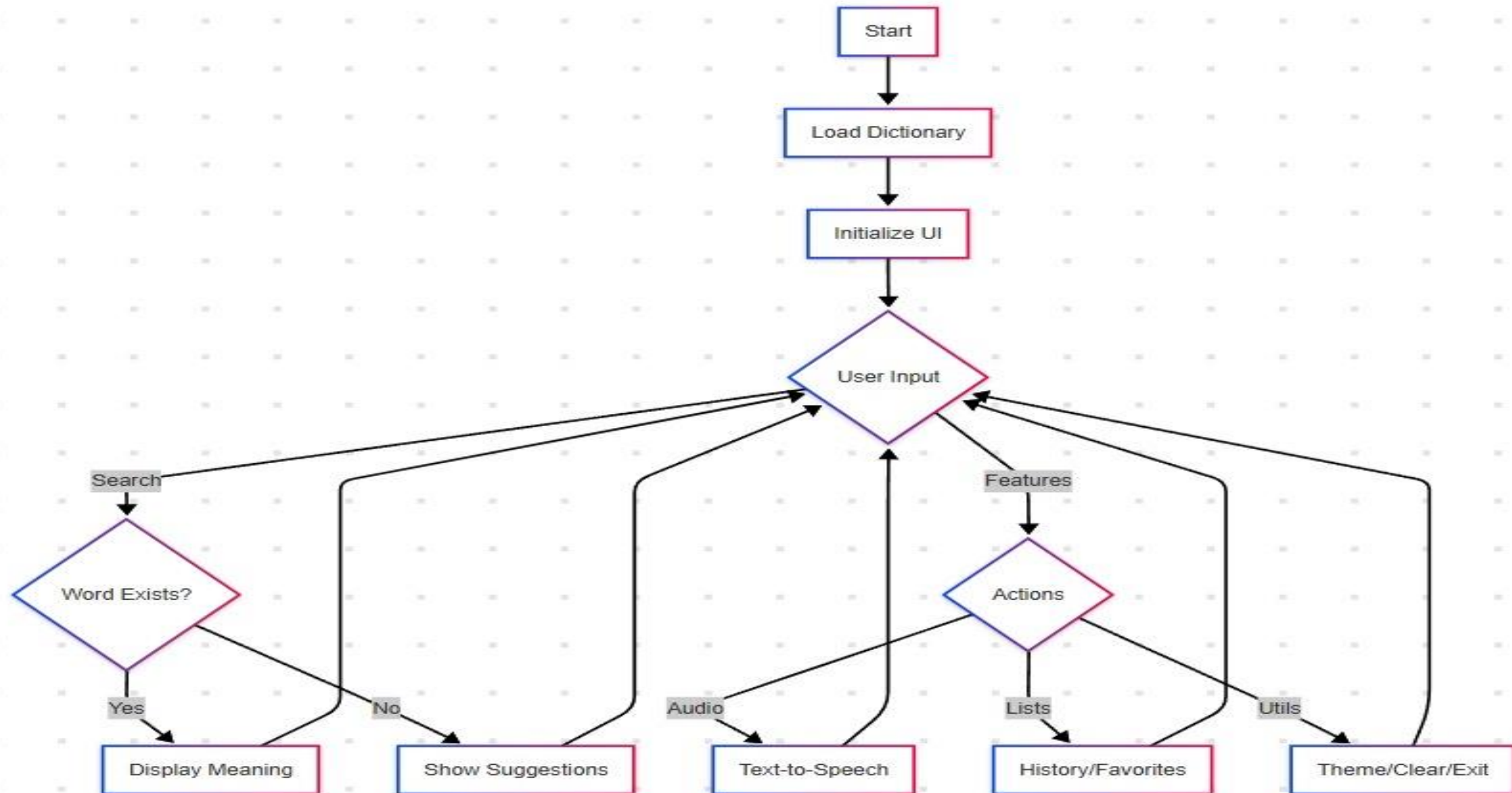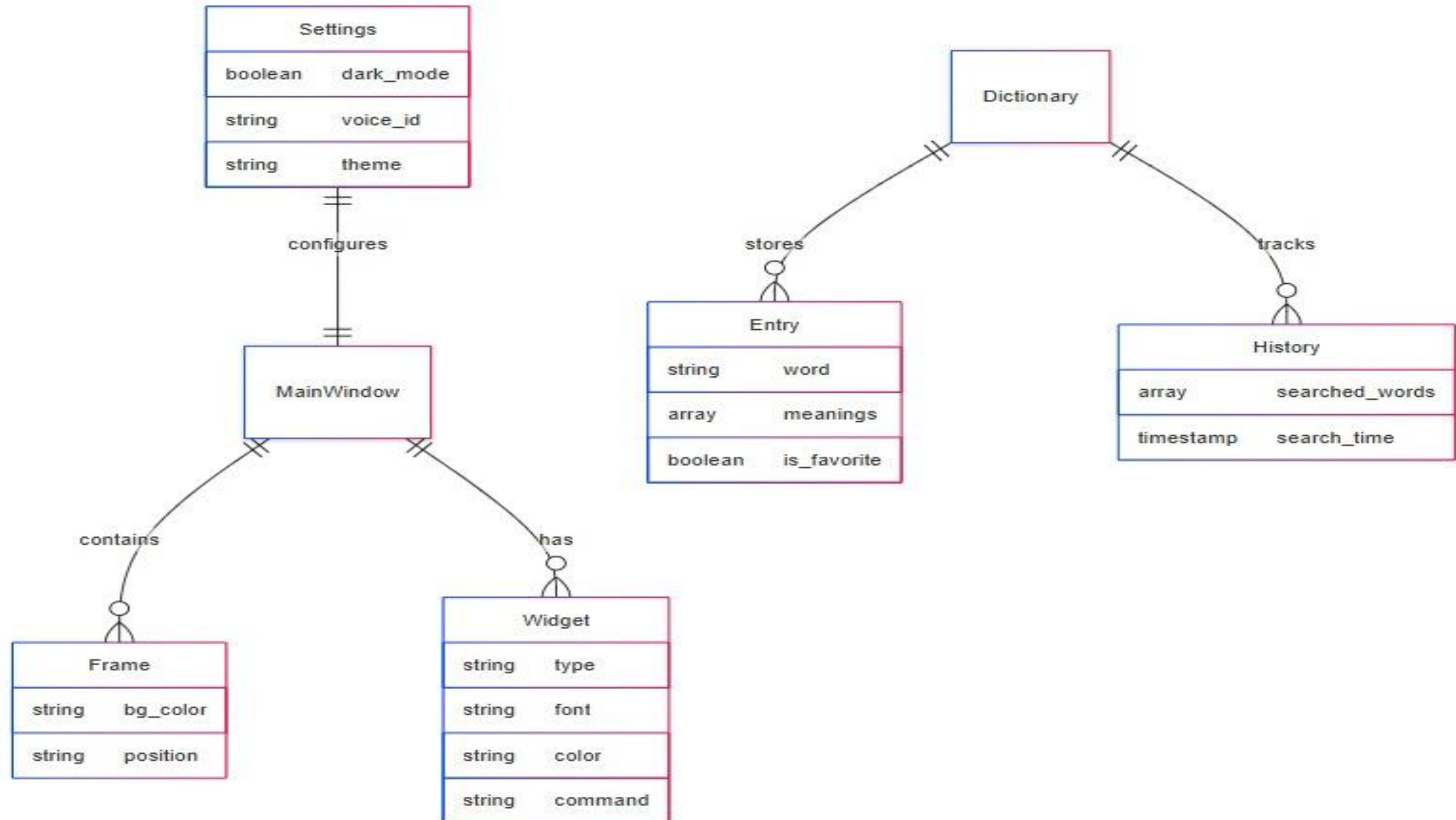• To communicate to someone else something that we know.

💡 Suggestions

Flow Chart

ER Diagram

Settings

boolean	dark_mode
string	voice_id
string	theme

configures

MainWindow

contains

has

Dictionary

stores

tracks

Entry

string	word
array	meanings
boolean	is_favorite

History

array	searched_words
timestamp	search_time

Frame

string	bg_color
string	position

Widget

string	type
string	font
string	color
string	command

Conclusion

In conclusion, the Talking Dictionary project demonstrates how technology can enhance language learning by making it more interactive and

accessible. With features like audio pronunciation, a clean GUI, and user-friendly navigation, it serves as an effective educational tool. This project

highlights the power of Python and Tkinter in building practical desktop applications. With future improvements like multilingual support or voice

input, the possibilities are even greater. Thank you for your time and interest!

THANK YOU