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LANGUAGE LEARNING TOOL

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PROJECT REPORT

INTRODUCTION

LITERATURE REVIEW/BACKGROUND STUDY

METHODOLOGY

IMPLEMENTATION DETAILS

TESTING AND EVALUATION

RESULTS AND DISCUSSION

CONCLUSION

REFERENCES AND APPENDICES

USER MANUAL

INSTALLATION

FEATURES

COMMON TASKS

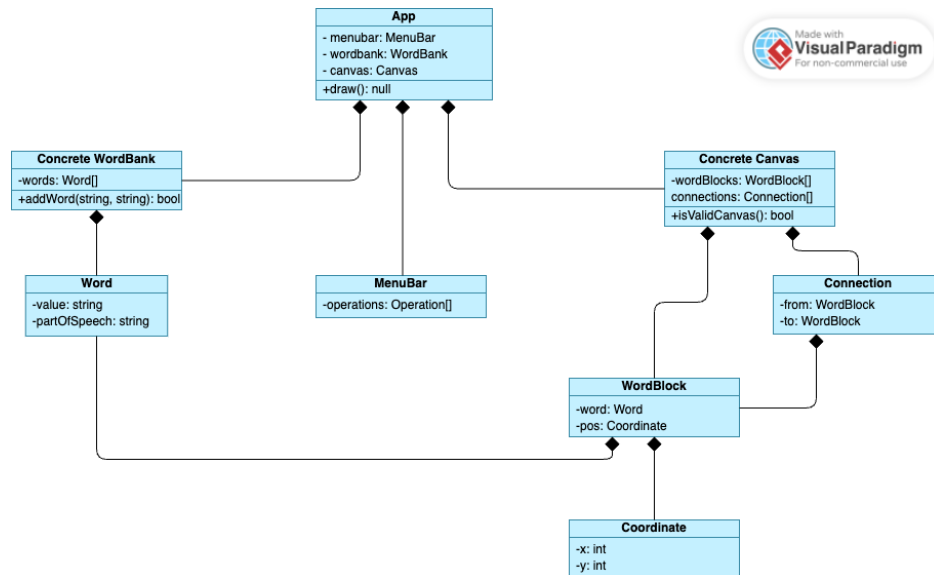
TROUBLESHOOTING

FAQs

SOFTWARE DESIGN MANUAL

ARCHITECTURE OVERVIEW

See the class diagram below.



DESIGN PATTERNS

COMPONENT DESCRIPTIONS

Menu Bar: The menu bar resides at the top of the window. It is the users access point to high level controls. User stories include: "I would like to save my current project", "I would like to export my current project as a PDF", "I would like to export my current project as an image", and "I would like to open an existing project saved to my hard drive".

Word Bank: The word bank contains a list of words that are currently usage, but not yet placed on the canvas, within the current project. User stories include: "I would like to see what words are currently usable in my diagram", "I would like to see what part of speech a word is", and "I would like to add a new word for use in my diagram".

Canvas: The canvas contains current active diagrams. It also contains the language selection tool to switch to another language. Here users can place and order words, as well as draw links that form sentences. User stories include: "I would like to visually arrange certain words from my word bank", "I would like to remove words from the canvas", "I would like to change my current project grammar to a French canvas", and "I would like to draw a relationship between these two words".

DIAGRAMS

USER INTERFACE

The user interface design began with a simple wireframe of a desktop sized window. This window includes all thus far planned components.

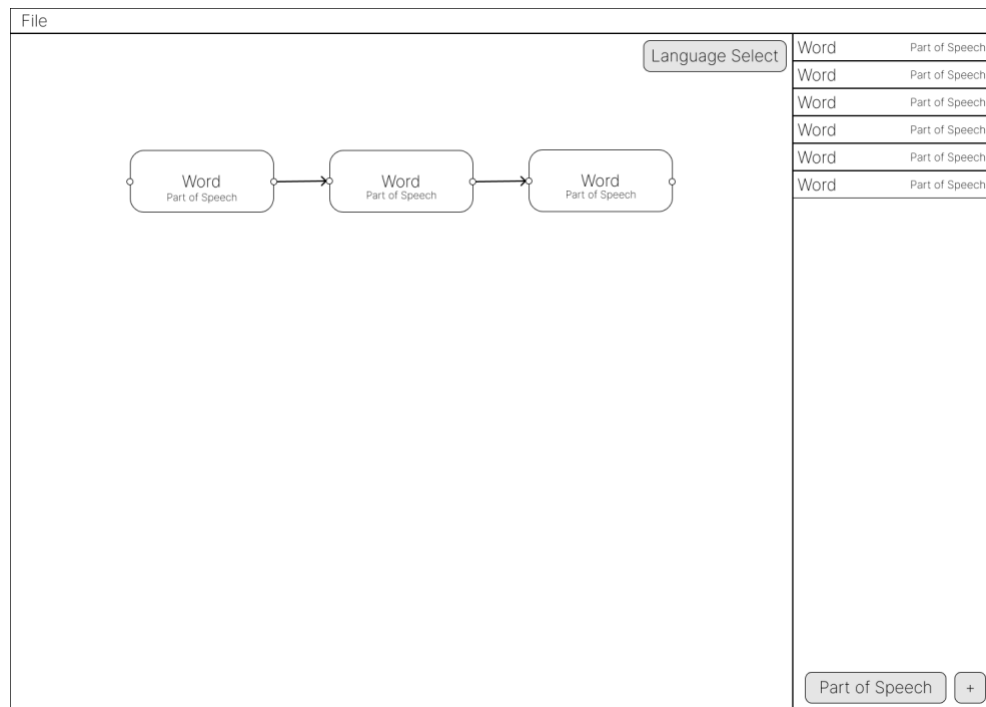


Figure 1

In the top right is the menu bar. The file dropdown menu will include the option to save the current file, open a new file, and export the current file as an image or PDF. The pane on the right-hand side is the word bank. This contains a list of all words present in the current workspace and a drop down to select a part of speech next to a button to add a new instance of that part of speech to the workspace. Users will be able to drag a word out of the word bank and place it on the canvas to the left. The canvas (the left pane) is where currently active words can be placed, arranged, and linked to form sentences. The arrows between words represent a transition between the previous word and the next. The application will notify users when the link is invalid (i.e. when a verb is connected, in sequence, to another verb).

STANDARD AND CONVENTIONS

APPENDICES

CHATGPT LOGS FOR GRADYN NAGLE