Word Finder Web Application

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Purpose of application

- When a student writes an essay for an assignment or a report for a project, they often find at a loss of words while trying to put their thoughts on paper.

- With this application, one can think about the base terms which they have in their mind and find words which resemble them but can fit better with a phrase.

- They can use this webpage to search for complex alternatives to rather simple words, to make their reports look professional.

Environment, frameworks and tools used

- Environment: Node.js for executing script outside the client-side browser.

- Framework: Express for building the web application framework and handle multiple http requests to a specific URL.

- Template tool: Embedded JavaScript to create a template for the application using minimal code.

Environment

- Node.js is a JavaScript runtime environment which can be used to build web applications that can execute a program written in JavaScript

- It is built on Chrome's V8 JavaScript engine which is open source

- NPM(Node Package Manager) in Node.js has packages to solve a wide variety of problems and provide solutions in a faster and efficient way

- Node.js can be used to build applications which can be upscaled or downscaled upon necessity.

Framework and tools

- Express.js is an open-sourced software which is designed to build web-applications.
- Handling multiple requests for specific URLs is made easier with Express.js.
- Templating engines like Embedded Java Script are supported by Express.
- Data can be inputted onto the HTML on client-side to produce the resultant HTML.

Logic of the application

- When a user inputs a word, first the word's meaning is looked at using Wiktionary API.

- Using the API, words which have similar meanings are obtained and results from different parts of speech are returned to the user.

Thank You!