

Bachelor's Thesis

Typinator: Browser Plugin for Automatic Text Expansion

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The company *ergonis* distributes the Mac application "Typinator", a tool that enables users to define abbreviations together with a corresponding text expansion. These text expansions are then automatically applied system-wide while typing. Due to platform restrictions, the tool is not available on Windows or Linux.

The goal of this bachelor thesis is the technical evaluation and development of a prototype, porting Typinator to a browser plugin. Following questions must be investigated as part of this thesis, and suitable solutions must be implemented:

- Evaluation of technologies and methods to develop browser plugins
- Check cross-browser support to provide Typinator to as many browsers as possible with as few browser-specific changes as possible
 - Focus on Chrome, Firefox and Edge
- What can a browser extension do / is a browser extension allowed to do and where are the barriers of capabilities that are needed for Typinator's features?
- Implementation of text expansion in the browser environment based on a set of pre-defined abbreviations.
- (nice to have): Definition of abbreviations and text expansions directly within the plugin

Modalities:

The progress of the project should be discussed at least every two weeks with the *ergonis* supervisor and at least once per month with the advisor. A time schedule and a milestone plan must be set up within the first 3 weeks and discussed with the advisor and the supervisors. It should be continuously refined and monitored to make sure that the thesis will be completed in time. The final version of the thesis must be submitted not later than 28.08.2022.