JKU

**JOHANNES KEPLER
UNIVERSITY LINZ**

Bachelor's Thesis
Typinator: Windows Application 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 Windows. Following questions must be investigated as part of this thesis, and suitable solutions must be implemented:

- Evaluation of technologies and methods for making Typinator available as a Windows application
  - Investigation of technological limits and possibilities in Windows
  - Evaluate which of Typinators current features are possible in Windows and if there are any limitations within different groups of applications (Browsers, Systray Applications, Native Windows Applications, …)
- Develop and use a shared code-base with other platform-specific versions of Typinator for commonly used tasks and features
- Implementation of text expansion in the Windows environment based on a set of pre-defined abbreviations.
- (nice to have): Prototype of a management view that offers the functionality of defining and managing abbreviations

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.