Introduction
Complex structural dynamic models of machine tools have proven to be very useful for condition monitoring, process planning and stability analysis. However, their parametrization is still a challenging task which requires a comprehensive set of reference measurements, identification algorithms, and an elaborate identification strategy.

Objective
In the context of this IDP, a software is to be developed which demonstrates the parameter identification process for research, education, and marketing purposes. For this, a frontend is to be designed which seamlessly integrates an already existing machine tool simulation backend in Python and other backends (to be also developed here) for data generation and visualization, sensitivity analysis, and parameter optimization.

Requirements
- experience in frontend development
- basic understanding of Python
- fluent use of English

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