Cloud development of a data-based real estate valuation tool

Background
Real estate valuation has so far been carried out using cumbersome and lengthy processes. The appraisers spend more than 50% of their time gathering information about the market and the location of the property, formatting tables and diagrams and writing a 100-page report with the same content. The digitization of these processes leads to enormous time savings. Therefore, the aim of this IDP is to develop an application that automates the process of data-based real estate valuation.

Task
In this project you will work on the following tasks:

- Identification and selection of suitable tools, programming languages and frameworks (e.g. tools from AWS; Python, Java; etc.)
- Development of a data-based real estate valuation tool:
  - Obtain data from structured and unstructured data sources.
  - Development of functionalities and algorithms to evaluate real estate.
  - Processing and saving the data in a suitable database.
- Cooperation and close coordination with other IDPs, which collect specific data via web scraping or develop a frontend.
Requirements

- Understanding of back-end developments.
- Experience with databases.
- Systematic and independent way of working and the ability to work in a team.

Contact

Please do not hesitate to contact me if you have any questions regarding this project:

Dr.-Ing. Christina Mauer  
Tel.: +49 89 289-22483  
E-Mail: c.mauer@tum.de

M.Sc. Maximilian Reiser  
Tel.: +49 89 289-22483  
E-Mail: m.reiser@tum.de