AMOS WS21/22 Project 1: Geo Data Search

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| Project name | Geo Data Search |
| Project mission | The project mission is to achieve an interpretation of buzzword user queries in German through a web interface concerning location, length, height (difference) of public routes, places and regions. Multiple results, routes or places, matching the user query as close as possible will be displayed in a list as well as in a map. The software should be usable from desktop web browsers and be intuitive - an option to get examples for possible inputs in the web interface will be provided nevertheless. |
| Industry partner | IAV GmbH |
| Team logo |  |
| Project summary | Geo Data Search is a browser app that enables users to search for routes and places specified by geographical properties, like height of elevations and route lengths.  The user-friendly interface allows processing of queries expressed with natural language. The results are shown on a map and can also be exported via the downloadable KML file.  Moreover, the app comes with features, including finding charging stations on routes, as well as cost-saving route planning by avoiding toll roads.  The project is constructed separately into its different purposes: Frontend, Backend and Natural Language Processing. Due to usage of docker compose, the containers can be individually horizontally scaled depending on the load and the resource consumption of a particular service.  Using GitHub actions, the project provides a CI with automatic tests that are run on each pull request in the corresponding containers. |
| Project illustration |  |
| Team photo |  |
| Project repository | <https://github.com/amosproj/amos2021ws01-geo-data-search> |
| Additional Information | See <https://github.com/amosproj/amos2021ws01-geo-data-search/tree/main/Documentation/images/Project%20Summary> for full size project illustrations |