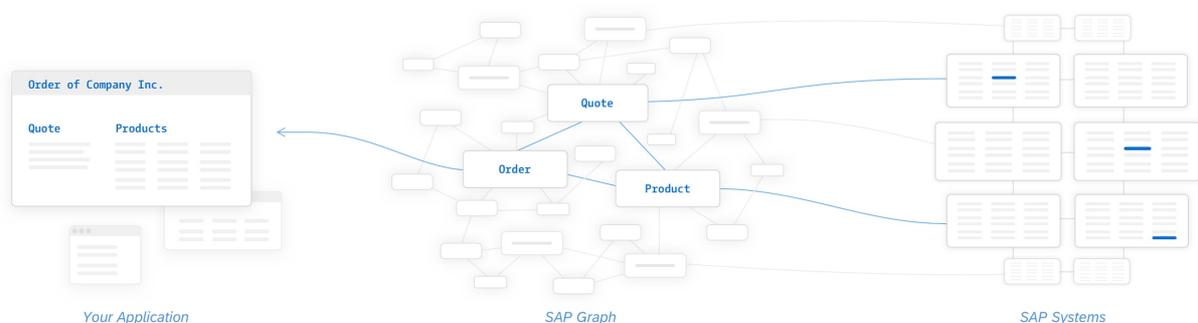


Reinvent the Development Experience for the Intelligent Enterprise

Motivation

SAP Graph (<https://graph.sap>) allows a fundamentally different access to distributed Enterprise data by making the complexity of modern enterprise software landscapes easily consumable for developers. Instead of having to program directly against the APIs of the multiple systems (human resources, customer relationship management, enterprise resource planning, etc.) comprising these landscapes, developers only interact with a graph of well-defined entities (WorkforcePerson, SalesOrder, Product, etc.) to query and alter data. SAP Graph internally takes care of routing these requests to the right target systems in the required formats. By that, developing applications on top of such enterprise landscapes will become much easier.



Goal

While the approach of SAP Graph already provides drastic simplification for developers, the goal of this bachelor project is to assess the current experience for developers, find further potentials for improvement, and implement them prototypically based on real-world use cases. For example, the team could optimize the current navigation towards an intuitive graph-like approach on business entities and their endpoints. Further, the integration into different development environments (e.g., through IDE plugins) or improved interaction with the SAP Graph APIs via GraphQL are potential improvements the team could tackle. But as stated earlier, you are also encouraged to proactively propose improvements that you and the team will jointly work on.

Setting

This Bachelor's project will be a joint effort of HPI and the SAP Graph development team. We expect a close collaboration between both parties. Project participants will regularly visit the Innovation Center Potsdam offices to facilitate proper information exchange in both directions. The team will have access to state-of-the-art IT resources provided by HPI.

Skills

Prior knowledge and experiences with business applications and SAP are not required. However, general experience with the development of applications using public APIs (e.g. mobile apps, web applications) is desirable. Motivation to work as a team, communicate results, and dive deep into existing technology is a must. Programming experiences with front-end frameworks (especially React), JavaScript, SQL, or Python are beneficial.

Contact

For questions and details visit us in the Villa, 2nd floor on Campus II or write us an email:

- Stefan Halfpap (stefan.halfpap@hpi.de) and Günter Hesse (Guenter.Hesse@hpi.de)
- Dr. Michael Perscheid (michael.perscheid@hpi.de)