

## Python-based Interface Integration in Connector Framework

WEBSALE creates online shops – with passion. For more than 25 years, we have been helping our customers succeed in e-commerce. As pioneers, we established the first cloud-based online shops in Germany. With our combined offering of e-commerce software, including support, hosting, and our own agency, we ensure functional e-commerce processes and support the growth of our customers.

### Task:

To further optimize our platform, we have developed an interface that integrates order data from external ERP systems into our systems. This interface was implemented in C. Your task is to encapsulate this interface into our existing Connector Framework, which is written in Python. This will facilitate the integration of the interface into our infrastructure and improve reusability.

### Tasks and Milestones:

- **Analysis of the Existing Implementation:**
  - Examine the existing interface implemented in C.
  - Understand the functionality and data flows within the interface, which integrates data such as deliveries, returns, exchanges, and warehouse cancellations from external ERP systems.
- **Design the Encapsulation:**
  - Design a suitable encapsulation of the interface into the Python-based Connector Framework.
  - Define the interfaces and APIs required for integration.
- **Implementation of the Encapsulation:**
  - Develop the encapsulation components in Python that embed the C-based interface into the Connector Framework.
  - Ensure seamless integration and communication between the C and Python components.
- **Integration Tests:**
  - Conduct tests to validate the encapsulation and integration of the interface.
  - Ensure that the interface is correctly integrated into the Connector Framework and meets all requirements.
- **Documentation:**
  - Create comprehensive documentation of the implementation and integration.
  - Describe the interfaces, APIs, and functionality of the encapsulation.
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### Requirements:

- Basic knowledge of C and Python, as well as experience in software development.
- Experience in developing and integrating interfaces and APIs.
- Knowledge of modern software architectures and frameworks.
- Analytical skills and a structured approach to work.

**What You Can Expect from Us**

You will be assigned to one of our developers who will take care of you during the semester via regular 1-to-1 meetings (online or offline) and support you in the project. We are very flexible in terms of working time and, of course, will stay within the boundaries of the ECTS limit of the IDP.

**What We Expect from You**

If you can work independently and want to do something hands-on, then we are your partner! Besides the regular meetings, you will have complete freedom in terms of time management. It's your project!

**Contact Information**

At WEBSALE, your performance and personality matter. We value diversity and encourage applicants from all walks of life to apply.

Do you have questions? Feel free to contact Vera by phone at +49 911 6322 1629. Are you interested? Then apply now at [Bewerbung@websale.de](mailto:Bewerbung@websale.de). We look forward to getting to know you!