

## Call for Practical Research Work: FinTech Data Platform for Digital Invoice Management

### Background:

The financial system is increasingly being digitized. Financial transactions between buyers and sellers in the B2B sector are conducted almost entirely digitally. However, the invoice, which typically precedes a financial transaction in the B2B sector, is still predominantly transmitted analogously or as a PDF from the seller to the customer. Fragmented information channels (by mail, email, etc.) are used for this purpose. As a result, the customer faces the challenge of consolidating the invoices in order to verify them and use them for subsequent steps (payment, tax declaration, etc.).

### Challenge:

The legislature is actively addressing this issue. As of January 1, 2025, e-invoicing in XML format will become mandatory in the B2B sector. Sellers and invoice issuers must be able to issue e-invoices, and customers must be able to receive them. Currently, there is a lack of a standardized data platform that both sellers and customers can use to transmit and manage invoices.

### Objective of the Call:

This call aims to scientifically explore one of the following questions within the framework of a bachelor's or master's thesis:

Research Questions	Supervising Chair
1 What requirements do users (sellers and customers) place on the platform's frontend, and what features can meet these requirements?	Digital Innovation and Entrepreneurship (Prof. Haag)
2 How should a cloud-based data platform's frontend be designed to solve the aforementioned problem (e.g., file import, HTML code, etc.)?	Databases and Information Systems (Prof. Conrad)
3 How should a cloud-based data platform's backend be designed to solve the aforementioned problem (e.g., selection of suitable databases, design of a DB schema, CI/CD, etc.)?	Databases and Information Systems (Prof. Conrad)
4 What is the purchasing power for the data platform, and through which pricing and revenue models could the platform be marketed?	Digital Innovation and Entrepreneurship (Prof. Haag)

### Student Profile:

- Skills or deep interest in the following areas: IT, programming, FinTech, artificial intelligence, cloud systems, qualitative or quantitative research
- Work can be written in English or German
- The research work must include either a practical or scientific component

### Details:

- The call is issued on behalf of a startup currently in the pre-founding phase
- Start date: from **15.07.2024**
- Contact:
  - Prof. Steffi Haag ([Steffi.Haag@hhu.de](mailto:Steffi.Haag@hhu.de))
  - Prof. Stefan Conrad ([Stefan.Conrad@uni-duesseldorf.de](mailto:Stefan.Conrad@uni-duesseldorf.de))
  - Laurenz Krauskopf, Projektleitung ([lk@ad-va.com](mailto:lk@ad-va.com))

We look forward to your application!