

## Demonstration



The solution is to be demonstrated using a sample application:

- **Travel Expense Report (browser-based or front-/backend application)**
- **Guidelines for using the provided documents within the application:**
  - Are the submitted documents consistent (e.g., correct dates) and approved for reimbursement (e.g., VAT stated)?
  - Do the entries comply with the applicable travel expense policy? (see *Reisekostenrichtlinie\_Hackbay.pdf*)
  - If there are discrepancies or errors, the application should ideally provide suggestions for resolution.

## More Information



Here's what your code needs to bring to the table:

- **Clean & Sustainable Code:**  
Code should be well-structured, readable, and maintainable. Use loops and control structures efficiently to ensure good performance and long-term adaptability. Energy efficiency is also key—write code that respects system resources and supports sustainable operation.
- **It's Gotta Work (Properly):**  
Your code shouldn't just run—it needs to deliver. It should be tested, meet user needs, and not be just some clever script that breaks when touched. Every function should do something real and useful.
- **Stick to the Compliance Matrix:**  
Don't go wild with random open-source libs. Follow company policy on what's allowed—check the *License\_Matrix.pdf* before pulling stuff in.



find all the documents here

Docs you've got to work with:



- **License\_Matrix.pdf**
- **Technische\_Vorgaben.pdf**
- **Bahnticket\_Nbg\_Pb.pdf**
- **Bahnticket\_Pb\_Nbg.pdf**
- **Hotelrechnung\_Pb.pdf**
- **Hotelrechnung\_Hbf\_Hotel.pdf**
- **Taxirechnung\_Hotel\_Hbf.pdf**
- **Reisekostenrichtlinie\_Hackbay.pdf**

**We'll email you the documents so you can work with them.**

## More Information



Here's what your code needs to bring to the table:

- **Respect Technical Guidelines (TLL):**  
All components must comply with the company's technical standards as outlined in *Technische\_Vorgaben.pdf*. These guidelines are mandatory and must be followed during implementation.
- **Code Documentation:**  
Your code must be properly documented to ensure maintainability and avoid technical debt. Documentation should be clear enough that others—or your future self—can understand, maintain, or extend the code without unnecessary reverse engineering.

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## What's our motivation for joining HACK|BAY?

### Why are we participating in the HACK|BAY?



#### AI at DATEV

We're already using AI to help devs write code.



#### Policies

We've got a bunch of dev rules that need to be followed and automated



#### Challenge

How can we streamline the repetitive stuff and let devs dive into the work they love?

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"You'd be surprised: most devs spend just 1 hour a day into real coding, and the rest dealing with all the usual stuff."

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### Our Goal at HACK|BAY?

In big corporates, writing code often means fighting off a swarm of rules, approvals, and compliance zombies.

What if AI could deal with all that, and we could just... code?"

- Build a smart AI sidekick that actually helps you code smarter, not harder
- Go beyond just auto-completing code – think real workflow support
- Handle the boring bits: internal rules, open-source policies, doc writing
- Cut down tech debt before it even starts
- Think Copilot – but supercharged and tailored to real-world dev life

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## Technical Solution Approach

### Technology

### The solution should be developed by using AI technology

"How the solution is supposed to look like is up to you. Create a working prototype that increases productivity, optimizes code quality and minimizes computational effort, contributing to a more efficient development process. Choose your stack – Java, JavaScript or Python – and let AI do the work."

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