PT U R — Rheinland-Pfälzische Technische Universität Kaiserslautern Landau

smart data & knowledge services

App & Web Development: Trustworthy AI for Medical Imaging

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You are tasked to develop a web application using React that allows users to track their personal expenses. The application should have a **simple but good looking** and **effective user interface**.

The application should also come with the following features:

1. Expense Management:
    *   Users can add, edit, and delete expense and income records (e.g., amount, category, date, description).
    *   Users can upload photos of invoices / receipts to an expense / income record with the ability to crop the image after upload.
2. Navigation:
    *   Include features for filtering expenses by category and date.
    *   *[optional]* Add a ribbon at the bottom to switch to an aggregated statistics view and implement as many features, as you find relevant for a user (like monthly balance, etc.).

Deliverables

1. A functional web application meeting the requirements above.
2. A README file explaining:
    *   How to set up and run the application.
    *   The decisions leading to the features and the architecture of the solution.
    *   Any challenges faced during implementation.
3. Answer the following questions:
    *   What do you think are the most important aspects when developing such an application for a customer (e.g. UX, Performance, …)? Describe the (to you) two most important aspects in about 100 words each.
    *   If you had to choose an alternative technology stack for this project, what would it be and why?
    *   If given more time or resources, what innovative features or improvements would you add to enhance the application further?

Note:

Please submit ready-to-run code, as well as a README file or a PDF that documents your solution and answers the questions above. Please submit the solution to Adriano.Lucieri@dfki.de before the deadline. If some features are missing, but were planned, reflect that in the answers by describing the functionality as well as the challenges faced.