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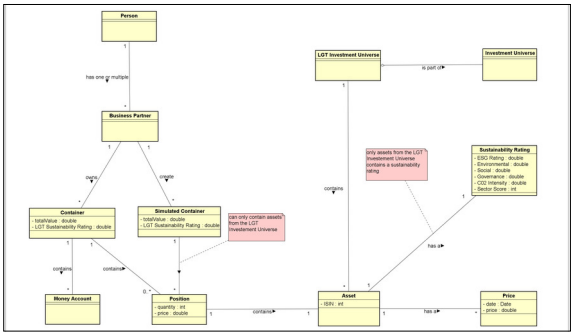
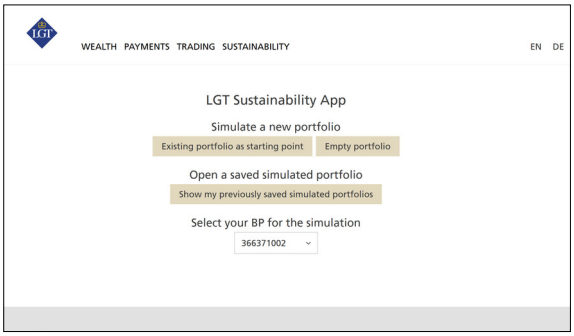
Subject Area	Internet-Technologien und -Anwendungen
Project Partner	LGT Financial Services AG, Vaduz, Liechtenstein

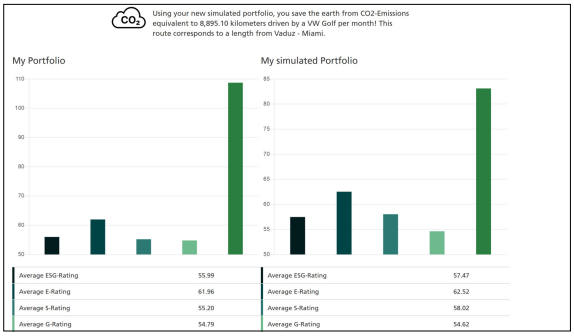
Sustainable Investment Simulation



Domain Model - Sustainable Investment Simulation
Own presentment



Sustainability App Entry
Own presentment



Portfolio Comparison - Sustainability View
Own presentment

Introduction: The topic of sustainability is currently on everyone's minds and is becoming increasingly important. Our industry partner, LGT Bank from Liechtenstein, has long been aware of this fact, and sustainability is a key priority for the company. The next step is to generate added value for the client by showing opportunities for sustainable investment. The goal of this bachelor thesis is the creation of a sustainability app prototype. This app should offer the customer the possibility to create simulated portfolios and compare them with their own portfolios. The comparison should include sustainability aspects on the one hand and compare financial performance on the other. This is intended to show the bank client that he can make his portfolio more sustainable without achieving a lower performance. The developed solution is to be integrated into the existing E-Banking product "SmartBanking".

Approach: As project method Scrum + Unified Process has been chosen. This is a hybrid between the two methods Scrum and Unified Process. The reason for choosing this approach is that Unified Process defines artifacts ideally suited for the requirements specification.
Initially, the requirements had to be specified and the problem domain had to be precisely understood. After the requirements were sufficiently defined and the customers needs were implemented in the requirements specification, user interface sketches were created. These sketches were presented to the customer and their feedback was validated and integrated. Thereafter, the architecture of the application was specified. It had to be ensured that the app was compatible with the system landscape of LGT Bank. However, it also had to be ensured that autonomous development outside the bank was possible.

Result: A platform with three web applications has been created. The first step was to create a mock service. Using this service the provided data was made available through a REST-API. A backend and a frontend were developed for the Sustainability App. The frontend was developed as a feature module for the E-Banking solution SmartBanking. The app allows users to create simulated portfolios based on their own portfolios or an empty portfolio. Users can assign and remove assets from the LGT Investment Universe to their simulated portfolio. The simulated portfolios can be visually compared side by side with the real portfolios