# Project Software Engineering (DLMCSPSE01\_CF)

The goal of this project is to develop an AI based nutritional assistant. This assistant should help users to improve their diet and overall health.

The assistant targets people how struggle with healthy diets because they lack the right information or people already have the basic knowledge but need special advise in their daily life. Since this is a digital offer, the early adopters are digitally savvy and probably young people.

## Risks

A digital offer and the associated privacy concerns with those might scare off users. Especially because the assistant needs personal information about the user, to be able to support them with personalized advise.

As outlined before, the goal is to use an AI to answer the questions to the user. The output of those generative models can only be controlled in a limited fashion. The risk is, that the AI provide some negative advice to a user.

## Software development methodology

This project will use the lean software development methodology. It focuses on a value delivery to the target audience and is well suited for solo-developer project, because it has no predefined roles or processes.

## Requirements

In alignment with the lean development process, a continuous integration and deployment pipeline is required for a continuously flow of new items to the user. A backend server is required as a proxy to the OpenAI assistant API, but also to implement the tools for the assistant. The assistant should be able to store generated healthy recipes for later use. As an interface to the user, an App should be develop based on Kotlin Multiplatform. This will allow the release to Android and iOS based on the same code base.

