

## Transform your cooking recipe photos into perfect, editable digital recipes

### Students

Leonardo Ravani

**Introduction:** The Smarteating application is a web application that allows users to manage recipes in a smart way. Among its other features, the application is capable of converting photos of recipes to text and suggesting meal plans depending on the user's nutritional needs. The application, however, lacks essential user-centric features and an intuitive user experience.

Simon Peier

The objective of the project is to survey and implement additional features that improve the usability of the Smart Eating application. These features include editing, saving, and sharing recipes, user authentication and user management as well as a new dashboard. Furthermore, the user interface (UI) should be improved to make the application more user-friendly and appealing.

Tobias Kistler

**Approach:** To approach said features, widespread software practices are applied. Requirements engineering is conducted via user research. The problem domain is analyzed to determine which parts of the application need modification and extension. After understanding how the application works and analysing the UI, mockups are created. Furthermore, additional features are discussed and planned for during the elaboration phase.

The smart eating web application offers a sophisticated and intricate structure. While documentation is limited, it presents an excellent opportunity for collaboration, encouraging productive discussions and meetings with advisors to ensure smooth and informed implementation.

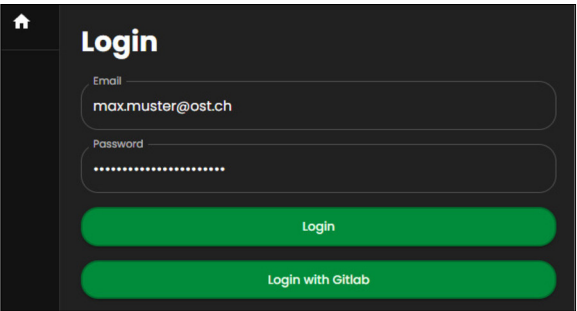
**Result:** The possibility to log in/register through GitLab is added to the existing login window. The dashboard is also added along with mock data. User-Roles are added to the data structure and admin-users are now able to manage other users of the application in the newly added admin panel. Furthermore, it is now possible to edit the recipe information that is extracted during the analysis of a recipe. The general UI appearance is redesigned through many changes including the shape of components, the colours, the general layout, etc. Finally, these changes are all verified by an intricate usability test to ensure that the changes truly improve the user experience and overall appearance.

### Advisors

Prof. Dr. Mitra  
Purandare, Clemens  
Meier

Subject Area  
Software, Application  
Design

Login with added functionality (OAuth via Gitlab)  
Own presentment



Dashboard with mockup recipes  
Own presentment

