**CalorieTracker WebApp**

The research conducted is a Java web app to track the nutrient intake of a person, namely calories. The whole project can be found here: <https://github.com/PascalVisser/CalorieCalculator_Webapp>

**Resources**

The used resources are all pieces of software for web applications. The two main software’s that are used are IDE *IntelliJ Idea* (2022.01) and Server runtime *Tomcat* (9.0.58). Other IDE might work to, but it is not recommended.

Other resources are the remote database. This database handles the login and information storage. Step to connect to the remote database are described in the README.

**Workflow**

The project is executed in three main parts:

* Make template
* Develop Functions
* Integrating

Template:

The first thing to do was to make an empty web app shell with links and multiple .html pages. This template gave the backbone structure for the project. It consisted of 3 pages (login, food\_input and tracker) and three servlets to render the pages correctly.

Develop function:

After the body was made, functionalities are created for the logic. This was: login via database, retrieving nutrient information for the .csv and display the nutrients on the screen. This was the biggest part of the project. Certain functions, like the retrieving nutrient information is created with autocomplete functionality.

Integrating:

The last part of the project, merge all functions together in the template and connect the outputs with each other to form a constant linkage of information. This part included the lay-out of the web app and the database connection.

**Functionality**

The flow of the web app is: index - login – food input – tracker dashboard.

The index page serves as a welcome page from which you can go to the login.

The login usage the database for a username/password match to gain access.

The food input lets you enter consumed food on the day.

The tracker dashboard views the nutrient intake of the entered foods.