

## Päevapakkumiste soovitusüsteem (pp-classifier)

Lunch offers recommendation system readme document. This document explains the contents of the files and how to run the application locally.

### Architecture

The source code of the application is in the /src directory.

#### /src directory

- `Classifier.py` - defines the `Lemmatizer` class, which is responsible for preprocessing and finding the lemmas, and the `Classifier` class, which is responsible for finding the features of meals.
- `Recommender.py` - defines the `Recommender` class, which is responsible for calculating and ordering meals by their score for the users.
- `Meal.py` - defines a `Meal` class, which is used as a data model in `Classifier.py`.
- `main.py` - this is the entry point of the application, which defines the endpoints and handles requests.

#### root directory

- `.gitignore` - contains pathname patterns that need to be excluded from the repository.
- `CHECKS` - this file defines an endpoint that [Dokku](#) can use to verify that the deploy was successful and the application is running. This is used for [zero downtime deploys](#).
- `Dockerfile` - specifies the [instructions for Docker](#) on how to build the container and run the application. Dokku builds and runs the container on deploy.
- `environment.yml` - [conda environment](#) file, which holds the dependencies to be installed by [conda](#).
- `runfirst.py` - this file is used in Dockerfile build layer, to download estnltk data which will be cached in this layer. This speeds up build times. You can read more [here](#).

### Development

You do not need docker to develop this application.

- You need the [conda package manager](#).
- Then you can create the conda environment from the `environment.yml` file by running the following in the command line:

```
conda env create -f environment.yml
```

- Then you must activate the environment

```
conda activate env35
```

- I suggest changing `debug=True` in `main.py` file `app.run` function. Then it will restart the server when files have changed.
- Now you can start the application locally

```
python src/main.py
```