Requirements

User interaction

- Login component

- Upload of analysable datasets

- Overview of analysable datasets

- Ability to select dataset to analyse

- Dashboard for summary of expenses by category

- Dashboard for highest expenses

- Dashboard for regular expenses (ability to set regularity)

- Interest calculator

- Mortgage calculator

- Income streams and overview

Page design

- Login page

Sign up component: requires user to input email and desired password. Check email and password formats for validity.

Sign in component: requires user to input email and password.

- Data upload page

Upload component: user can select document from system or input link to download dataset. Limit document types to csv and Excel. If csv detected, user must select delimiter.

Column mapping component: receives a list of columns. User must map columns to expected column names.

Feedback page: any data that cannot be parsed must be set here by the user.

- Overview datasets page

Table component with datasets uploaded: each row is a dataset. User can delete datasets from here.

- Expenses by category dashboard

API

/login POST

Success = 200 {“access\_token”: string, “token\_type”: string}

Detail incorrect = 400 {“detail”: “Incorrect email or password.”}

/sign\_up POST

Success = 201 {“detail”: “User added.”}

User exists = 400 {“detail”: “User already exists.”}

Generic error = 500 {“detail”: “User not added.”}