My Expenses Tracker

- **The goals**
  - To keep track of my daily expenses
  - To analyze the expenses by category and month/year
  - To manage multi projects/users expenses
- **Tools and techniques**
  - [Python](#)
  - [Jupyter notebook](#)
  - [pandas](#)
  - [JSON](#)
  - [matplotlib](#)
  - [ipywidget](#)
  - [qgrid](#)
- **What was learned**
  - Decomposing the problem/project. After dividing my project into 3 modules and dividing each module into separate functions, everything became straightforward.
  - GUI can be defensive because the operation was limited(eg: the input widget with min and max bound).
  - Reading the documentation and googling the error message can get rid of 99% of bugs.
- **Future extensions**
  - Create a web application instead of using the Jupyter notebook to improve interaction.
  - Use database instead of JSON to store the data to improve security and performance.
  - Improve the analysis function.
  - Add the feature of budget management.
  - Add the feature of user management.