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HouseholdHero Application

1   Project description

Our software is for households to keep track of their groceries and the money spent on the groceries.

2   Development environment

JavaFX was used for the project's UI and Maven was used as the project's management and comprehension tool.

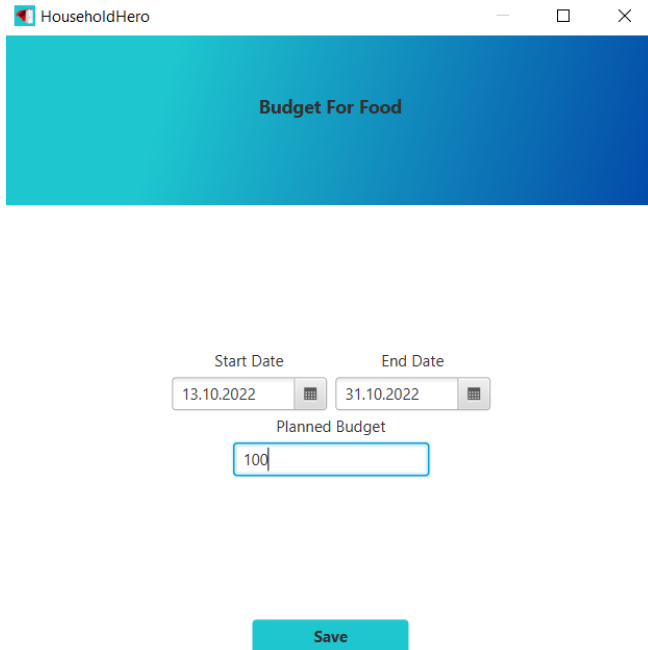# 3   Installation and configuration

Required software:

- Eclipse IDE

- MariaDB

Steps:

1. Clone the Git repository to your machine.
2. Import the project to Eclipse. File > Open projects from file system...
3. Run HouseholdHero.sql in MariaDB.
4. Add your MariaDB credentials to DBInfo.java in Eclipse.
5. Run the application by right clicking the project name in Eclipse and selecting Run As > Java Application.

4   How to use HouseholdHero

Budget

Figure 1: Once you open the application for the first time, you have to set a budget for groceries for a certain time period and a certain amount of money.
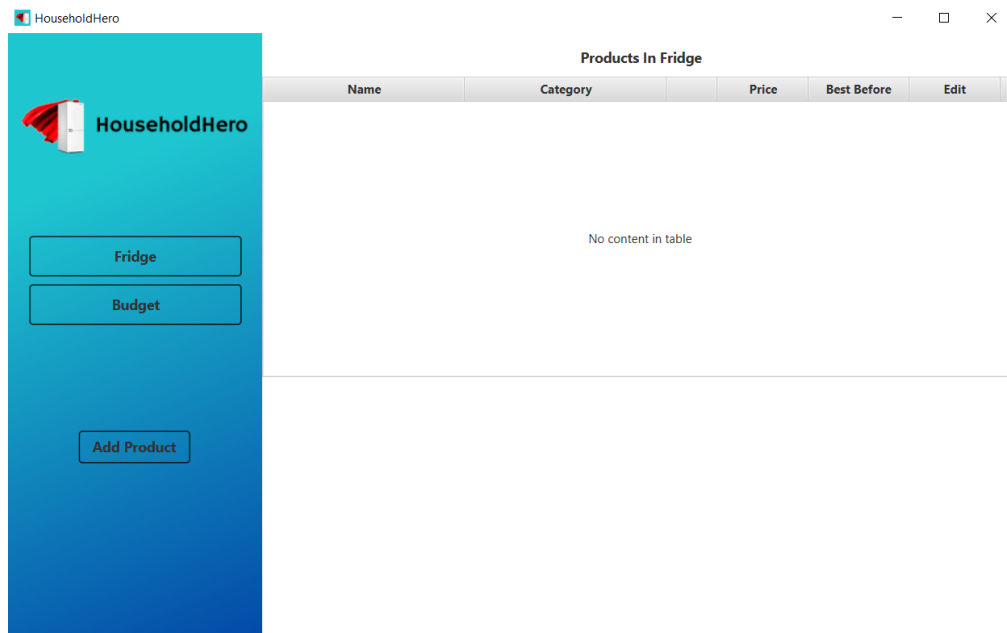
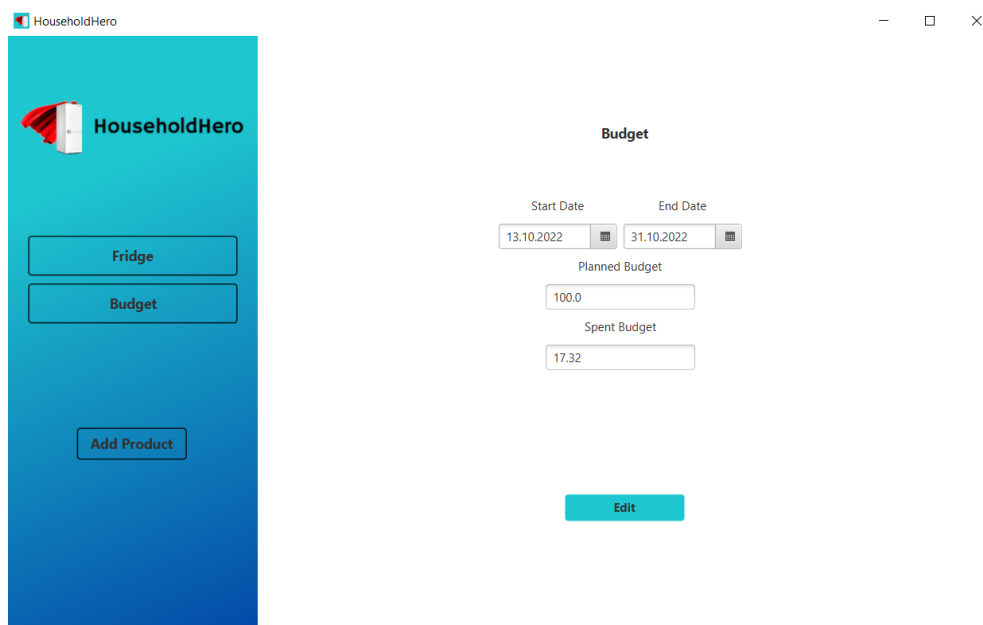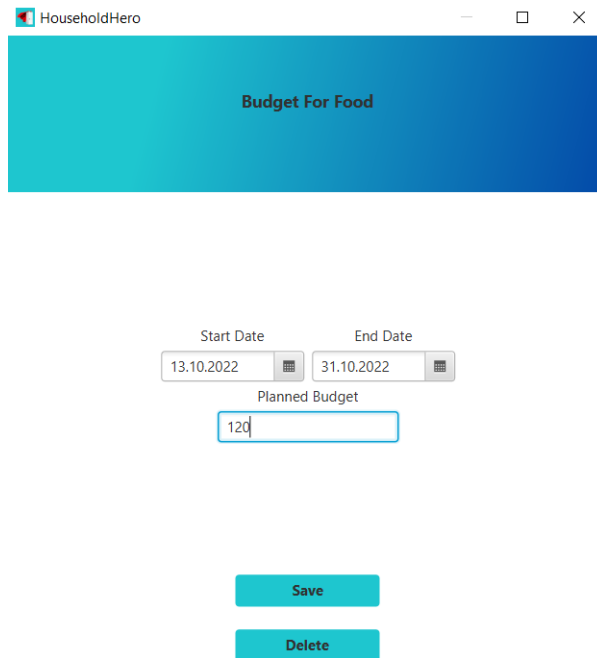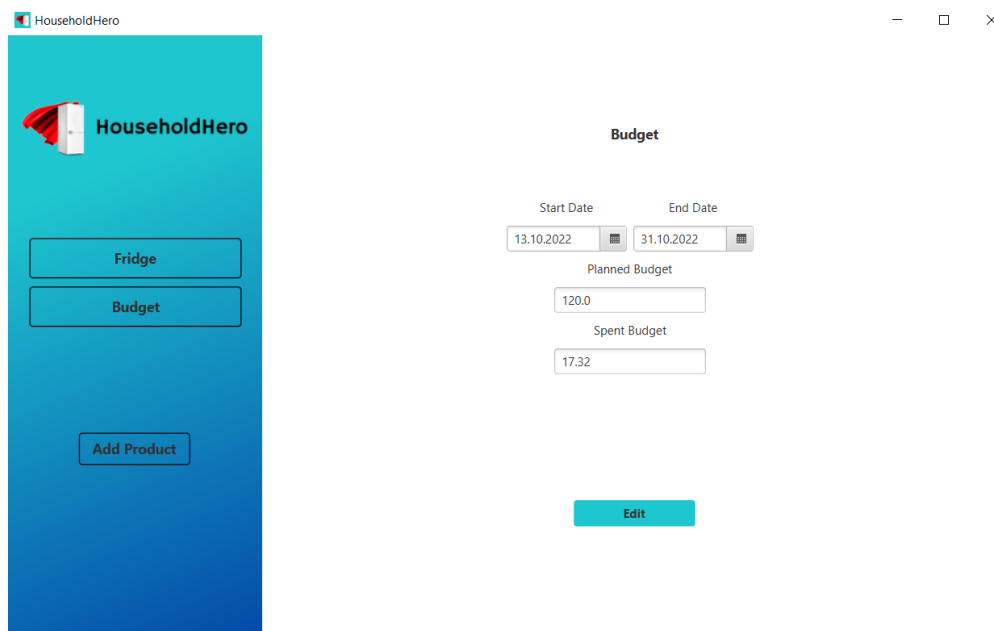Figure 2: After you have set the budget, you will see your fridge.

Figure 3: By clicking on "Budget", you can see how much of your budget you have used.
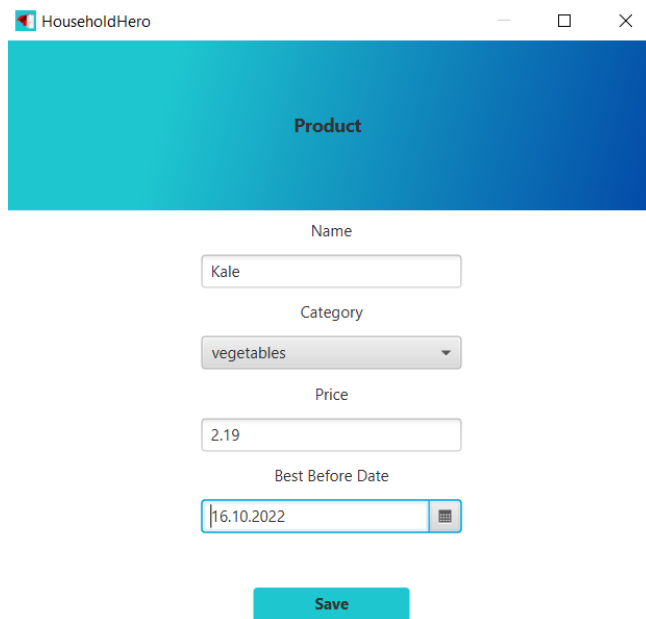
Figure 4: You can also edit the budget by clicking "Edit", making your changes and then clicking "Save".
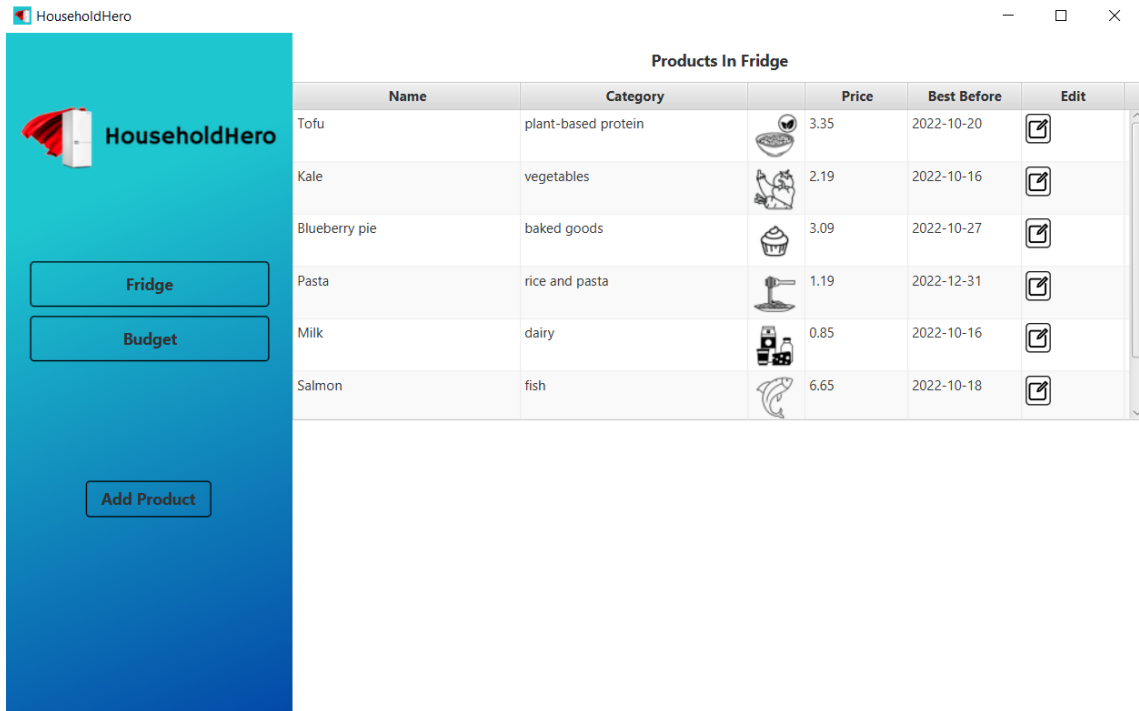

Figure 5: Once you have edited the budget, you can see that it is updated.
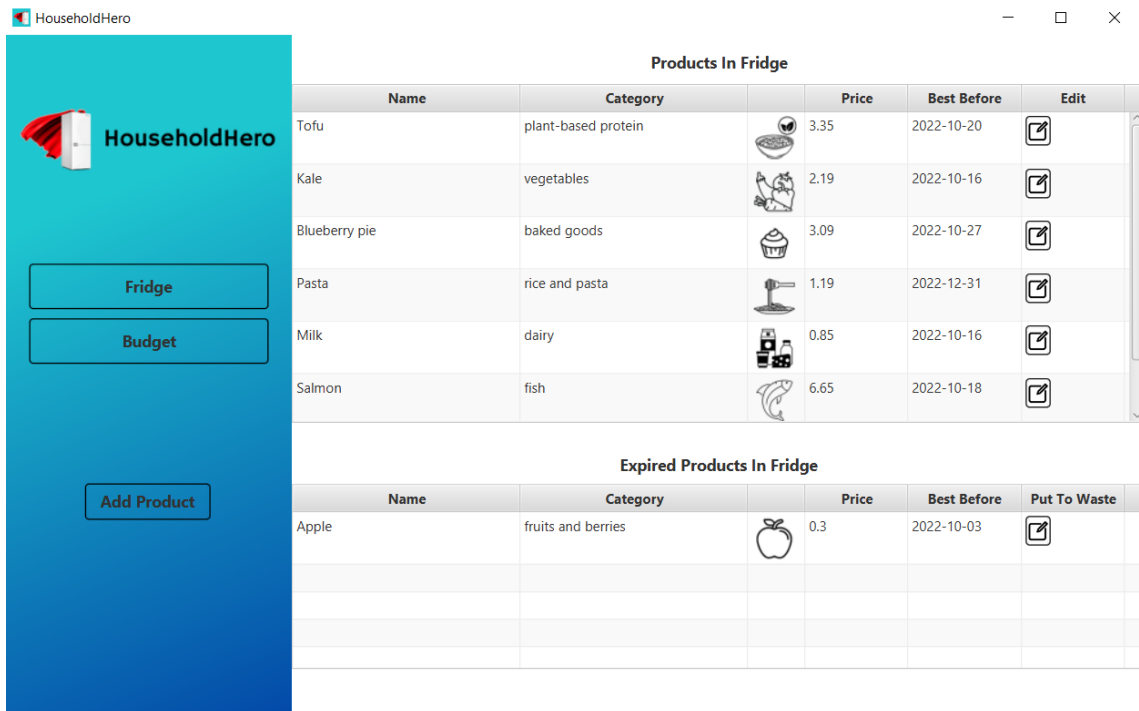
Fridge

Figure 6: By clicking on "Add Product" you can add a product to your fridge. You have to enter the product's name, category, price and best before date before saving the product.

Figure 7: You can see what products there are in your fridge.

Figure 8: If you have expired products, you will see them in the fridge as "Expired Products In Fridge". A product becomes expired after its best before date has passed.
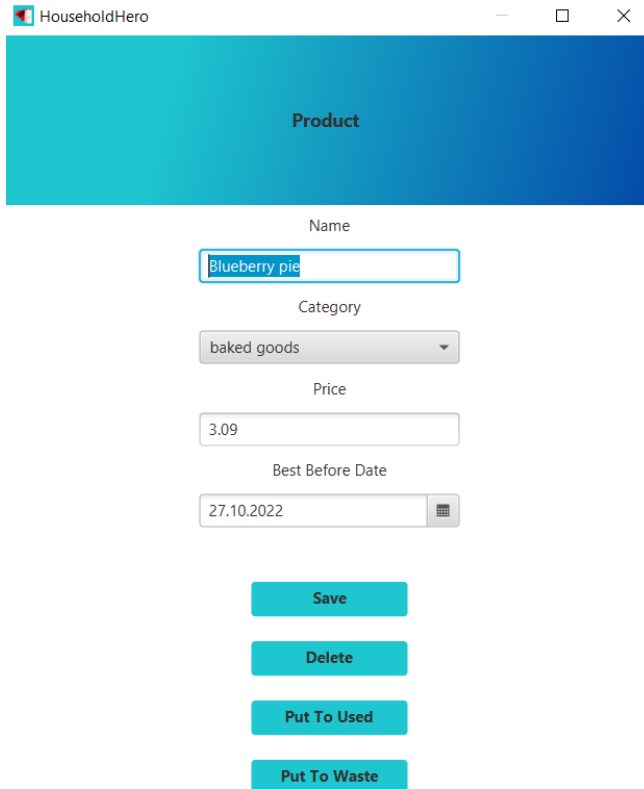
Figure 9: You can sort products alphabetically by their name.

Figure 10: You can sort products by their best before date.

Figure 11: You can edit products in multiple ways.

You can edit a product that is in your fridge.

You can delete a product from your fridge. When you delete a product, it will be removed from the database as well.

You can set the product as "used" if you have consumed the product.

You can set the product as "waste" if the product has expired and you don't plan to use it.

5 Features to be implemented

Fridge view: The expired products are currently in a separate table from the rest of the fridge's contents. We will combine these two tables and add an indicator next to the expired products in order to make the user interface more streamlined and accessible. We may also add another indicator for products that are soon to expire.

Budget view: Currently the budget view only shows the currently active budget. In the future we will expand it so the user can select past budgets and view every product they have purchased during it. We would also like to add a pie chart that displays how much of the budget has been used and how much of it has gone to waste.

Edit budget view: The "Delete" button currently has no functionality. This will be fixed in the future.