



Test assignment “Filters”

Application

Create an application which has a button to create new filter and representation of already created filters.

Homepage consist of “Add Filter” button and representation of saved filters. If user clicks “Add Filter” button a filter dialog will appear. Representation of saved filters can be a table, dashboard or any other way to represent overview.

Following picture should be used as a design idea. Text and labels inside can be any of your choice.

Filter

Filter name

Criteria

Amount	More	4	-
Title	Starts with	Meow	-
Date	From	25 10 2021	-

+ ADD ROW

Selection ☒ Select 1 ☐ Select 2 ☐ Select 3

CLOSE SAVE

Modal dialog functional requirements:

- 🐾 (+) button creates new line of filtering criteria
- 🐾 (-) button deletes criteria
- 🐾 Filter should contain at least one criteria
- 🐾 There can be 3 types of criteria:
 - 🐾 Amount with number comparing conditions
 - 🐾 Title with text comparing conditions
 - 🐾 Date with date comparing conditions, date choice can be represented by date picker or 3 combo boxes
- 🐾 Each added criteria default as “Amount” type
- 🐾 Comparing conditions should correspond to selected criteria type
- 🐾 Filter dialog should have fixed size and be configurable to operate in modal/non-modal mode
- 🐾 Let the user resize only the height
- 🐾 If there are more rows than dialog can fit, scrolling should appear
- 🐾 In non-modal mode user by clicking “Add Filter” button sees filter dialog as part of page



Architecture constraints

- 🐾 Application backend should be implemented using Spring Boot (3+) and Java 17+
- 🐾 Application frontend should be implement using any modern JS framework or library (e.g. Angular)
- 🐾 Application frontend and backend should communicate using REST services and use JSON protocol for data transfer
- 🐾 Application data should be kept in SQL database (it is “OK” to use H2).
- 🐾 Application should create all required database schemas, tables and test-data on startup.
- 🐾 Test data should contain at least 2 filters

Submitting your work

Provide us git repository link or clean ZIP file containing application source code with additional descriptions if needed.

Questions?

If you have any questions do not hesitate contacting us. Happy coding!