

Home Budget App

We want to support financial independence, therefore we want you to create a simple Home Budget application. Since you are primary backend developer, you will do it in a way that you create a simple REST API. On top of that API, there will be client app added later (SPA and/or mobile – it is not scope of your task). You need to support client application with the REST API you will build.

Tech stack

- use any framework you are comfortable with
- use any RDB
- output should be JSON formatted
- API is documented (Swagger or similar)

Features

- user authentication (register, login)
- entities and attributes are defined by you, and what you think is important
- for simplicity, every user has a predefined X amount of money on their account
- categories CRUD
- expenses CRUD (you can add expense when you spend the money)
- every bill is in relation with category
- filter bills by parameters (category, price min-max, date, and any other parameter you want)
- data aggregation endpoint (example: money earned & spent in last month, quarter, year, here you can play 😊)

Bonus

- there are predefined categories by your own choice (food, car, accommodation, gifts, ...)
- tests

Example

```
POST category
{
  "name": "food"
}

GET categories
[
  {
    "id": 1,
    "name": "food"
  }
]

POST expense
{
  "description": "Groceries shopping",
  "amount": 123,45,
  "categoryId": 1
}

GET expenses
[
  {
    "id": 1
    "description": "Groceries shopping",
    "amount": 123,45,
    "category": {
      "id": 1,
      "name": "food"
    }
  }
]
```

Submission

Please provide us a git repository. If not possible, you can send us source files in a common archive format (ZIP, RAR, TAR etc.). Please send us a git repository link or files as described above to the submission link provided in our last email. And of course, feel free to reach out to lina.visic@devot.team with any questions or suggestions in the meantime.

Good luck and have fun! 😊