



KEPTANG

เว็บแอพพลิเคชั่น รายรับ-รายจ่าย



รายชื่อสมาชิก



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KEPTANG



ຫ້ວຂ້ອ

USER INTERFACE

APIARY

RUST

FRONTEND

DATABASE

หน้าเว็บไซต์จะ มีอะไรบ้าง?

หน้าต่าง Login

หน้าต่าง Register

Overview(Home)

รายรับ/รายจ่ายวันนี้

เพิ่มรายรับ/รายจ่าย

แก้ไขรายรับ/รายจ่าย

Profile

หน้าเว็บไซต์ของ Keptang นั้นจะเป็น Front-end โดยใช้มันต่อ กับภาษา Rust ใน Back-End



Keptang

เว็บไซต์สรุปรายรับรายจ่าย

Signup

Username:

Password:

Submit

มีบัญชีอยู่แล้ว **กดที่นี่**



Keptang

เว็บไซต์สรุปรายรับรายจ่าย

Login

Username:

Password:

Submit

ยังไม่เคยลงทะเบียน **กด**
ที่นี่



GET

/Profile



ໂປຣໄຟລ໌

ยอดคงเหลือทั้งหมด

115000 บาท

Keptang

ເວັບໄຊຕົ້ນສະໜູປະຍາຍຮັບຮາຍຈ່າຍ



Username : Most

ID : 40956

Logout





Profile

Profile

Profile

← ⏪ 🔒 https://private-a3a28-nirutkunwong.apiary-mock.com/profile

```
▼ {  
  "accountid": 40956,  
  "username": "Most",  
  "totalbalance": 115000  
}
```

Keptang
เงื่อนไขที่ต้องมีเมื่อต้องการรับ-รายจ่าย และคุณต้องมีบัญชีที่เราจัดทำไว้
Profile [/profile]
Profile [GET]
+ Request (application/json)

+ Headers

accountid: "40956"

+ Response 200 (application/json)

+ Headers

Locate: /profile/40956

+ Body

```
{  
  "accountid": 40956,  
  "username": "Most",  
  "totalbalance": 115000  
}
```

GET

/Money



Keptang

ເວັບໄຊຕົ່ນສະຫຼຸບປະຍົບຮັບຮາຍຈ່າຍ

Overview

ยอดคงเหลือທັງໝາດ

115000 บาท

ยอดคงเหลือທັງໝາດວັນນີ້

100 บาท

ຮາຍຮັບທັງໝາດ

300 บาท

ຮາຍຈ່າຍທັງໝາດ

200 บาท

2023-03-15

| ຮາຍຮັບ | | ຮາຍຈ່າຍ | |
|--------|-----|---------------|-----|
| ແມ່ໄທ | 300 | ເລື່ອງຂ້າວສາວ | 100 |
| | | ໜ້ອຂ້າວເໜ້າ | 100 |

next





Get All money

ยอดเงินคงเหลือทั้งหมด

get All money

```
## ยอดเงินคงเหลือทั้งหมด [/money]
### get All money [GET]
+ Request (application/json)

+ Headers
    accountid: "40956"

+ Response 200 (application/json)

+ Headers
    Location: /money/40956

+ Body
{
    "balancetotal": 115000,
    "moneyinouthistory": [
        {
            "list_id": 5,
            "description": "เพียงข้าวสาร",
            "type": "expense",
            "amount": 100 ,
            "date": "2023-03-15"
        },
        {
            "list_id": 4,
            "description": "ซื้อผ้ามาเก็บ",
            "type": "expense",
            "amount": 100 ,
            "date": "2023-03-15"
        }
    ]
}
```

list_id": 3,
"description": "แม่ให้",
"type": "income",
"amount": 300 ,
"date": "2023-03-15"

list_id": 2,
"description": "สาวเลี้ยง",
"type": "income",
"amount": 5000 ,
"date": "2023-03-14"

list_id": 1,
"description": "น้ำจิบบ้มใหม่",
"type": "expense",
"amount": 5000 ,
"date": "2023-03-13"



← C https://private-a3a28-nirutkunwong.apiar

```
▼ {  
    "balancetotal": 115000,  
    "moneyinouthistory": [  
        {  
            "list_id": 5,  
            "description": "เลี้ยงข้าวสาล",  
            "type": "expense",  
            "amount": 100,  
            "date": "2023-03-15"  
        },  
        {  
            "list_id": 4,  
            "description": "ซื้อข้าวเช้า",  
            "type": "expense",  
            "amount": 100,  
            "date": "2023-03-15"  
        },  
        {  
            "list_id": 3,  
            "description": "แม่ให",  
            "type": "income",  
            "amount": 300,  
            "date": "2023-03-15"  
        },  
        {  
            "list_id": 2,  
            "description": "สาวเลี้ยง",  
            "type": "income",  
            "amount": 5000,  
            "date": "2023-03-14"  
        },  
        {  
            "list_id": 1,  
            "description": "นิวเจ็นบัมใหม",  
            "type": "expense",  
            "amount": 5000,  
            "date": "2023-03-13"  
        }  
    ]  
}
```

GET

/Money /today



Keptang

ເວັບໄຊຕົ່ນສະໜູປາຍຮັບຮາຍຈ່າຍ

ຮາຍຮັບຮາຍ/ຈ່າຍວັນນີ້

2023-03-15



| ຮາຍຮັບ | | ຮາຍຮັບຮາຍຈ່າຍ | |
|--------|-----|---------------------|-----|
| ແມ່ໄທ້ | 300 | ແມ່ໄທ້ເລື່ອງຂ້າວສາວ | 100 |
| | | ຫົ້ວຂ້າວເຫຼຬກ | 100 |

| ຍອດຄົງເໜືອທັງໝາດວັນນີ້ | ຍອດຄົງເໜືອທັງໝາດ |
|------------------------|------------------|
| 100 | 115000 |



APIARY



Get daily transactions

รายรับราย-จ่าย รายวัน

get daily transactions

```
## รายรับราย-จ่าย รายวัน [/money/today]
### get daily transactions [GET]
+ Request (application/json)

+ Headers
    | accountid: "40956"

+ Response 200 (application/json)
    + Headers
        | Location: /money/today/40956

    + Body
        {
            "balancetoday": 100,
            "balancetotal": 115000,
            "date": "2023-03-15",
            "moneyinouthishorytoday": [
                ...
            ]
        }
}
```

```
{
    "list_id": 5,
    "description": "เลี้ยงข้าวสาล",
    "type": "expense",
    "amount": 100
},
{
    "list_id": 4,
    "description": "ซื้อข้าวเช้า",
    "type": "expense",
    "amount": 100
},
{
    "list_id": 3,
    "description": "แม่ไฟ",
    "type": "income",
    "amount": 300
}
```

A screenshot of a web browser displaying a JSON object. The URL in the address bar is <https://private-a3a28-nirutki>. The JSON structure represents financial data:

```
{  
  "balance_today": 100,  
  "balance_total": 115000,  
  "date": "2023-03-15",  
  "money_in_out_history_today": [  
    {  
      "list_id": 5,  
      "description": "เลี้ยงข้าวสาล",  
      "type": "expense",  
      "amount": 100  
    },  
    {  
      "list_id": 4,  
      "description": "ข้อข้าวเช้า",  
      "type": "expense",  
      "amount": 100  
    },  
    {  
      "list_id": 3,  
      "description": "แมใหม",  
      "type": "income",  
      "amount": 300  
    }  
  ]  
}
```

POST

/Money /add

Keptang

ເວັບໄຊຕົ້ນສະຫຼຸບປະຍົບຮັບຮາຍຈ່າຍ



ເພີ່ມຮັບຮາຍຈ່າຍ



ຈຳນວນ :

300

ໜໍາຍເຫດຖຸ :

ແມ່ໄໝ

ເວລາ :

2023-03-15





Post add

เพิ่ม รายรับ-รายจ่าย

post add

เพิ่ม รายรับ-รายจ่าย [/money/add]

post add[POST]

+ Request (application/json)

```
{  
    "user_data": {  
        "id": 40957  
    },  
    "dataitem": {  
        "list_id": 15,  
        "description": "รายรับทดสอบ",  
        "date": "2023-03-15",  
        "amount": 1000,  
        "types": "income"  
    }  
}
```

+ Response 201 (application/json)

+ Headers

Location: /money/add/40956

+ Body

```
{  
    "items": {  
        "amount": 1000,  
        "date": "2023-03-15",  
        "description": "รายรับทดสอบ",  
        "list_id": 6,  
        "types": "income"  
    },  
    "text": "ทำการเพิ่มข้อมูลเด้อ",  
    "u_name": "vivat"  
}
```

https://private-a3a28-nirutkunwong.apiary-mock.com/money/add

POST https://private-a3a28-nirutkunwong.apiary-mock.com/money/add

Params Authorization Headers (8) Body ● Pre-request Script Tests

● none ● form-data ● x-www-form-urlencoded ● raw ● binary ● Graph

```
1  ...
2  ...
3  ...
4  ...
5  ...
6  ...
7  ...
8  ...
9  ...
10 ...
11 ...
12 ...
```

Body Cookies Headers (12) Test Results

Pretty Raw Preview Visualize JSON

```
1 {
2   "items": [
3     {
4       "amount": 1000,
5       "date": "2023-03-15",
6       "description": "รายรับทดสอบ",
7       "list_id": 6,
8       "types": "income"
9     },
10    {
11      "text": "ทำการเพิ่มข้อมูลทดสอบ",
12      "u_name": "vivat"
13    }
14  ]
15}
```

PUT

Keptang

ເວັບໄຊຕົ່ງສຽງປະກາດຮັບຮັດຍາຍ

/Money /edit,delete



ແກ້ໄຂຮັບຮັດຍາຍ

| | |
|-----|-----|
| ຮັບ | ຈາຍ |
|-----|-----|

| | |
|----|---|
| ID | ▼ |
|----|---|

ຈຳນວນ :

5000

ໜາຍເຫດຖຸ :

ແມ່ເລື່ອງ

ເວລາ :

2023-03-14





Put edit

แก้ไข รายรับ-รายจ่าย

put edit

```
190 ## แก้ไข รายรับ-รายจ่าย [/money/edit/2]
191 ### put edit[PUT]
192 + Request (application/json)
193
194 {
195     "user_data": {
196         "id": 40956
197     },
198     "dataitem": {
199         "description": "รายรับทดสอบ",
200         "date": "2023-03-15",
201         "amount": 1000,
202         "types": "expenses"
203     }
204 }
```



Put edit(ต่อ)

+ Response 200 (application/json)

+ Headers

Location: /money/income/40956

+ Body

```
{  
  "items_new": {  
    "amount": 1000,  
    "date": "2023-03-15",  
    "description": "รายรับทดสอบ",  
    "list_id": 3,  
    "types": "expenses"  
  },  
  "items_old": {  
    "amount": 100,  
    "date": "2023-03-15",  
    "description": "แม่ไฟ",  
    "list_id": 3,  
    "types": "income"  
  },  
  "text": "ทำการแก้ไขข้อมูลลดเดือ"
```



https://private-a3a28-nirutkunwong.apiary-mock.com/money/edit/2

Body Cookies Headers (12) Test Results

PUT

https://private-a3a28-nirutkunwong.apiary-mock.com/money/e

Pretty Raw Preview Visualize JSON



Params

Authorization

Headers (8)

Body

Pre-request Script

Test

none

form-data

x-www-form-urlencoded

raw

binary

Gi

```
1 {  
2   "user_data": {  
3     "id": 40956  
4   },  
5   "dataitem": {  
6     "description": "รายรับทดสอบ",  
7     "date": "2023-03-15",  
8     "amount": 1000,  
9     "types": "expenses"  
10    }  
11 }
```

```
1 {  
2   "items_new": {  
3     "amount": 1000,  
4     "date": "2023-03-15",  
5     "description": "รายรับทดสอบ",  
6     "list_id": 3,  
7     "types": "expenses"  
8   },  
9   "items_old": {  
10     "amount": 100,  
11     "date": "2023-03-15",  
12     "description": "แม่ไฟ",  
13     "list_id": 3,  
14     "types": "income"  
15   },  
16   "text": "ทำการแก้ไขข้อมูลลงเดือ"
```



Delete item

ลบ รายรับ-รายจ่าย

Delete item

```
232 ## ลบ รายรับ-รายจ่าย [/money/delete/8]
233 ### Delete item [DELETE]
234
235 + Request (application/json)
236
237 + Headers
238
239     accountid: "40956"
240
241
242 + Response 200 (application/json)
243
244 {
245     "items": {
246         "amount": 100,
247         "date": "2023-03-15",
248         "description": "แม่ให้",
249         "list_id": 3,
250         "types": "income"
251     },
252     "text": "ทำการลบข้อมูลละเด้อ"
253 }
```



<https://private-a3a28-nirutkunwong.apiary-mock.com/money/delete/8>

DELETE

<https://private-a3a28-nirutkunwong.apiary-mock.com>

Params

Authorization

Headers (8)

Body

Pre-request Script

none

form-data

x-www-form-urlencoded

raw

binary

1

2

....."accountid": "40956"

3

Body Cookies Headers (11) Test Results

Pretty

Raw

Preview

Visualize

JSON



```
1
2
3
4
5
6
7
8
9
10
```

1
2
3
4
5
6
7
8
9
10

```
"items": {
    "amount": 100,
    "date": "2023-03-15",
    "description": "แม่ให้",
    "list_id": 3,
    "types": "income"
},
"text": "ทำการลบข้อมูลละเด้อ"
```



Data structure



```
use serde::{Serialize, Deserialize};

#[derive(Serialize, Deserialize)]
// เป็น object ที่เราสร้างขึ้นมา ตารางเก็บ รายรับ-รายจ่าย
pub struct Moneylist {
    pub list_id: i32,
    pub description: String,
    pub date: String,
    pub amount: i32,
    pub types: String,
}
// ตารางเก็บ บัญชีผู้ใช้
#[derive(Serialize, Deserialize)]
pub struct Userdata {
    pub id: i32,
    pub name: String,
    pub balancetotal: i32,
}
```

RUST



Profile

ทดสอบ ตอบกลับถูกต้อง

keptang2 / profile

GET http://127.0.0.1:8080/profile

Params Authorization Headers (8) Body **Pre-request Script** Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {  
2   "id": 40956  
3 }
```

Body Cookies Headers (3) Test Results

Pretty Raw Preview Visualize JSON

```
1 {  
2   "id": 40956,  
3   "name": "vivat",  
4   "balancetotal": 115000  
5 }
```

```
use actix_web::{ get, HttpResponse, Responder, web};  
use log::{info};  
use serde::{Serialize, Deserialize};  
use crate::models::moneylist::*;

// สร้าง struct ใหม่ที่มีเฉพาะส่วนที่คุณต้องการส่ง
#[derive(Serialize, Deserialize)]
struct UserdataUpgate {
    id: i32,
}
// GET /profile
#[get("/profile")]
async fn get_profile(user_id: web::Json<UserdataUpgate>) -> impl Responder {
    info!("Keptang profile");

    // ค่า id ที่รับมา
    let userdata = user_id.into_inner();
    let id: i32 = userdata.id;

    // ค่าเริ่มต้น
    let mut user_money: i32 = 0;
    let mut user_name = "";

    if id==40956 {
        user_money = 115000;
        user_name = "vivat";
    }

    // ค่า หลังเช็คแล้ว
    let money_total =
        Userdata{
            id: id,
            balancetotal: user_money,
            name: user_name.to_string(),
        };
    HttpResponse::Ok().json(money_total)
}
```

RUST



Profile

នសព្វភាព តែបកប៉ុន្តែង



keptang2 / profile

Save

GET http://127.0.0.1:8080/profile

Params Auth Headers (8) Body Pre-req. Tests Settings

raw JSON

```
1 {  
2   "id": 55  
3 }
```

Body 200 OK 5 ms 144 B

Pretty Raw Preview Visualize JSON

```
1 {  
2   "id": 55,  
3   "name": "",  
4   "balanceTotal": 0  
5 }
```

RUST



Profile

nsnū status code 400 ua: 404

keptang2 / profile

GET http://127.0.0.1:8080/profile

Params Auth Headers (8) Body Pre-req. Tests Settings

raw JSON

```
1 {"id": xxx}
```

Body

Pretty Raw Preview Visualize Text

```
1 Json deserialize error: expected value at line 2 column 9
```

keptang2 / profile

GET http://127.0.0.1:8080/profileless

Params Auth Headers (8) Body Pre-req. Tests Settings

raw JSON

```
1 {"id": 40956}
```

Body

404 Not Found 5 ms 82 B

RUST



Get All money

ກສລັປກົດ ຕອບກັບດູກຕ້ອງ

keptang2 / money

Save

GET http://127.0.0.1:8080/money

Params Authorization Headers (8) Body ● Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {"id": 888}
```

Body Cookies Headers (3) Test Results

Status: 200 OK Time: 6 ms Size: 172 B

Pretty Raw Preview Visualize JSON

```
1 {
  "items": [],
  "total": {
    "balance_total": 0,
    "id": 888,
    "name": "noname"
  }
}
```



```
use actix_web::{ get, HttpResponse, Responder, web};
use log::{ info};
use serde_json::json;
use serde::{Serialize, Deserialize};
use crate::models::moneylist::*;

// สร้าง struct ใหม่ที่มีเฉพาะส่วนที่คุณต้องการส่ง
#[derive(Serialize, Deserialize)]
struct UserdataUpgate {
    id: i32,
}

// GET /money: สำหรับอ่านข้อมูลรายการรายรับรายจ่ายทั้งหมด
#[get("/money")]
async fn get_money(user_id: web::Json<UserdataUpgate>) -> impl Responder {
    info!("Keptang money");

    // ค่า id ที่รับมา
    let userdata = user_id.into_inner();
    let id: i32 = userdata.id;
    // ค่าเริ่มต้น
    let mut _user_money: i32 = 0;
    let mut money_item_all = vec![];
    let mut _user_name = "";
    // กรณีเช็ค database นี้แค่ตัวอย่าง
    if id==40956 {
        _user_money = 115000;
        _user_name = "vivat";
        money_item_all = vec![
            Moneylist {
                list_id: 5,
                description: "ເລື່ອງຂ້າ".to_string(),
                date: "2023-03-15".to_string(),
                amount: 100,
                types: "expense".to_string(),
            },
            Moneylist {
```

RUST



Get All money

នសិក្សា តាមការបញ្ជូនតែង



keptang2 / money

Save

GET http://127.0.0.1:8080/money

Params Authorization Headers (8) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {  
2   "id": 40956  
3 }
```

Body Cookies Headers (3) Test Results

Status: 200 OK Time: 5 ms Size: 750 B

Pretty Raw Preview Visualize JSON

```
1 {  
2   "items": [  
3     {  
4       "amount": 100,  
5       "date": "2023-03-15",  
6       "description": "ເលើយខ្សោយសាតា",  
7       "list_id": 5,  
8       "types": "expense"  
9     },  
10    {  
11       "amount": 100,  
12       "date": "2023-03-15",  
13       "description": "ចេញខ្សោយ",  
14       "list_id": 4,  
15       "types": "expense"  
16     },  
17   ]  
}
```

RUST



Get All money

nsđí status code 400

ua: 404

The screenshot shows a POST request to `http://127.0.0.1:8080/money`. The Body tab contains the following JSON:

```
1 {  
2   "id": 40956  
3 }
```

The response status is `200 OK`, and the body is:

```
1 {  
2   "id": 40956  
3 }
```

Details: Status: 200 OK

The screenshot shows a GET request to `http://127.0.0.1:8080/moneys`. The Body tab contains the following JSON:

```
1 {  
2   "id": "สกุณย์เจ็คศุนย์"  
3 }
```

The response status is `400 Bad Request`, and the body is:

```
1 Json deserialize error: expected value at line 2 column 9
```

Details: Status: 400 Bad Request

RUST



Get money today

នសាក់ប្រកបដូរតែង

keptang2 / today

GET http://127.0.0.1:8080/money/today

Params Authorization Headers (8) Body ● Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

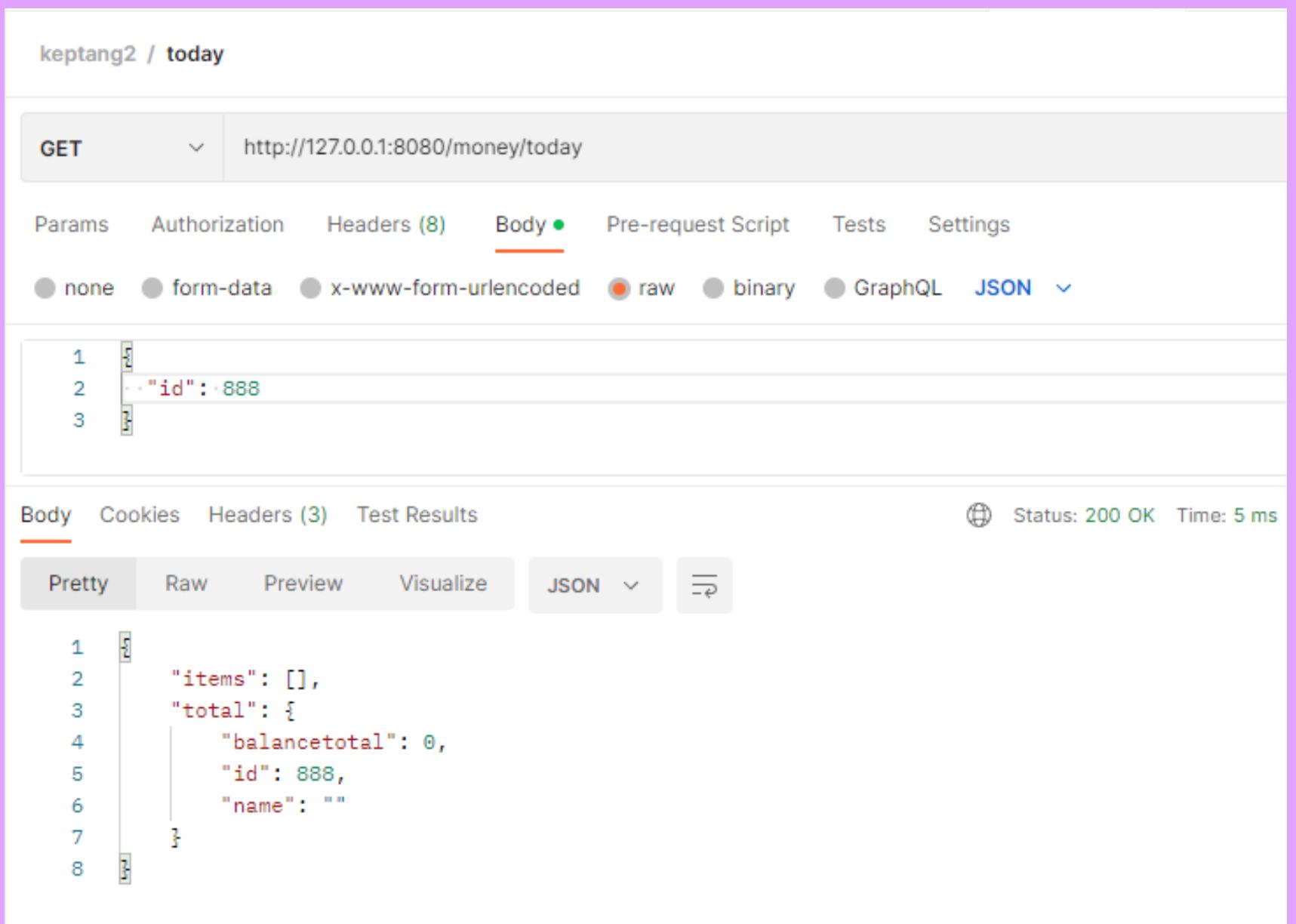
1 [{ "id": 888 }]

Body Cookies Headers (3) Test Results

Status: 200 OK Time: 5 ms

Pretty Raw Preview Visualize JSON

1 [{ "items": [], "total": { "balancetotal": 0, "id": 888, "name": "" } }]



```
use actix_web::{ get, HttpResponse, Responder, web };
use log::info;
use serde_json::json;
use serde::{Serialize, Deserialize};
use crate::models::moneylist::*;

// สร้าง struct ใหม่ที่มีเฉพาะส่วนที่คุณต้องการส่ง
#[derive(Serialize, Deserialize)]
struct UserdataUpdate {
    id: i32,
}

// GET /money: สำหรับอ่านข้อมูลรายการรับ-รายจ่ายวันนี้
#[get("/money/today")]
async fn get_money_today(user_id: web::Json<UserdataUpdate>) -> impl Responder {
    info!("Keptang today");

    // ค่า id ที่รับมา
    let userdata = user_id.into_inner();
    let id: i32 = userdata.id;

    // ค่าเริ่มต้น
    let mut _user_money: i32 = 0;
    let mut _user_name = "";
    let mut money_item_all = vec![];

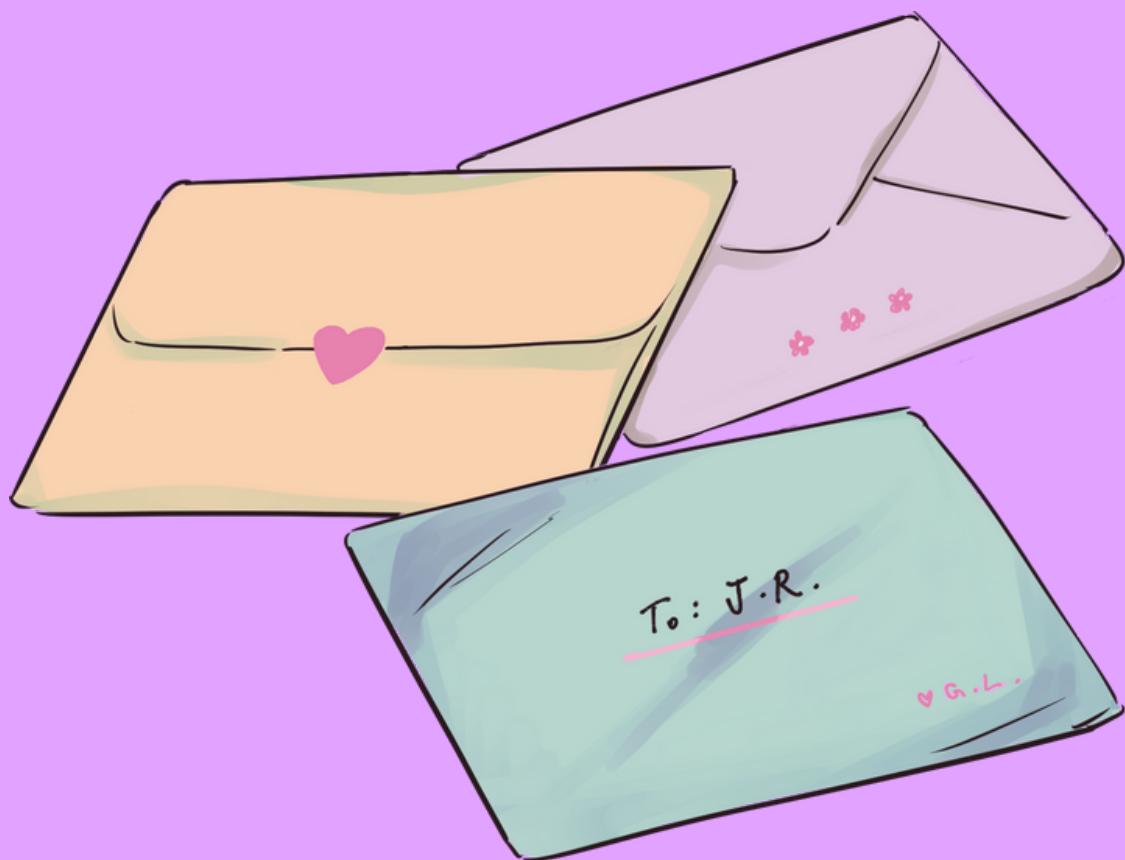
    if id==40956 {
        _user_money = 115000;
        _user_name = "vivat";
        money_item_all = vec![
            Moneylist {
                list_id: 5,
                description: "ເឡິງໜ້າ".to_string(),
                date: "2023-03-15".to_string(),
                amount: 100,
                types: "expense".to_string(),
            }
        ];
    }
}
```

RUST



Get money today

នសិក្សា តែបកាបុកតែង



keptang2 / today

Save

GET http://127.0.0.1:8080/money/today

Params Authorization Headers (8) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {  
2   "id": 40956  
3 }
```

Body Cookies Headers (3) Test Results Status: 200 OK Time: 6 ms Size: 516 B

Pretty Raw Preview Visualize JSON

```
1 [  
2   {  
3     "amount": 100,  
4     "date": "2023-03-15",  
5     "description": "ធៀនខ្សោយសារ",  
6     "list_id": 5,  
7     "types": "expense"  
8   },  
9   {  
10     "amount": 100,  
11     "date": "2023-03-15",  
12     "description": "ចូលខ្សោយទៅ",  
13     "list_id": 4,  
14     "types": "expense"  
15   },  
16 ]
```

RUST



Get money today

nsđñ status code 400 ua: 404

keptang2 / today

GET http://127.0.0.1:8080/money/today

Body (Pretty)

```
1 {  
2   "id": "Jumpbox!"  
3 }
```

Status: 400 Bad Request

1 Json deserialize error: invalid type: string "\u{e38}\u{e4a}Jumpbox!", expected

keptang2 / today

GET http://127.0.0.1:8080/money/toyou

Body (Raw)

```
1 {  
2   "id": 40956  
3 }
```

Status: 404 Not Found

1



Post add money

ทดสอบ API ต่อจากขั้นตอนที่แล้ว

keptang2 / add

POST http://127.0.0.1:8080/money/add

Params Auth Headers (8) Body Pre-req. Tests Settings

raw JSON

```

1 {
2   "user_data": {
3     "id": 40956
4   },
5   "dataitem": [
6     {
7       "description": "รายรับทดสอบ",
8       "date": "2023-03-15",
9       "amount": 1000,
10      "types": "income"
11    }
12 }

```

Body

Pretty Raw Preview Visualize JSON

```

1 {
2   "items": [
3     {
4       "amount": 1000,
5       "date": "2023-03-15",
6       "description": "รายรับทดสอบ",
7       "list_id": 6,
8       "types": "income"
9     },
10    {
11      "text": "ทำการเพิ่มข้อมูลลงเดือ",
12      "u_name": "vivat"
13    }
14 }

```

201 Created 5 ms 331 B

```

use actix_web::{web, HttpResponse, Responder, post};
use serde::{Serialize, Deserialize};
use log::{debug, info};
use serde_json::json;

use crate::models::moneylist::*;

// สร้าง struct ใหม่ที่มีเฉพาะส่วนที่คุณต้องการส่ง
#[derive(Serialize, Deserialize)]
struct UserdataUpgate {
    id: i32,
}

#[derive(Serialize, Deserialize)]
struct MoneylistUpgate {
    description: String,
    date: String,
    amount: i32,
    types: String,
}

#[derive(Serialize, Deserialize)]
struct PostMoneyRequest {
    user_data: UserdataUpgate,
    dataitem: MoneylistUpgate,
}

// POST /money: สำหรับเพิ่มข้อมูลรายการรายรับรายจ่ายใหม่
#[post("/money")]
async fn post_money(input_data: web::Json<PostMoneyRequest>) -> impl Responder {
    info!("post money");
    debug!("post: {}");

    // ค่าเริ่มต้น ที่รับมาแบบ JSON (ถ้าอยากแก้ไข เดิม mut หลัง let)
    let userdata = input_data.into_inner();

```

RUST



Post add money

នសតី status code 400 ឬ 404

keptang2 / add

POST http://127.0.0.1:8080/money/add

Params Auth Headers (8) Body Pre-req. Tests Settings

raw JSON

```
1 {  
2   "dataitem": {  
3     "description": "រាយការណ៍សរុប",  
4     "date": "2023-03-15",  
5     "amount": 1000,  
6     "types": "income"  
7   }  
8 }
```

Body 400 Bad Request 7 ms 194 B

Pretty Raw Preview Visualize Text

keptang2 / add

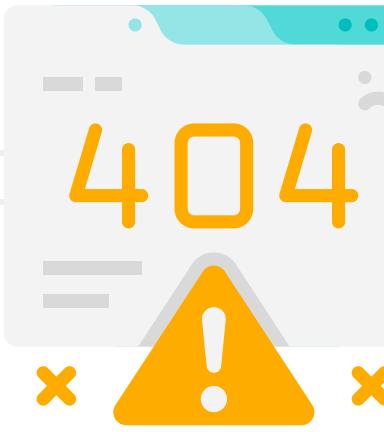
POST http://127.0.0.1:8080/money/address

Params Auth Headers (8) Body Pre-req. Tests Settings

raw JSON

```
1 {  
2   "user_data": {  
3     "id": 40956  
4   },  
5   "dataitem": {  
6     "description": "រាយការណ៍សរុប",  
7     "date": "2023-03-15",  
8     "amount": 1000,  
9     "types": "income"  
10  }  
11 }
```

Body 404 Not Found 4 ms 82 B



RUST



Put edit money

នរណ៍ប្រកាស ពីរបាយការណ៍តុកដៃ



```
use crate::models::moneylist::*;
use actix_web::{put, web, HttpResponse};
use log::{debug, info};
use serde::{Deserialize, Serialize};
use serde_json::json;

// សរុប struct ໃម្យទាំងអស់នេះដោយគ្នាដែលត្រូវបានសំឡោះ
#[derive(Serialize, Deserialize)]
struct UserdataUpgate {
    id: i32,
}

#[derive(Serialize, Deserialize)]
struct MoneylistUpgate {
    description: String,
    date: String,
    amount: i32,
    types: String,
}
#[derive(Serialize, Deserialize)]
struct PostMoneyRequest {
    user_data: UserdataUpgate,
    dataitem: MoneylistUpgate,
}

// PUT /money/edit/{id}: ទទួលទិន្នន័យ JSON ដែលមានចូលរួម "expense"/"income" និងទិន្នន័យ JSON ដែលមានចូលរួមទាំងអស់នេះ
#[put("/money/edit/{id}")]
async fn put_money(list_id: web::Path<i32>, input_data: web::Json<PostMoneyRequest>) -> HttpResponse {
    info!("put money by id");
    debug!("id: {} ↗", list_id);

    // គឺជាអំពីការបញ្ចូនទិន្នន័យ JSON ដែលមានចូលរួម ដើម្បីធ្វើការក្នុងការបញ្ចូនទិន្នន័យ
    let _editdata = input_data.into_inner();
    let id: i32 = list_id.to_string().parse().unwrap();

    // សម្រាប់បញ្ចូនទិន្នន័យ
    let mut _editdata_old = Moneylist {
        list_id: 3,
        description: "មេដឹក".to_string(),
        date: "2023-03-15".to_string(),
        amount: 100,
        types: "income".to_string(),
    }
```

RUST



Put edit money

នរណីការណ៍ ពេលវេលាដូចតួនៅ

```
1 {  
2   "user_data": {  
3     "id": 40956  
4   },  
5   "dataitem": {  
6     "description": "រាយរុបទសុប",  
7     "date": "2023-03-15",  
8     "amount": 1000,  
9     "types": "expenses"  
10    }  
11 }
```

Body

```
1 {  
2   "items_new": {  
3     "amount": 1000,  
4     "date": "2023-03-15",  
5     "description": "រាយរុបទសុប",  
6     "list_id": 9,  
7     "types": "expenses"  
8   },  
9   "items_old": {  
10    "amount": 0,  
11    "date": "1111",  
12    "description": "ឯកសារ",  
13    "list_id": 0,  
14    "types": "income"  
15  },  
16  "text": "ការកែតម្រូវការក្នុងការកែតម្រូវការ"  
17 }
```

```
PUT http://127.0.0.1:8080/money/edit/3
```

Params Auth Headers (8) Body Pre-req. Tests Settings

raw JSON

```
1 {  
2   "user_data": {  
3     "id": 40956  
4   },  
5   "dataitem": {  
6     "description": "រាយរុបទសុប",  
7     "date": "2023-03-15",  
8     "amount": 1000,  
9     "types": "expenses"  
10    }  
11 }
```

Body

200 OK 5 ms 426 B Save as Example

Pretty Raw Preview Visualize JSON

```
1 {  
2   "items_new": {  
3     "amount": 1000,  
4     "date": "2023-03-15",  
5     "description": "រាយរុបទសុប",  
6     "list_id": 3,  
7     "types": "expenses"  
8   },  
9   "items_old": {  
10    "amount": 100,  
11    "date": "2023-03-15",  
12    "description": "ឃើញ",  
13    "list_id": 3,  
14    "types": "income"  
15  },  
16  "text": "ការកែតម្រូវការក្នុងការកែតម្រូវការ"  
17 }
```



Delete money

នសិក្សា តាមការបញ្ជូនតម្លៃ



```
use actix_web::{delete, web, HttpResponse};
use log::{debug, info};
use serde_json::json;
use serde::{Deserialize, Serialize};
use crate::models::moneylist::*;

// សរាយ struct ใหม៖ ដើម្បីផ្តល់ព័ត៌មានទៅការសំឡេង
#[derive(Serialize, Deserialize)]
struct UserdataUpgate {
    id: i32,
}

// DELETE /money/delete/{id}: ឲ្យតួនាទីការបញ្ចូនតម្លៃ ដោយចាប់ពីលេខ list_id ដីរបស់
#[delete("/money/delete/{id}")]
async fn delete_money(list_id: web::Path<i32>, input_data: web::Json<UserdataUpgate>) -> HttpResponse {
    info!("delete money by list_id");
    debug!("list_id: {} ✘", list_id);

    // គាំទីការណ៍ ដើម្បីបញ្ចូនតម្លៃ (តាមការកែតាំង ឬធ្វើការក្នុង mut ឬតាម let)
    let _editdata = input_data.into_inner();
    let id: i32 = list_id.to_string().parse().unwrap();

    // សម្រាប់ការបញ្ចូនតម្លៃ ដើម្បីបញ្ចូនតម្លៃ
    let mut _data_old = Moneylist {
        list_id: 3,
        description: "មេដឹក".to_string(),
        date: "2023-03-15".to_string(),
        amount: 100,
        types: "income".to_string(),
    };

    // សម្រាប់ការបញ្ចូនតម្លៃ ដើម្បីបញ្ចូនតម្លៃ
    if id == 3 {
        debug!("DELETE {} ✘", list_id);
    } else { // សម្រាប់ការបញ្ចូនតម្លៃ ដើម្បីបញ្ចូនតម្លៃ
        debug!("none data list_id: {} ✘", list_id);
        _data_old = Moneylist {
            list_id: 0,
            description: "ឲ្យមើល".to_string(),
            date: "ឲ្យមើល-ឲ្យមើល-ឲ្យមើល".to_string(),
            amount: 0,
            types: "ឲ្យមើល".to_string(),
        };
    }
}
```

RUST



Delete money

លក់ប្រាកា តួបកាសបញ្ជីកតែង

keptang2 / delete

Save

DELETE http://127.0.0.1:8080/money/delete/9

Params Auth Headers (8) Body Pre-req. Tests Settings

raw JSON

```
1 {  
2   "id": 40956  
3 }
```

Body

200 OK 6 ms 385 B

Pretty Raw Preview Visualize JSON

```
1 {  
2   "items": {  
3     "amount": 0,  
4     "date": "ឯកសារណ៍-ឯកសារណ៍-ឯកសារណ៍",  
5     "description": "ឯកសារណ៍",  
6     "list_id": 0,  
7     "types": "income"  
8   },  
9   "text": "ការរក្សាសម្រាប់អ្នកបានទេ"  
10 }
```

keptang2 / delete

Save

DELETE http://127.0.0.1:8080/money/delete/3

Params Auth Headers (8) Body Pre-req. Tests Settings

raw JSON

```
1 {  
2   "id": 40956  
3 }
```

Body

200 OK 6 ms 284 B

Pretty Raw Preview Visualize JSON

```
1 {  
2   "items": {  
3     "amount": 100,  
4     "date": "2023-03-15",  
5     "description": "ឃើម",  
6     "list_id": 3,  
7     "types": "income"  
8   },  
9   "text": "ការរក្សាសម្រាប់អ្នកបានទេ"  
10 }
```

ขั้นตอนการเชื่อมต่อ โดยใช้ JavaScript Fetch API Rust(Backend) <-> HTML(Frontend)

สร้าง endpoint ของ API ในภาษา Rust ที่เขียนโดย actix_web ซึ่งจะรับ request และส่ง response กลับไปยัง frontend

ในหน้า HTML Frontend สร้างฟอร์มและปุ่มเพื่อเรียกใช้ API ด้วย JavaScript Fetch API

เมื่อผู้ใช้กดปุ่มเพื่อเรียกใช้ API ด้วย JavaScript Fetch API จะเรียก endpoint ของ API ในภาษา Rust ที่เขียนโดย actix_web ที่สร้างไว้ก่อนหน้านี้

endpoint ของ API ในภาษา Rust ที่เขียนโดย actix_web จะรับ request และดำเนินการตามที่ได้กำหนดไว้

เมื่อดำเนินการเสร็จสิ้น จะส่ง response กลับไปยัง frontend โดย JavaScript Fetch API จะจัดการ response และแสดงผลตามที่ได้กำหนดไว้

```

use actix_web::{get, post, web, App, HttpResponse, HttpServer, Responder};
use serde::{Deserialize, Serialize};

#[derive(Serialize, Deserialize)]
struct User {
    id: i32,
    name: String,
    email: String,
}

#[get("/users")]
async fn get_users() -> impl Responder {
    let user = User {
        id: 1,
        name: "John Doe".to_owned(),
        email: "john.doe@example.com".to_owned(),
    };
    HttpResponse::Ok().json(user)
}

#[post("/users")]
async fn add_user(user: web::Json<User>) -> impl Responder {
    HttpResponse::Created().json(user.0)
}

#[actix_web::main]
async fn main() -> std::io::Result<()> {
    HttpServer::new(|| App::new().service(get_users).service(add_user))
        .bind("127.0.0.1:8080")?
        .run()
        .await
}

```

```

<html>
<head>
    <meta charset="UTF-8">
    <title>Fetch API Example</title>
</head>
<body>
    <h1>Fetch API Example</h1>
    <button id="get-users-btn">Get Users</button>
    <button id="add-user-btn">Add User</button>
    <div id="result"></div>

    <script>
        const getUsers = async () => {
            const response = await fetch('http://localhost:8080/users');
            const data = await response.json();
            document.getElementById('result').innerHTML = `<p>${JSON.stringify(data)}</p>`;
        };

        const addUser = async () => {
            const user = { id: 2, name: "Jane Doe", email: "jane.doe@example.com" };
            const response = await fetch('http://localhost:8080/users', {
                method: 'POST',
                headers: {
                    'Content-Type': 'application/json'
                },
                body: JSON.stringify(user)
            });
            const data = await response.json();
            document.getElementById('result').innerHTML = `<p>${JSON.stringify(data)}</p>`;
        };

        document.getElementById('get-users-btn').addEventListener('click', getUsers);
        document.getElementById('add-user-btn').addEventListener('click', addUser);
    </script>
</body>
</html>

```

ขั้นตอนการเชื่อมต่อ API ของภาษา Rust ที่เขียนโดยใช้ Actix Web กับฐานข้อมูล MySQL ด้วย sqlx

เพิ่ม dependencies ของ sqlx และ mysql ในไฟล์ Cargo.toml

```
1 [dependencies]
2 actix-web = "4.0.0"
3 sqlx = { version = "0.5.8", features = ["mysql"] }
```

สร้าง API endpoint สำหรับเรียกข้อมูล user จาก MySQL โดยใช้ SQLx

```
1 #[get("/users")]
2 async fn get_users(pool: web::Data<MySqlPool>) -> impl Responder {
3     let users = sqlx::query!("SELECT * FROM users")
4         .fetch_all(pool.get_ref())
5         .await
6         .unwrap();
7
8     HttpResponse::Ok().json(users)
9 }
10
```

import dependencies ต่อ ๆ

```
1 use actix_web::{get, web, App, HttpResponse, HttpServer, Responder};
2 use sqlx::{mysql:: MySqlPool, Pool};
```

ขั้นตอนการเชื่อมต่อ API ของภาษา Rust ที่เขียนโดยใช้ Actix Web กับฐานข้อมูล MySQL ด้วย sqlx (ต่อ)

กำหนดการเชื่อมต่อ
MySQL โดยใช้ SQLx

```
● ● ●  
1 async fn establish_connection() -> MySqlPool {  
2     MySqlPool::connect("mysql://user:password@localhost/db_name").  
3     await.unwrap()  
4 }
```

กำหนด routes และ
start HTTP server

```
● ● ●  
1 #[actix_web::main]  
2 async fn main() -> std::io::Result<()> {  
3     let pool = establish_connection().await;  
4  
5     HttpServer::new(move || {  
6         App::new()  
7             .data(pool.clone())  
8             .service(get_users)  
9     })  
10    .bind("127.0.0.1:8080")?  
11    .run()  
12    .await  
13 }  
14 }
```

กลับไปเมนู

WANT YOU

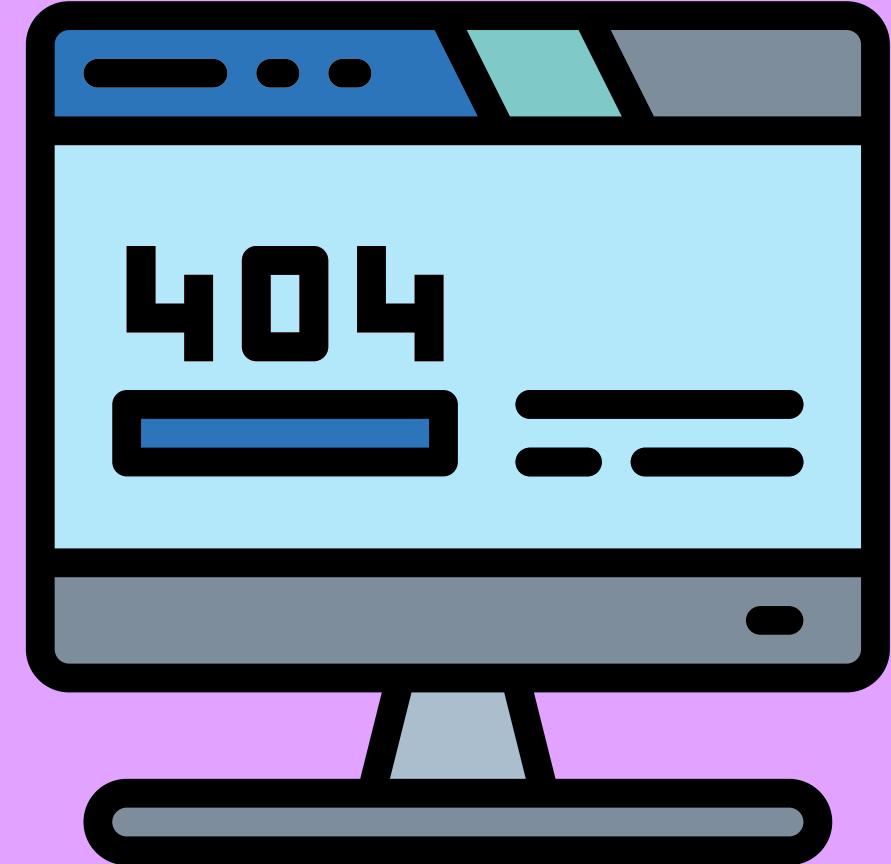
404

lost in space

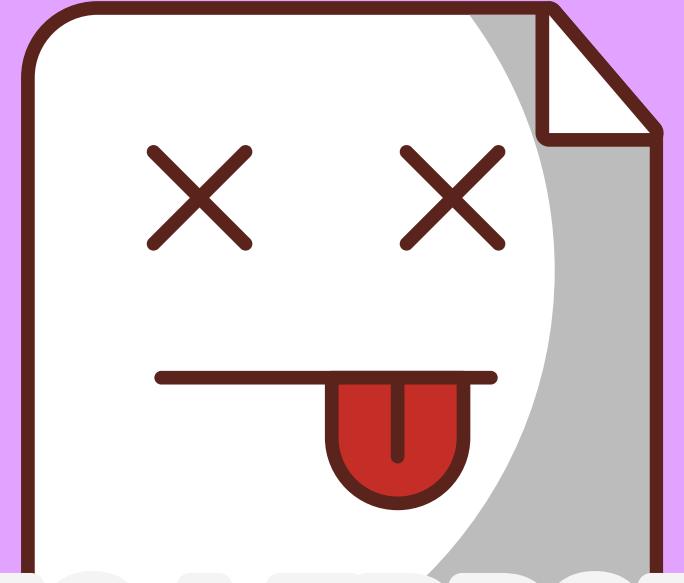
you have reached
the edge of the universe.



404 FOUND



404 ERROR PAGE NOT FOUND





ເບື່ອນຫວ້າຂ້ອຍຮືອ ແນວຄົດຂອງຄຸນ

1

ເພີ່ມສາරະສຳຄັລູ

ບຣຍາຍສັນ ၅ ເກື່ອງກັບສິ່ງທີ່ຄຸນຕ້ອງການພູດຄຸຍ

2

ເພີ່ມສາරະສຳຄັລູ

ບຣຍາຍສັນ ၅ ເກື່ອງກັບສິ່ງທີ່ຄຸນຕ້ອງການພູດຄຸຍ

3

ເພີ່ມສາරະສຳຄັລູ

ບຣຍາຍສັນ ၅ ເກື່ອງກັບສິ່ງທີ່ຄຸນຕ້ອງການພູດຄຸຍ

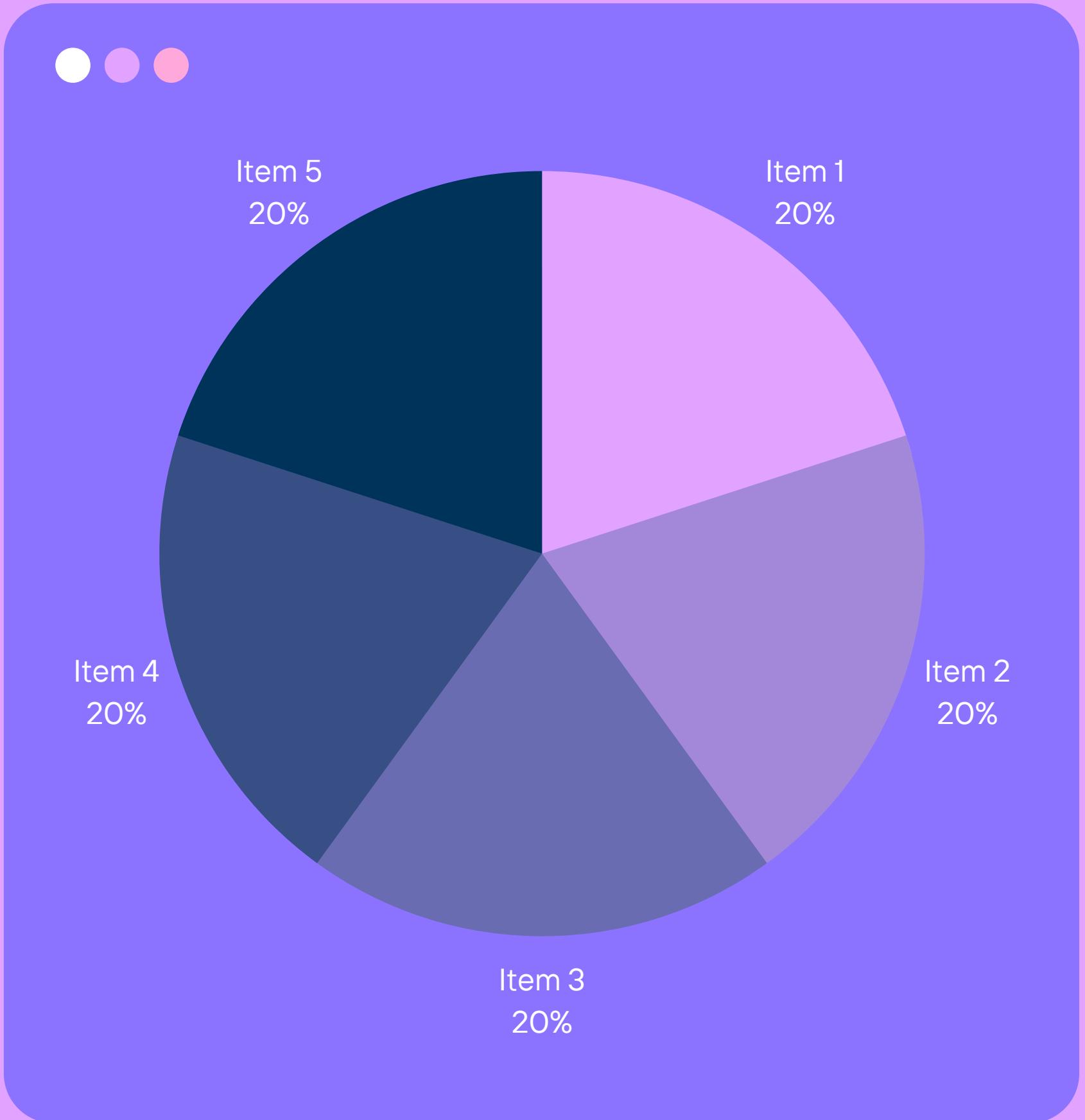
4

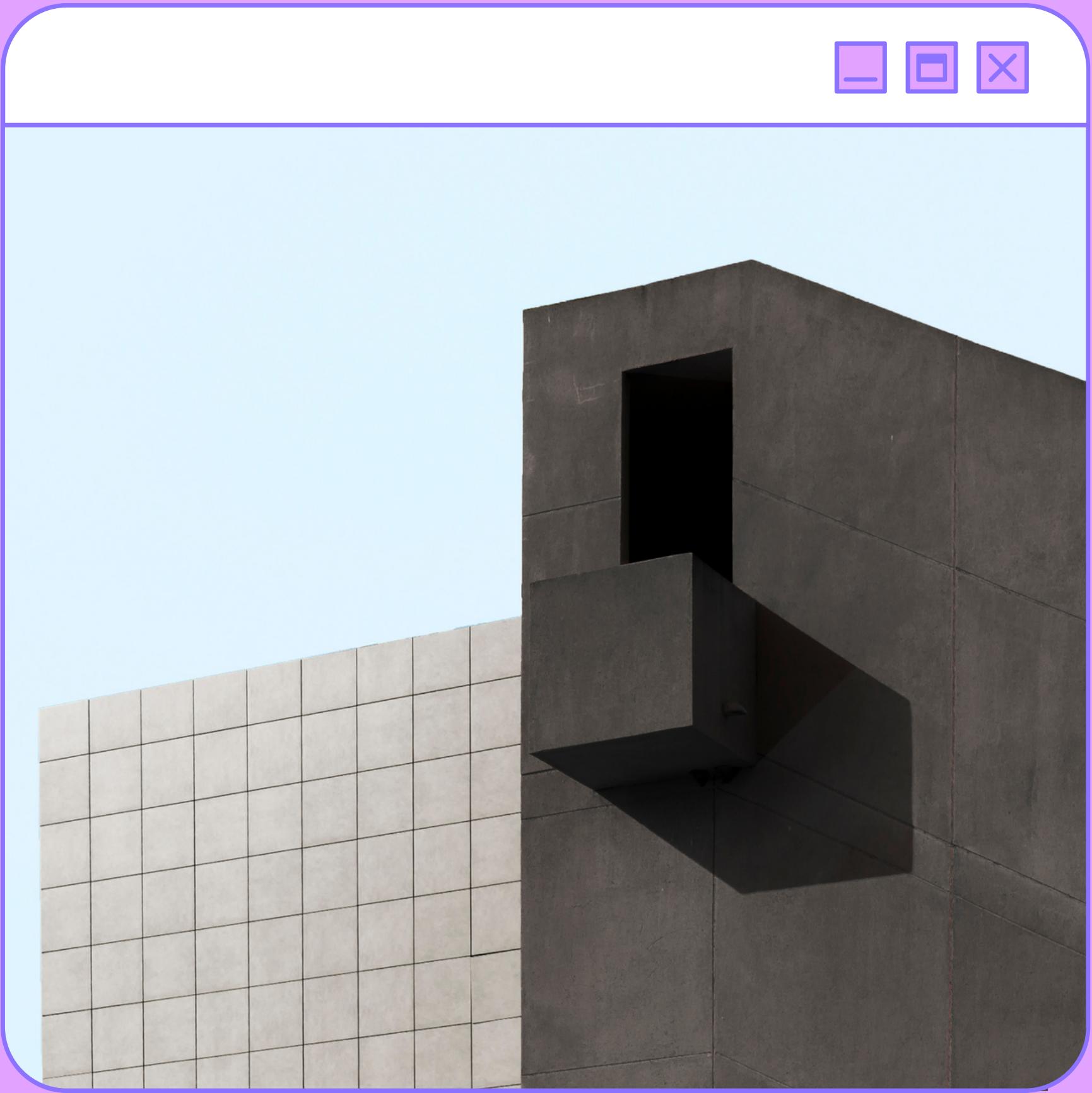
ເພີ່ມສາරະສຳຄັລູ

ບຣຍາຍສັນ ၅ ເກື່ອງກັບສິ່ງທີ່ຄຸນຕ້ອງການພູດຄຸຍ

ເບີຍນ້ຳວໜອກຮື່ອ ແນວຄິດຂອງຄຸນ

ປະຕາຍສັນ ຣ ເກື່ອງກັບ
ສິ່ງທີ່ຄຸນຕ້ອງການພູດຄູຍ





ເບື່ອນຫວ້າຂ້ອຍຮື້ອ ແນວຄິດຂອງຄຸນ

ປຣຍາຍສັນ ၅ ເກື່ອງກັບ
ສິ່ງທີ່ຄຸນຕ້ອງການພູດຄຸຍ

[ກລັບໄປໜ້າວະ](#)

