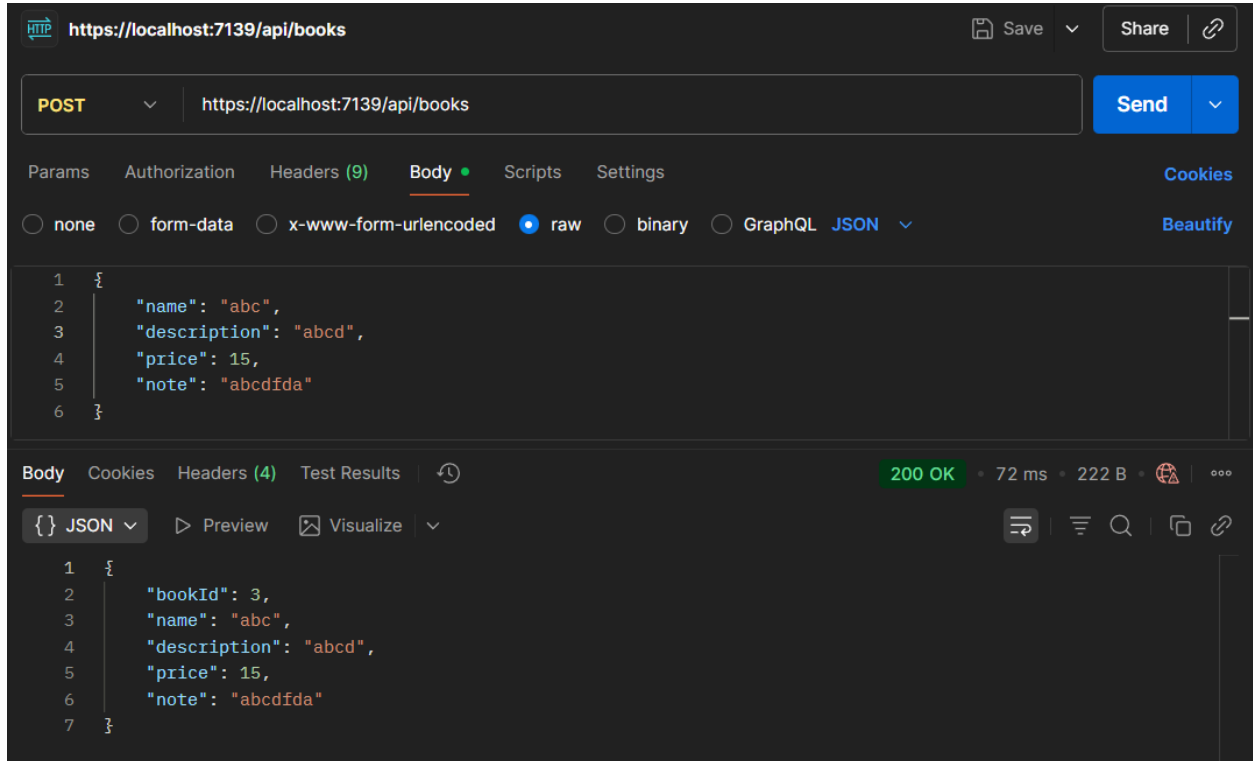


CSW430 – Lab 2 – Tran Vu Truong Huy – 2131200079

Q1. Build APIs using MVC Asp.net.

Create:



Get all:

HTTP <https://localhost:7139/api/books> Save Share

GET <https://localhost:7139/api/books> Send

Params Authorization Headers (9) Body Scripts Settings Cookies

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL JSON Beautify

```
1 {
2   "name": "abc",
3   "description": "abcd",
4   "price": 15,
5   "note": "abcdfda"
6 }
```

Body Cookies Headers (4) Test Results 200 OK • 36 ms • 383 B

{ } JSON Preview Visualize

```
6   "price": 15.00,
7   "note": "abcdfda"
8 },
9 {
10    "bookId": 2,
11    "name": "abc",
12    "description": "abcd",
13    "price": 15.00,
14    "note": "abcdfda"
15 },
16 {
17    "bookId": 3,
18    "name": "abc",
19    "description": "abcd",
20    "price": 15.00,
21    "note": "abcdfda"
22 }
23 ]
```

Edit:

HTTP <https://localhost:7139/api/books/2> Save Share

PUT <https://localhost:7139/api/books/2> Send

Params Authorization Headers (9) **Body** Scripts Settings Cookies

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL JSON Beautify

```
1 {
2   "name": "updateddddddd",
3   "description": "abcd",
4   "price": 15,
5   "note": "abcdfda"
6 }
```

Body Cookies Headers (4) Test Results 200 OK • 5.96 s • 231 B

{ } JSON Preview Visualize

```
1 {
2   "bookId": 2,
3   "name": "updateddddddd",
4   "description": "abcd",
5   "price": 15,
6   "note": "abcdfda"
7 }
```

Get by Id:

HTTP <https://localhost:7139/api/books/2> Save Share

GET <https://localhost:7139/api/books/2> Send

Params Authorization Headers (9) **Body** Scripts Settings Cookies

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL JSON Beautify

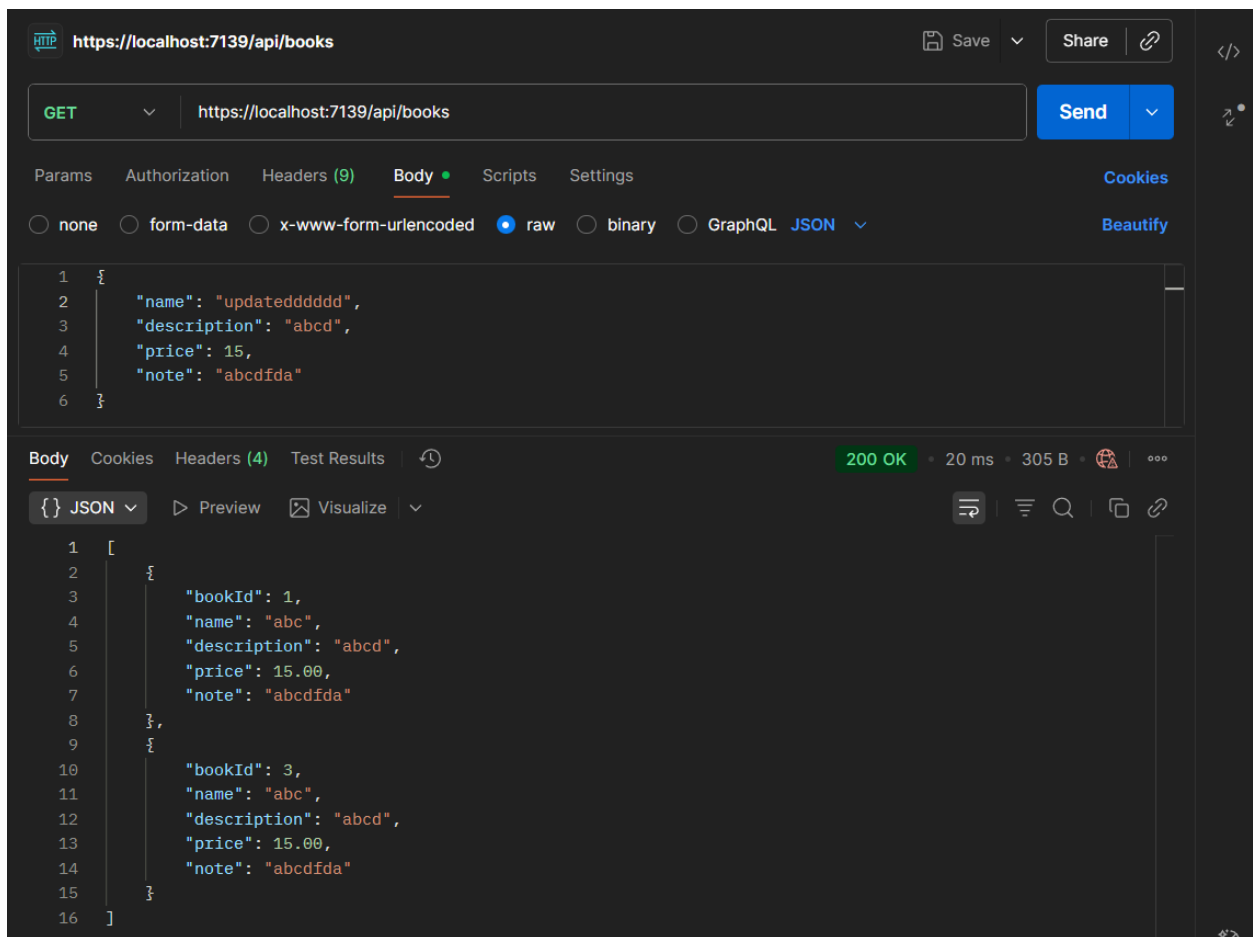
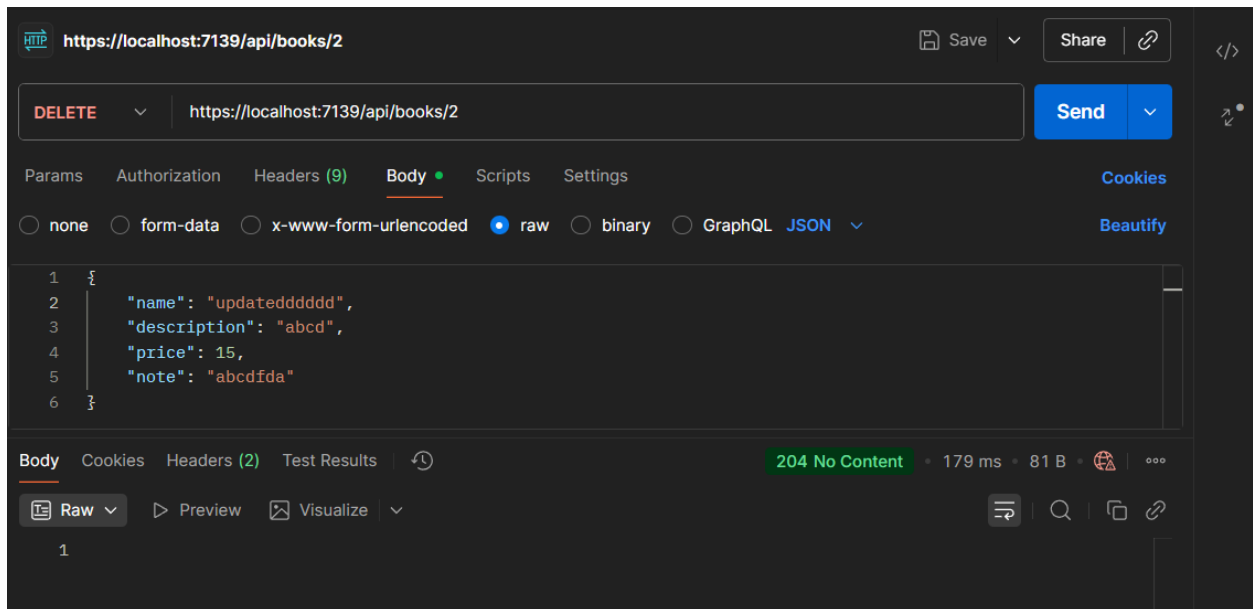
```
1 {
2   "name": "updateddddddd",
3   "description": "abcd",
4   "price": 15,
5   "note": "abcdfda"
6 }
```

Body Cookies Headers (4) Test Results 200 OK • 77 ms • 234 B

{ } JSON Preview Visualize

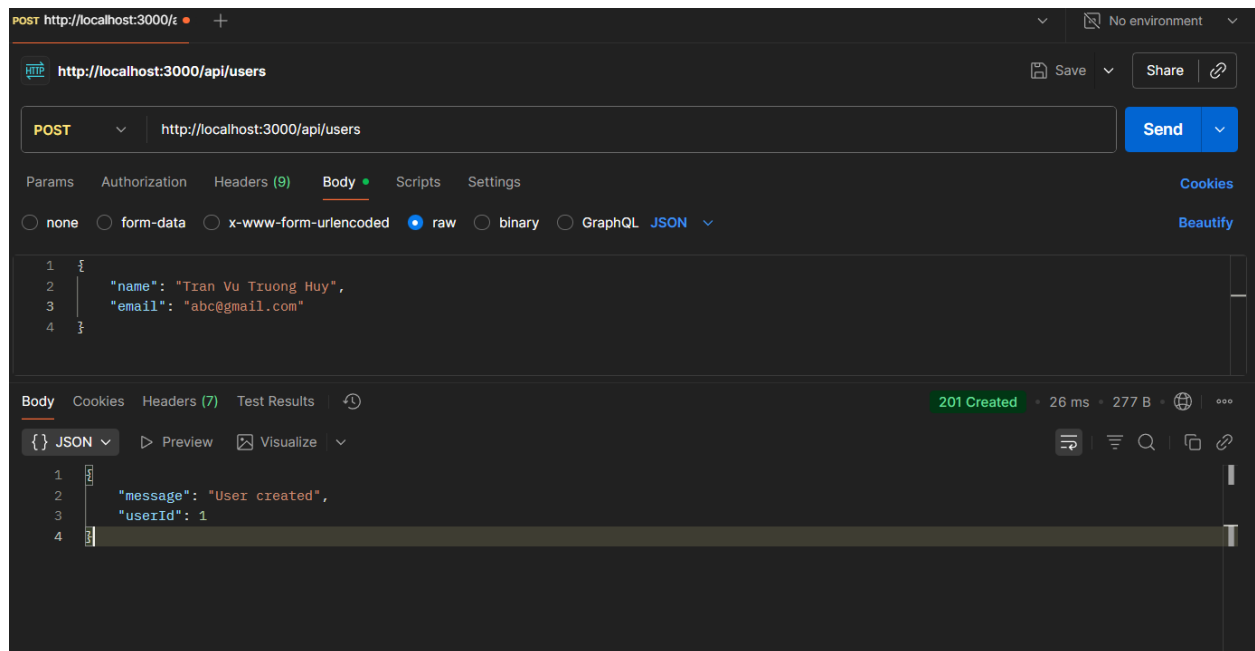
```
1 {
2   "bookId": 2,
3   "name": "updateddddddd",
4   "description": "abcd",
5   "price": 15.00,
6   "note": "abcdfda"
7 }
```

Delete:

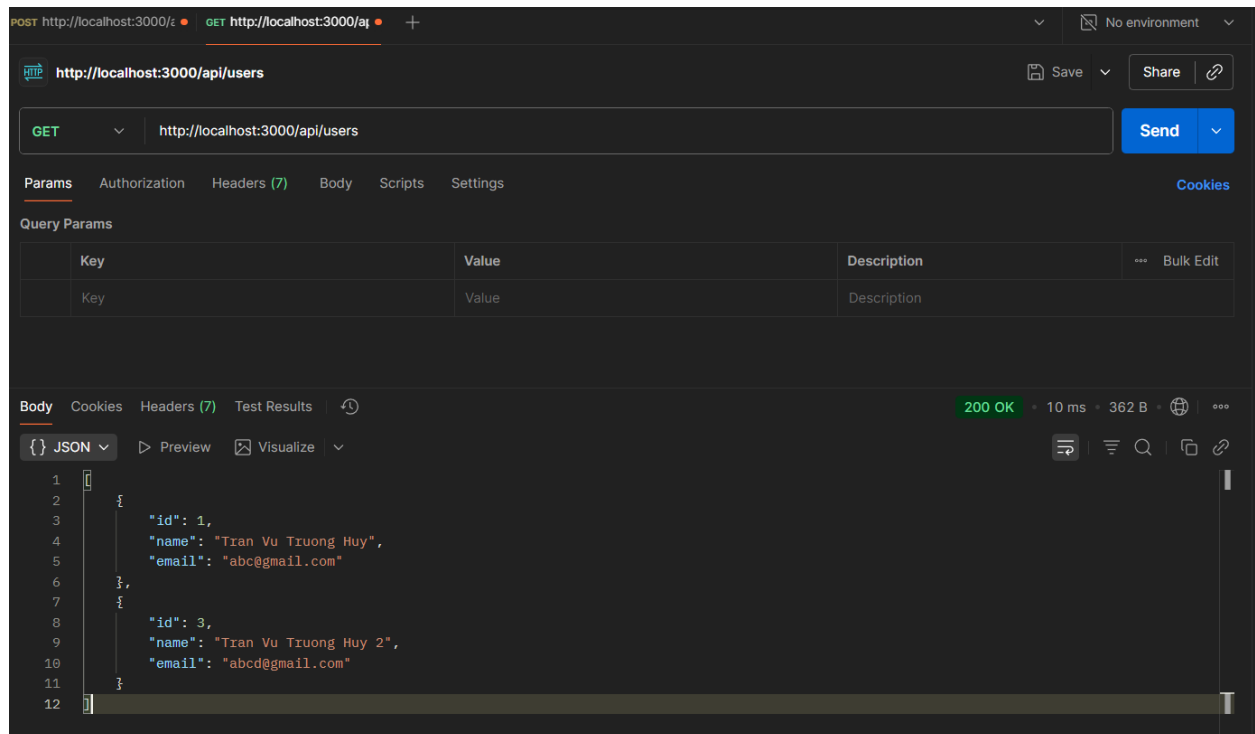


Q2. Build APIs using Node Js.

Create a new user (POST request):



Get all users (GET request):



Get a specific user by ID (GET request):

GET http://localhost:3000/api/users/1

Send

Params Authorization Headers (7) Body Scripts Settings Cookies

Query Params

Key	Value	Description	...	Bulk Edit
Key	Value	Description		

Body Cookies Headers (7) Test Results

200 OK • 13 ms • 295 B

JSON Preview Visualize

```
1 {
2   "id": 1,
3   "name": "Tran Vu Truong Huy",
4   "email": "abc@gmail.com"
5 }
```

Update a user by ID (PUT request):

PUT http://localhost:3000/api/users/1

Send

Params Authorization Headers (9) Body Scripts Settings Cookies Beautify

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

```
1 {
2   "name": "Tran Vu Truong Huy updated",
3   "email": "abc@gmail.com"
4 }
```

Body Cookies Headers (7) Test Results

200 OK • 26 ms • 261 B

JSON Preview Visualize

```
1 {
2   "message": "User updated"
3 }
```

Delete a user by ID (DELETE request):

DEL http://localhost:3000/api

No environment

http://localhost:3000/api/users/3

Save

Share

DELETE

http://localhost:3000/api/users/3

Send

Params

Authorization

Headers (7)

Body

Scripts

Settings

Cookies

☐ none

☐ form-data

☐ x-www-form-urlencoded

☒ raw

☐ binary

☐ GraphQL

JSON

Beautify

1 Ctrl+Alt+P to Ask AI

Body

Cookies

Headers (7)

Test Results

200 OK

23 ms

261 B

...

{ } JSON

Preview

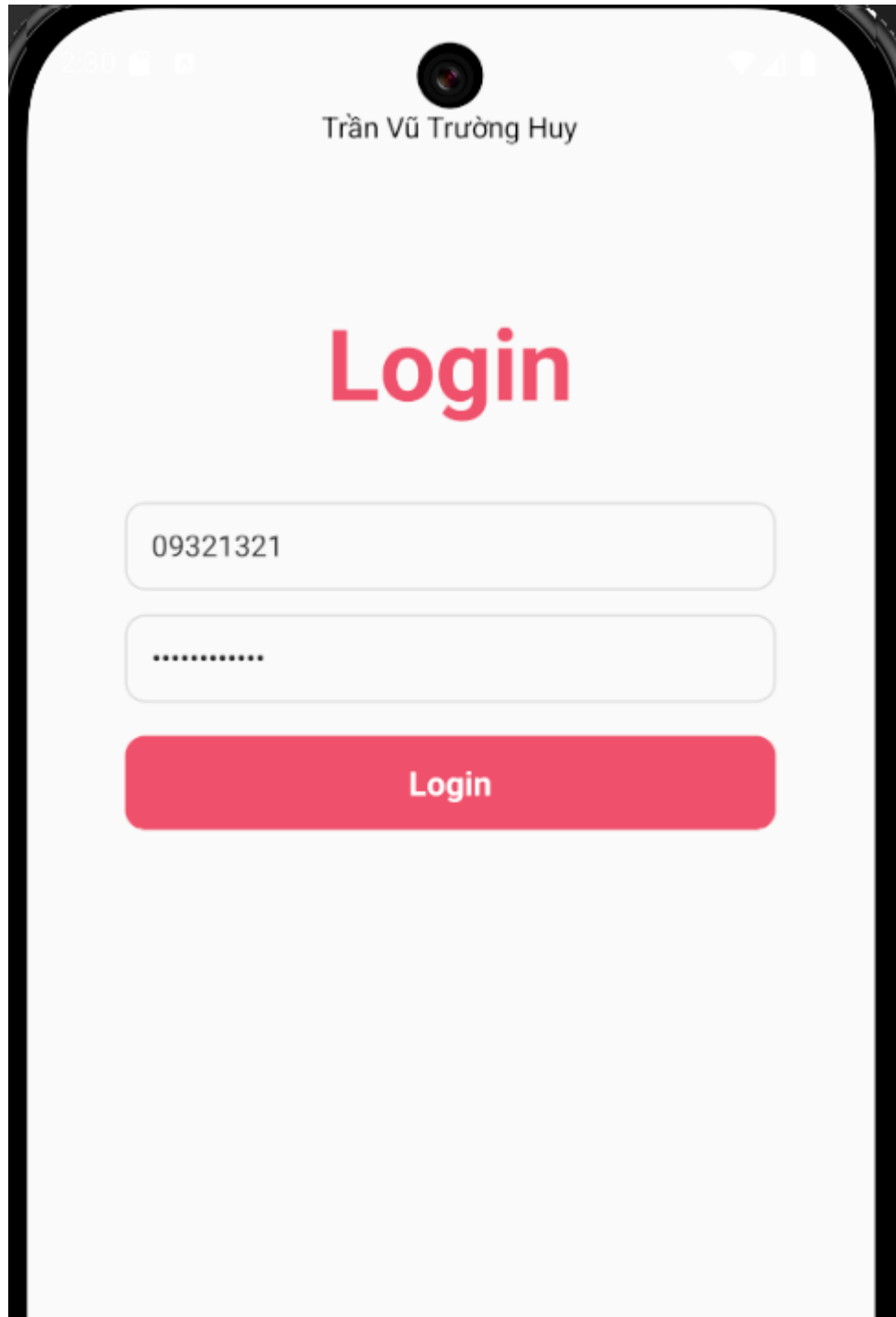
Visualize

1

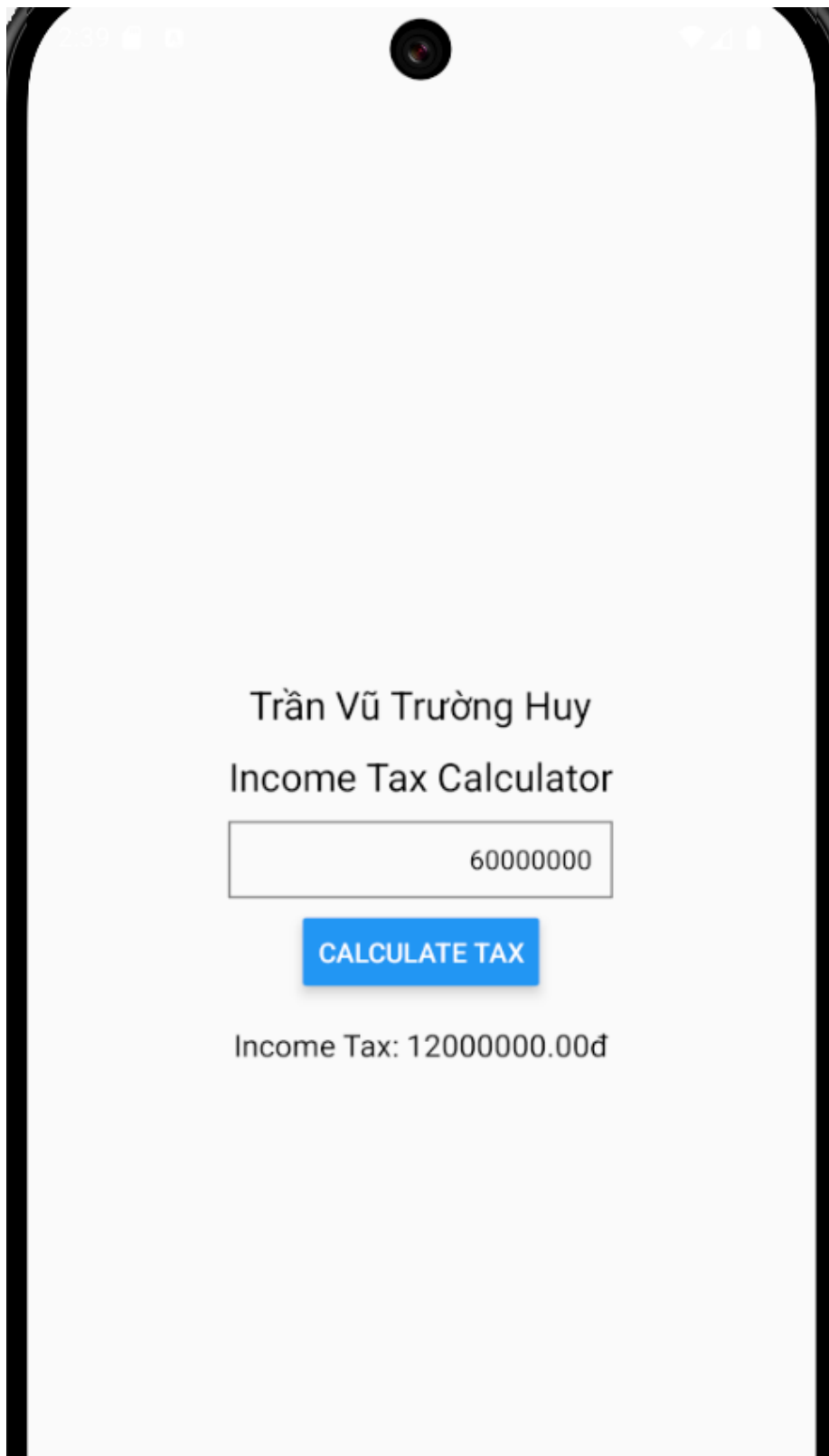
2 "message": "User deleted"

3

Q3. Login screen interface design.



Q4. Write the Personal Income Tax Calculation program as shown below.



The image shows a mobile application interface for a Personal Income Tax Calculator. The app is titled "Trần Vũ Trường Huy Income Tax Calculator". It features a text input field containing the number "60000000". Below the input field is a blue button labeled "CALCULATE TAX". The result of the calculation is displayed as "Income Tax: 12000000.00đ". The interface is presented within a smartphone frame with a notch at the top.

Trần Vũ Trường Huy
Income Tax Calculator

CALCULATE TAX

Income Tax: 12000000.00đ

Question 5. Caculator screen interface design

